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ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE 1 INVESTIGATION

Ramco:Steel

-Site No. 915046

Buffalo (C)

Erie County

DATE: July 1989



Prepared for:

New York State Department of Environmental Conservation

50 Wolf-Road, Albany, New York 12233 Thomas C. Jorling, Commissioner

Division of Hazardous Waste Remediation Michael J. O'Toole, Jr. P.E., *Director*

BY:

Recra Environmental, Inc. and Lawler, Matusky, & Skelly Engineers ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK PHASE I INVESTIGATION

Ramco Steel City of Buffalo, Erie County NYSDEC I.D. No. 915046

Prepared For:

DIVISION OF HAZARDOUS WASTE REMEDIATION
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
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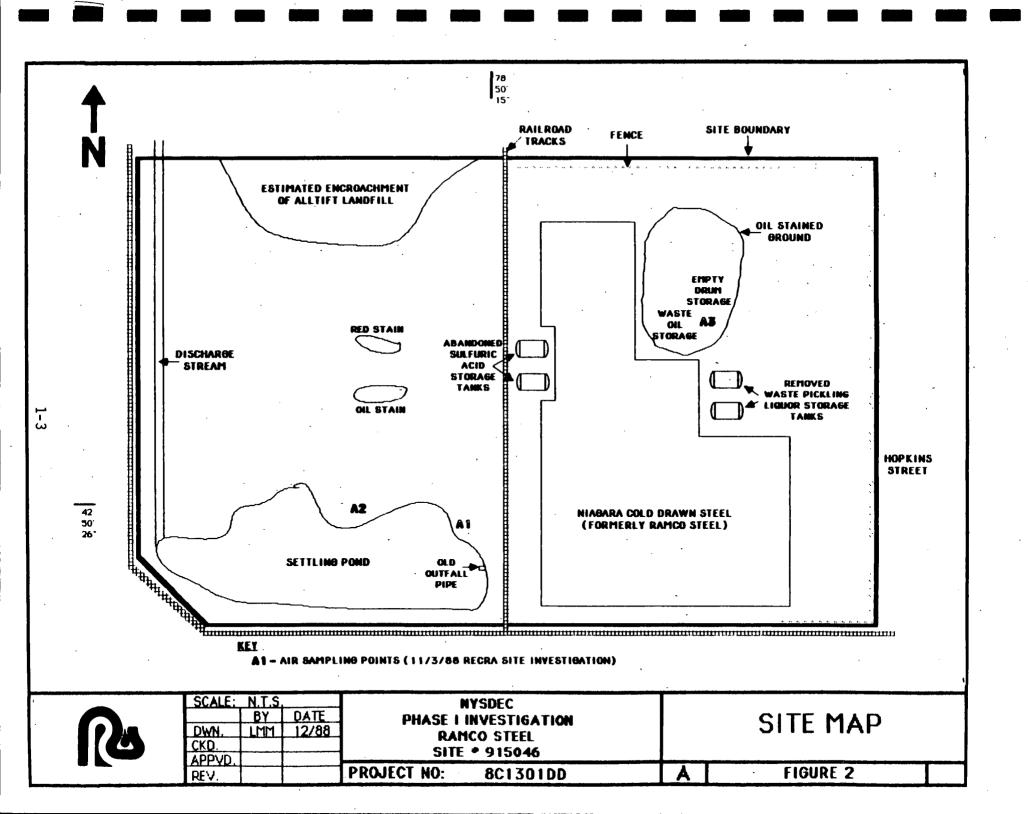
1.0 EXECUTIVE SUMMARY

The 17-acre Ramco Steel site (NYSDEC #915046) is located at 110 Hopkins Street, Buffalo, Erie County, New York (Figure 1). The site consists mainly of an inactive 5-acre settling pond and a currently active 160,000 square foot steel processing facility (Figure 2). The processing facility has been utilized for finishing hot rolled steel from 1929 to the present. The settling pond was utilized from 1929 to 1979 for the direct disposal of waste pickling acid and rinse waters generated at the operating facility. In 1978, sodium hydroxide was added to the settling pond to neutralize its acidic condition, resulting in the precipitation of visible metallic hydroxide sludges to the bottom of the pond. The pond drains through an open channel to adjacent ponds and wetland areas which drain into Lake Erie.

Ramco Steel purchased the site in 1972 from Bliss and Laughlin, the original owners and operators, and operated the facility until 1986. Discharge of pickling acid and rinsewaters into the settling pond was discontinued in 1979. In 1986, the site was subdivided with the operating facility being purchased by Niagara Cold Drawn Steel and the inactive settling pond being obtained by Hopkins-Tift Realty.

The Phase I effort included a compilation of information gathered from the New York State Department of Environmental Conservation (NYSDEC), the EPA Region II, and personnel associated with site operations. In addition, the performance of a site reconnaissance and air monitoring resulted in the development of a preliminary Hazard Ranking System (HRS) score.





USEPA uses a hazard ranking system (HRS) to apply uniform technical judgement in evaluating the relative hazards presented by sites being considered for federal superfund remediation. The HRS is sometimes called the MITRE Model because it was developed by the MITRE Corporation under contract to the USEPA. HRS addresses only relative hazard. It does not assess the feasibility, desireability, or degree of cleanup required, and does not address all potential environmental or health impacts.

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

- a. S_M , reflecting the potential for harm to humans or the environment from migration of a hazardous substance from the facility by groundwater, surface water or air. It is a composite of separate scores for each of the three routes.
- b. S_{FF}, reflecting the potential for harm for substances that can explode or cause fires.
- c. S_{DC}, reflecting the potential for harm from direct contact with hazar-dous substances at the facility.

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

$$S_m$$
 = 10.69 (S_{gw} = 3.40; S_{sw} = 18.49; S_a = 0)
 S_{fe} = N. S.
 S_{dc} = 50.00

The available data utilized in this Phase I Investigation is considered inadequate for a proper site assessment and suggest a need for additional data gathering and evaluation. These activities should involve further examination of surrounding NYSDEC inactive hazardous waste sites, subsurface investigation, monitoring well installation, and sampling and analysis.

2.0 PURPOSE

The objective of this Phase I investigation is to provide a preliminary characterization of the hazardous substances present at the Ramco Steel site, to estimate pathways by which pollutants might be migrating from the site, to determine if population or resources might be affected by pollutants from the site, to determine how the disposal area was used or operated, and to gather information regarding responsibility for possible site wastes.

These Phase I objectives were met through the following activities:

- o Identification of the environmental data needed to determine if the site poses a significant threat to the environment.
- o Site inspection and qualitative air monitoring with photoionization analyzer.
- o Collection and review of available data for preliminary scoring of the HRS.
- o Evaluation of existing data for completeness and identification of data inadequacies.
- o Preparation of a summary report.

The purpose of developing the 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.

TABLE 3-1

RAMCO STEEL

INFORMATIONAL CONTACTS

Date	Contact/Agency	Information Received
10/31/88	J. Tygert/NYSDEC (Buffalo)	Permission received to review NYSDEC files on Ramco
10/31/88	Raymond Rozansky/Niagara Cold Drawn Steel (V.P.)	Site ownership; Cessation of Pickling Operations; Ramco and NCDS waste disposal practices; site access requested.
11/16/88	Ben Conetta/EPA Region II	Will send copy of 12/84 Site Investigation Report; nothing else on file.
11/17/88	M _{r.} Wakilia/NYSDEC (Buffalo)	Alltift Phase I & II available for review of NYSDEC office.
11/17/88	Mr. Kuzzaja/Erie County Dept. of Health	Work done on-site and in-house infor- mation given to NYSDEC
11/22/88	Raymond Rozansky/Niagara Cold Drawn Steel (V.P.)	Ownership transferral dates; use of lime soln. instead of pickling liquor; current waste disposal practices; number of employees.
11/28/88	John Curtis/NYSDEC Fish & Wildlife (Buffalo) (Conservation Officer)	No critical habitats of endandered species near site.

3.0 SCOPE OF WORK

In order to allow an accurate characterization of the Ramco site, Recra Environmental, Inc. (Recra) personnel conducted an extensive search for literature and information regarding the site and site vicinity.

Site specific information was obtained from the NYSDEC Region 9 office at 600 Delaware Avenue, Buffalo, New York 14202 (telephone: 716-847-4585); telephone interviews with the Vice President of the current facility (Niagara Cold Drum Steel); U.S. EPA Region II files at 26 Federal Plaza, New York, New York 10278 (telephone: 212-264-6696); and other miscellaneous publications. Informational contacts are summarized in Table 3-1.

Site vicinity information was obtained through NYSDEC Region 9 and consisted of the Phase I and II report for the site immediately adjacent to the northern boundary of the site (i.e., Alltift Realty Site #915054).

In addition to the above mentioned activities, Recra personnel conducted an inspection of the site on November 3, 1988. The inspection was conducted so as to identify the present conditions at the site, including the condition of the operating facility and the settling pond. During the inspection, an air monitoring survey was performed utilizing a photoionization analyzer to determine the presence of volatile emissions.

4.0 SITE ASSESSMENT

4.1 Site History

The Ramco site, located at 110 Hopkins Street, Buffalo, New York (Figure 1) is currently subdivided, with the western section of the site (i.e., settling pond) being owned by Hopkins-Tift Realty, and the eastern section of the site (i.e., operating facility) being owned and operated by Niagara Cold Drawn Steel (NCDS). NCDS took possession of the operating facility in June of 1986 from the Ramco/Fitzsimmons Steel Company. The pond and adjacent property was purchased by Hopkins-Tift Realty in 1986 and is currently not utilized (Ref. 14, pg. R96). Ramco/Fitzsimmons Steel acquired the entire site in 1972 from Bliss and McLaughlin who originally obtained the property in 1929 (Ref. 16, pg. R111).The Ramco site, in its entirety, is approximately 17 acres in size (Figure 2).

The eastern portion of the property, currently owned by NCDS, is occupied by an approximate 160,000 square foot building which is used to process and finish steel. NCDS purchases hot rolled steel bars which are processed onsite in the following manner. Initially, the bars are run through a shot blaster to remove unwanted surface scale and defects; then the steel is soaked in a lime solution to prepare its surface for the final rolling and shaping operation. The cold rolling operation utilizes lubricating oil to allow proper shaping of the steel bars (Ref. 14, pg. R96).

The western portion of the property contains an approximate 5-acre settling pond which was used by Bliss and Laughlin and Ramco Steel until 1979 for the disposal of their spent pickling liquor and rinsewaters generated in the adjacent facility currently occupied by NCDS (Ref. 3, pg. R28; 14, pg.

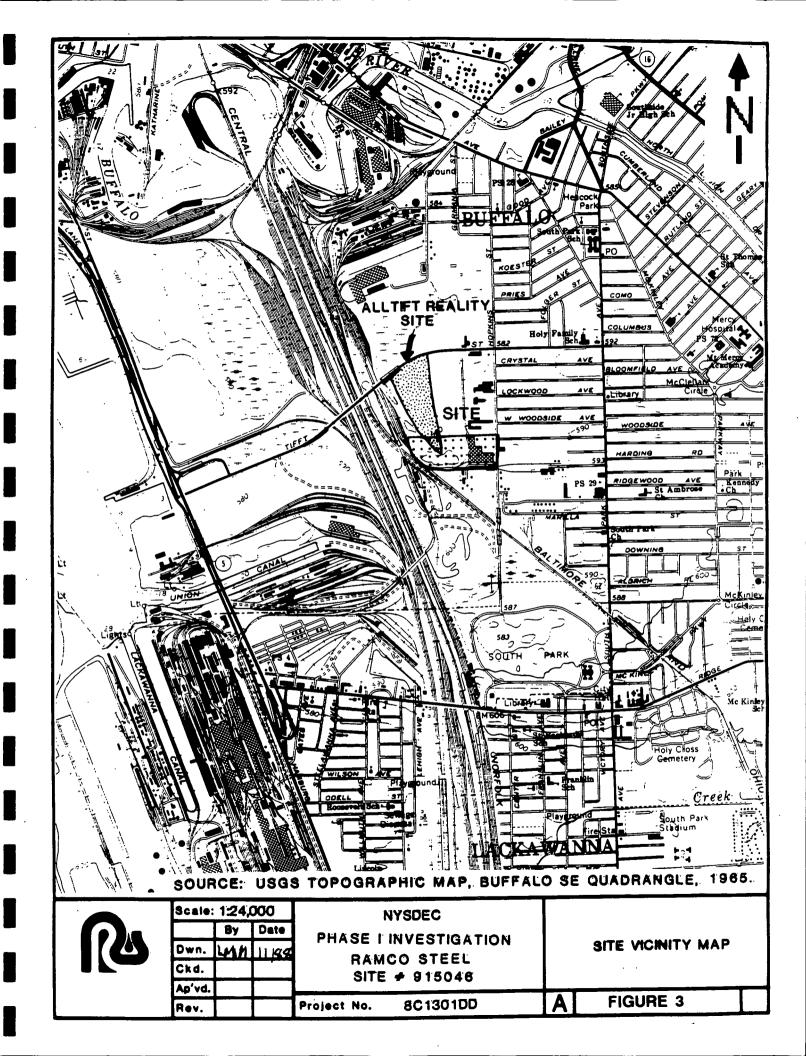
R96). The pickling liquor was utilized by these two previous firms for treating the surface of the hot-rolled steel prior to cold rolling. In 1978, sodium hydroxide was added to the pond to neutralize its acidic condition (Ref. 3, pg. R40). A visible red sludge resulting from the neutralization settled out to the bottom of the pond.

4.2 Site Characteristics

4.2.1 Environmental Settling

The Ramco Steel site is located in the southwestern part of the city of Buffalo, Erie County, New York (Figure 1). The approximate 17-acre rectangular-shaped site is located in a medium density industrial section of Buffalo, with commercial and residential developments interspersed to the east (Ref. 7, pg. R83). The Ramco Steel site is bordered to the north by the Alltift Landfill (NYSDEC Site #915054) whose borders actually encroach on the Ramco property (Figure 3). To the southwest of the site lies the Republic Steel hazardous waste site (NYSDEC Site #915047). In total, within approximately 0.5 miles of the site, six inactive hazardous waste sites have been identified (Ref. 2, pg. R17).

The Ramco Steel site's settling pond lies approximately 1,000 feet west of a New York State protected wetland designated BU-1 and approximately 0.5 miles north and west of designated wetlands BU-7 and BU-15. There are no critical habitats or endangered species located in the vicinity of the disposal area (Ref. 11, pg. R91) nor does the site lie within a 100-year or 500-year flood plain (Ref. 17, pg. R114).



4.2.2 Topography and Drainage

The topography of the Ramco Steel site can generally be characterized as flat. Surface features have been formed by glacial lakes ancestral to the present Lake Erie and urban/industrial development. Local slope, as determined from the USGS Buffalo, SE Topographic Quadrangle, is approximately 0-2% (Ref. 7, pg. R83). Surface and groundwater appear to flow in a north and northwest direction, respectively (Ref. 1, pg. R7). Thus, it appears that the potential hydrologic off-site migration of contaminants would be directed to the northwest adjacent wetlands which subsequently drain into Lake Erie.

4.3 Site Hydrogeology

The recent Phase II investigation of the adjacent Alltift Landfill (Site #915054) provides the basis for this overview of the Ramco site's hydrogeology/geology (Ref. 1, pg. Rl - R15). It appears that two wells have been installed (W-1, B-4) for the Alltift investigations which are either on the Ramco site or just adjacent to it (Ref. 1, pg. R2). Information from these wells provide the background for the following hydrogeological summary.

4.3.1 Geology

Bedrock beneath the site is anticipated to be a gray limestone or dark gray calcareous shale, of the Skaneateles Formation and is encountered at a depth of 10 to 15 feet. Overall thickness of this bedrock layer appears to vary between 0 and 15 feet, with a gradual dip to the west. It overlies dense black fissile shale of the Marcellus Formation.

Overlying the bedrock is a layer of sand/gravel/silt till which occurs intermittently in thickness. The till was deposited by glacial ice, and may be winnowed, sorted, or stratified in some parts by the action of the meltwater near the edge or beneath the glacier.

Overlying the till, or directly on bedrock in areas where the till is absent, a sequence of lacustrine deposits blanket the site. These fine-grained sediments were probably deposited in Lake Warren, the predecessor of Lake Erie. Much of the land surface along the eastern shore of Lake Erie is covered with these sediments.

The lacustrine sediments on the site are believed to be composed primarily of silt and fine sand with occasional clay layers. These deposits are estimated at 5 to 15 feet thick beneath the Ramco Steel site. Overlying these sediments, recent swamp-type organic silts are anticipated.

4.3.2 Groundwater and Surface Water

It appears that the pieziometric surfaces of upper and lower aquifers which were identified at the Alltift site become coincident in the northwestern portion of the Ramco site. This occurrence, coupled with the lack of an aquitard in the subsurface indicates a potential hydraulic connection between the saturated transmissive zones within the unconsolidated deposits and bedrock. Groundwater is anticipated at 0-7 feet below ground surface.

The elevation of the surface water in the settling pond is coincident with the inferred lower aquifer pieziometric surface. As identified at the Alltift site, this lower aquifer is situated in the upper part of the bedrock and overlying glacial till. The possible lack of an aquitard beneath the pond suggests a connection between the pond water and lower

aquifer.

Groundwater flow is assumed to be in a northwest direction. Discharges from the settling pond appear to be directed northward through a series of drainage channels and linked ponds. Flow rates within these swamp-like ponds is believed to be slow.

4.4 Site Contamination Assessment

4.4.1 Waste Quantity and Type

The settling pond on the Ramco Steel site was used from 1929 to 1979 for the disposal of approximately 75,000 gallons/year of spent pickling liquor and approximately 6,000,000 gallons/year rinse water (Ref. 5, pg. R73). Waste solutions were piped directly from the adjacent steel pickling and processing facility to the pond (Ref. 3, pg. R33). It is estimated that approximately 3.75 million gallons of spent pickling liquor and 300 million gallons of rinse water were discharged into the pond. Spent sulfuric acid pickling solutions contain free acid, ferrous sulfate, dissolved scale and dirt, and trace metals. Iron concentration in waste pickle liquor is about 70,000 mg per liter (Ref. 18, pg. R116).

In 1978, the pond's acidic pH was neutralized using sodium hydroxide, which resulted in precipitation of metallic hydroxides to the bottom of the pond. It has been estimated that the pond currently contains approximately 1,344 cubic yards of metallic hydroxide sludge (Ref. 3, pg. R49).

Additionally, site inspections have noted oil stained ground around the processing facility (Ref. 3, pg. R31,34; 6, pg. R77, 78). There is no available estimate for the quantity of lubricating oils that were

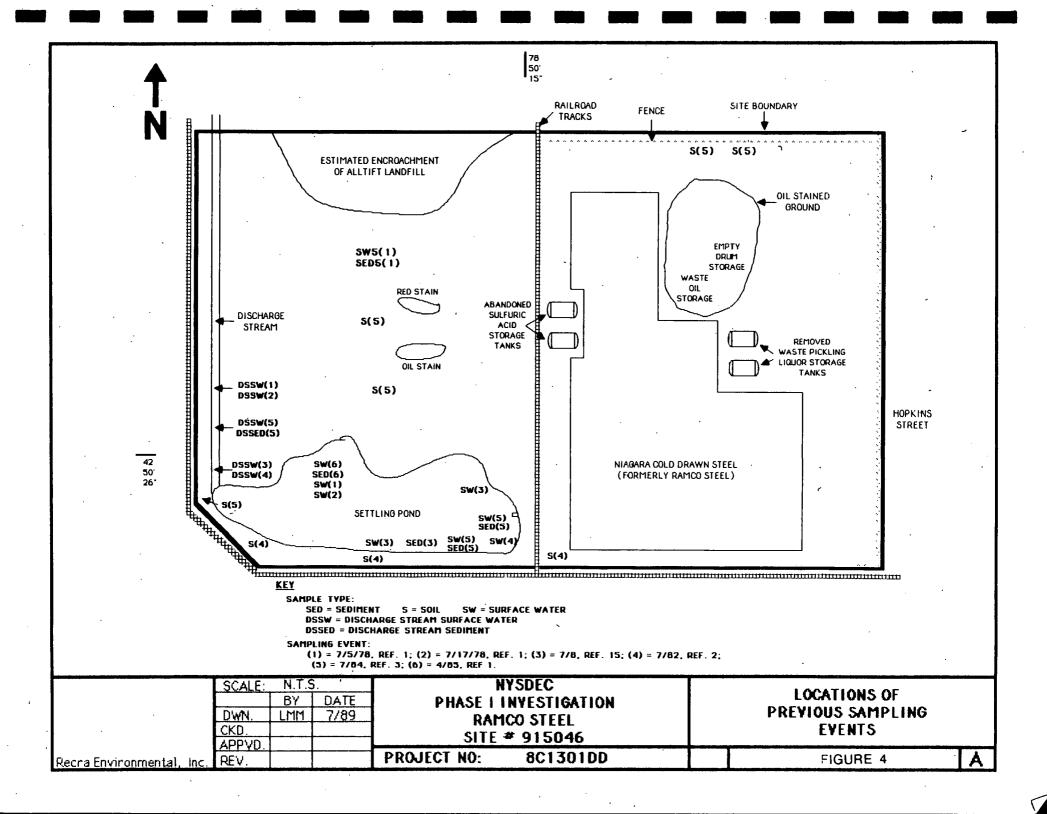
discharged to the ground surface.

4.4.2 Previous Sampling and Analysis

Previous sampling of the Ramco Steel site has been conducted as follows:

<u>Date</u>	Responsible Agenc	y Reason	Sampling Area	<u>Ref.#</u>
7/5/78	Recra Research	Preliminary eval- uation of Altifft Landfill	Pond water Discharge channel water	1,pg.R10
7/17/78	Recra Research	Preliminary eval- uation of Altifft Landfill	Pond water Discharge channel water	1,pg.R10
7/81	Erie County Dept. of Environmental Protection	Preliminary eval- uation of Ramco Steel	Pond Water Pond Sediment Discharge channel water	15,pg. R101-110
7/82	United States Geological Survey	Preliminary eval- uation of Ramco Steel	Pond water Discharge channel water Soil around pond	2,pg. R18, R19
7/84	NUS Corporation	EPA Site Investi- gation of Ramco Steel	Soil around site Pond Water Pond Sediment Discharge channel water Discharge storm sediment	3,pg. R49,R53
4/85 (6/86)	Dames & Moore	Phase II Investi- gation of Alltift Landfill	Pond Water Pond Sediment	1,pg.R9, R12

Analytical results from these sampling events are presented in Tables 4-1 through 4-5. Locations of collections of these samples are depicted in Figure 4.



4.4.3 Groundwater Quality

An upgradient monitoring well (B4) was installed as part of the previous environmental investigations performed at the Alltift Landfill, which is located adjacent to and apparently encroaching on the Ramco Steel site. This well (B4) appears to be situated on the Ramco site in a location hydraulically downgradient of the settling pond. Samples obtained from well B4 in 1978 indicate the presence of aluminum at 240 ppb, copper at 15 ppb, and iron at 5,080 ppb (Ref. 1, pg. R8). The presence of these contaminants can not be attributed solely to the Ramco site because upgradient groundwater wells on the Republic Steel site also exhibit various levels of these contaminants (Ref. 2, pg. R23-25).

4.4.4 Surface Water Quality

As delineated in Section 4.4.2, surface water samples of the settling pond and discharge stream were collected and analyzed in 1978, 1981, 1982, 1984 and 1985. The 1978 and 1985 sampling events were conducted in conjuntion with the Alltift Landfill investigations (Ref. 1, pg. R9,R11). Analysis of the settling pond's surface water during these years indicated the presence of aluminum (0.03-4.91 ppm), copper (1.00-6.89 ppm), iron (1.4-2,030 ppm), lead (0.13-0.51 ppm), manganese (0.63-2.6 ppm), and phenol (0.034-0.040 ppm) (Table 4-1) (Ref. 1, pg. R10).

TABLE 4-1

SUMMARY OF SAMPLING AND ANALYSIS PREVIOUSLY PERFORMED
AT THE RAMCO STEEL SITE
Settling Pond Water (sw)
(results in ppm)

PARAMETER	7/5/78	7/17/78	REPORT DATE		7/82	Ì	7/84	j	4/85
			South	East		SW-1	SW-2	SW-3	S-1
Aluminum Arsenic	2.92 0.089	4.91 0.094					,	0.026	
Cadmium Chromium	0.763	0.834	0.004 0.01	ND ND	0.001	0.001	0.001	0.001	
Copper Iron	6.89 1,832	1.00 2,030	0.03 85.12	0.02 1.92	0.019 7.4	8.6	1.8	49.5	1.4
Lead Manganese	0.42	0.51	0.13	0.02	0.006	0.006 2.6	0.15	1.69	0.63
Magnesium Nickel			0.07	ND			0.066		24
Phenols Selenium	0.034	0.040						0.014	
Zinc pH		•	0.56 2.6	0.05 6.4	• .	÷			0.03

Aluminum (0.4-4.87 ppm), chromium (0.75-0.874 ppm), copper (1.30-1.71 ppm), iron (4.39-1.117 ppm), lead (0.18-0.51 ppm), manganese (1.54 ppm) and phenol (0.036-0.039 ppm) were also found in the discharge stream eminating from the settling pond (Table 4-2)(Ref 1, pg. R11; 2, pg. R19; 3, pg. R53; 15, pg. R101-107).

4.4.5 Soil Quality

Evaluation of surface soils north of the operating steel processing facility indicated the presence of elevated levels of cadmium (2.5-13.2 ppm), chromium (304 ppm), vanadium (144 ppm), zinc (2,100-24,400 ppm), (PCBs [PCB 1254 (62 ppm) and PCB 1260 (123 ppm)]), phenanthrene (1.4-4.1 ppm), benzo(a)fluoranthene (2.8-5.4 ppm) and chrysene (0.5-1.6 ppm) (Table 4-3) were detected in one soil sample taken from north of the operating facility. Recorded concentrations exceed cleanup levels (25 ppm) as delineated in the USEPA "TSCA-PCB Cleanup Policy".

To the west of the operating facility (i.e., north of settling pond), concentrations of arsenic (42-92 ppm), cadmium (2.8 ppm), chromium (533 ppm), cobalt (35-61 ppm), copper (670-770 ppm), iron (270,000-680,000 ppm), and lead (2,680 ppm) were evident in levels exceeding those typically found in "non-contaminated" soils (see Table 4-3).

West of the settling pond, cadmium (1.7 ppm), iron (108,000 ppm), lead (2,680 ppm), phenanthrene (0.2 ppm), and chrysene (0.26 ppm), were detected in the soil (see Table 4-3).

TABLE 4-2

SUMMARY OF SAMPLING AND ANALYSIS PREVIOUSLY PERFORMED
AT THE RAMCO STEEL SITE
Discharge Stream Samples (DS SW)
(results in ppm)

DADAMETER	REPORT DATE/SAMPLE LOCATION							
PARAMETER	7/5/78	7/17/78	7/81	7/82	7/84 SW-4			
Aluminum	2.64	4.87			0.4			
Arsenic	0.057	0.034						
Cadmium			0.004		0.001			
Chromium	0.751	0.874						
Copper	1.71	1.30	0.03	0.024				
Iron	1,144,000	1,770,000	80.07	17.0	4.39			
Lead	0.38	0.510	0.18	0.27				
Manganese		•			1.54			
Nickel			0.05	•				
Pheno1s	0.036	0.039						
рН			2.7					

TABLE 4-3 SUMMARY OF SAMPLING AND ANALYSIS PREVIOUSLY PERFORMED AT THE RAMCO STEEL SITE Soil Samples (s) (results in ppm)

PARAMETER	REPORT DATE/SAMPLE LOCATION 7/82 7/84								Range of Concentration Non-Contaminated	
PARAMETER	\$1	\$2 \$2	\$3	\$1	S2	\$3	\$4	\$5	Soils (1)(2)	
Aluminum Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Selenium Silver Thallium Tin Vanadium Zinc Phenanthrene Benzo(a) fluoranthene Chrysene Benzo(a)pyrene	10 21 6,500 30	- 6 6,500	3 53 9,360	\$1 69,600 2.4 12 59 - 13.2 304 11 92 74,000 175 - 8,020 42 2.4 2 144 24,400 4.1 5.4	\$2 1,000 2 3 53 - 2.5 21 9 25 15,900 71 - 420 14 2.4 2 - 84 16 2,100 1.4 2.8 0.5	2,670 2.7 42 26 - 2.8 332 35 770 270,000 2,680 - 2,220 610 1 2 - 25 19 107	1,360 2 30 104 - 1.7 40 6 68 108,000 240 - 607 24 1.3 - - 16 610 0.2 -	310 8 92 27 - 0.12 533 61 670 680,000 53 - 3,720 530 0.3 2 - 160 11	Soils (1)(2) 150,000-600,000 0.1-10 <40 1-1,000 <1 <1 trace-250 0.1-13 2-100 2-200 10,000-100,000 NA 20-30,000 3-1,000 1-10 15-50 <2 2-300 5-140 10-300	
PCB 1254 PCB 1260				-	62 123	- -	- ′	- -		

(1) <u>Handbook of Toxicology of Metals</u>, Friberg, L., et.al (1979). (2) <u>Applied Soil Trace Elements</u>, Davies (1980)

4.4.6 Settling Pond Sediment and Discharge Stream Sediment Quality

Previous sampling events did not record any levels of contaminants in the discharge stream's sediment which exceed typical "non-contaminated" soil/sediment concentrations (see Table 4-4).

Elevated levels of iron (199,000-300,000 ppm) and lead (216-600 ppm), magnesium (1,100 ppm), thallium (3.4 ppm), zinc (1,300 ppm), copper (130 ppm), cobalt (35 ppm), cadmium (2.4 ppm), phenanthrene (0.4-9.2 ppm), benzo(a)fluoranthene (4.3 ppm), and chrysene (2.1 ppm) were detected in the settling pond's sediment (see Table 4-5).

Cadmium (3 ppm), iron (499,000 ppm), phenanthrene (2.8 ppm), benzo(a)-fluoranthene (3.9 ppm), chrysene (1.4 ppm) and benzo(a)pyrene (2.1 ppm) were detected in the marshy area just south of the Alltift Landfill encroachment.

4.4.7 Air Quality

An air quality survey was conducted on November 3, 1988 by Recra and previously by NUS Corporation, in July 1984 and June 1985, with an HNu photoionization analyzer. Detectable levels of organic contaminants did not exceed 4 ppm above background during any of the surveys (Ref. 3, pg. R56; 6, pg. R76).

TABLE 4-4

SUMMARY OF SAMPLING AND ANALYSIS PREVIOUSLY PERFORMED AT THE RAMCO STEEL SITE Discharge Stream - Sediment (DSSed) (results in ppm)

PARAME TE R	REPORT DATE/SAMPLE LOCATION 7/84 Sed 4	Range of Concentration Non-Contaminated Soils (1)(2)
Aluminum Antimony Arsenic Barium Cadmium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Selenium Silver Thallium Tin Vanadium Zinc Phenanthrene Benzo(a)fluoranthene Chrysene Benzo(a)pyrene PCB 1254 PCB 1260	1,700 3.5 30 33 0.8 10 5 46 41,600 112 - 275 9.0 0.6 88 - 110 2.1 4.1 2.0 1.2 - 0.99	150,000-600,000 0.1-10 <40 1-1,000 trace-250 0.1-13 2-200 2-100 10,000-100,000 2-200 NA 20-30,000 3-1,000 1-10 15-50 <2 2-300 5-140 10-300

 ⁽¹⁾ Handbook of Toxicology of Metals, Friberg, L., et.al (1979).
 (2) Applied Soil Trace Elements, Davies (1980)

TABLE 4-5

SUMMARY OF SAMPLING AND ANALYSIS PREVIOUSLY PERFORMED AT THE RAMCO STEEL SITE Settling Pond Sediment Samples (Sed) (results in ppm)

		Range of Concentration				
PARAMETER	7/81	7/84			4/85	Non-Contaminated
· · · · · · · · · · · · · · · · · · ·	South	Sed 1	Sed 2	Sed 3	<u> </u>	Soils (1)(2)
Aluminum		2,140	31,200	470	2,200	150,000-600,000
Antimony		1.3	8.Ś	5		0.1-10
Arsenic		24.	33	38	6.7	<40
Barium		38	875	34	100	1-1,000
Cadmium	0.001	3 .	0.2	0.3	2.4	<1
Chromium	6.13	15	27	36	110	trace-250
Cobalt		5	9	8	35	0.1-13
Copper	1.90	27 ·	65	52	130	2-200
Iron	3,100	499,000	46,700	199,000	300,000	10,000-100,000
Lead	5.84	101	46	216	600	2-200
Magnesium		-	· _	-	1,100	NA
Manganese		316	3,090	324	2,300	20-30,000
Nickel	0.51	14	_	15 ·	50	3-1,000
Selenium	•	0.3	4.0	4.0	1.9	1-10
Silver		_	2.0	0.9	2.1	15-50
Thallium		-	- ,	-	3.4	<2
Tin		18	290	110	10	2-300
Vanadium		-	-		41	5-140
Zinc	92.50	140	67	190	1,300	10-300
Phenanthrene		2.8	0.4	. 9.2		
Benzo(a)	•	3.9	4.3	-		
fluoranthene						·
Chrysene		1.4	2.1	- .		
Benzo(a)pyrene		2.1	-	-		
PCB 1254		-	0.14	-		
PCB 1260	,	-	-	-		
						<u></u>

(1) Handbook of Toxicology of Metals, Friberg, L., et.al (1979). (2) Applied Soil Trace Elements, Davies (1980)

î

Narrative

5.0 PRELIMINARY APPLICATION OF THE HAZARD RANKING SYSTEM

5.1 Narrative

The approximate 17 acre Ramco Steel site consists of an approximate 5 acre inactive settling pond and a 160,000 square foot active steel processing facility. The site is located at 110 Hopkins Street in the southwest part of the city of Buffalo, Erie County, New York. The operating process facility is currently owned and operated by Niagara Cold Drawn Steel. The inactive settling pond is owned by Hopkins-Tift Realty. Prior to their ownership, the entire site was owned by Bliss and McLaughlin and subsequently Ramco/Fitzsimmons Steel for the pickling and processing of steel. During their ownership, for approximately 50 years, spent pickling liquor and wastewater were discharged directly to the settling pond. In 1978, the pond was neutralized with sodium hydroxide, resulting in the precipitation of heavy metals to the bottom of the pond. In addition, spills of lubricating oil and subsequent soil contamination were noted at the site.

Contamination of the surface water, sediments and soils was detected during previous sampling events and investigations. Several heavy metals were noted in the surface water at levels which exceeded NYSDEC standards. Sediment and soil samples were noted as containing several heavy metals and organic compounds. One soil sample taken from the north of the operating facility indicated the presence of PCB's (62 + 123 ppm) which exceeded cleanup levels (25 ppm) as delineated in the USEPA "TSCA-PCB Cleanup Policy Final Rule", 52FR 10688, 40 CFR, Part 761.

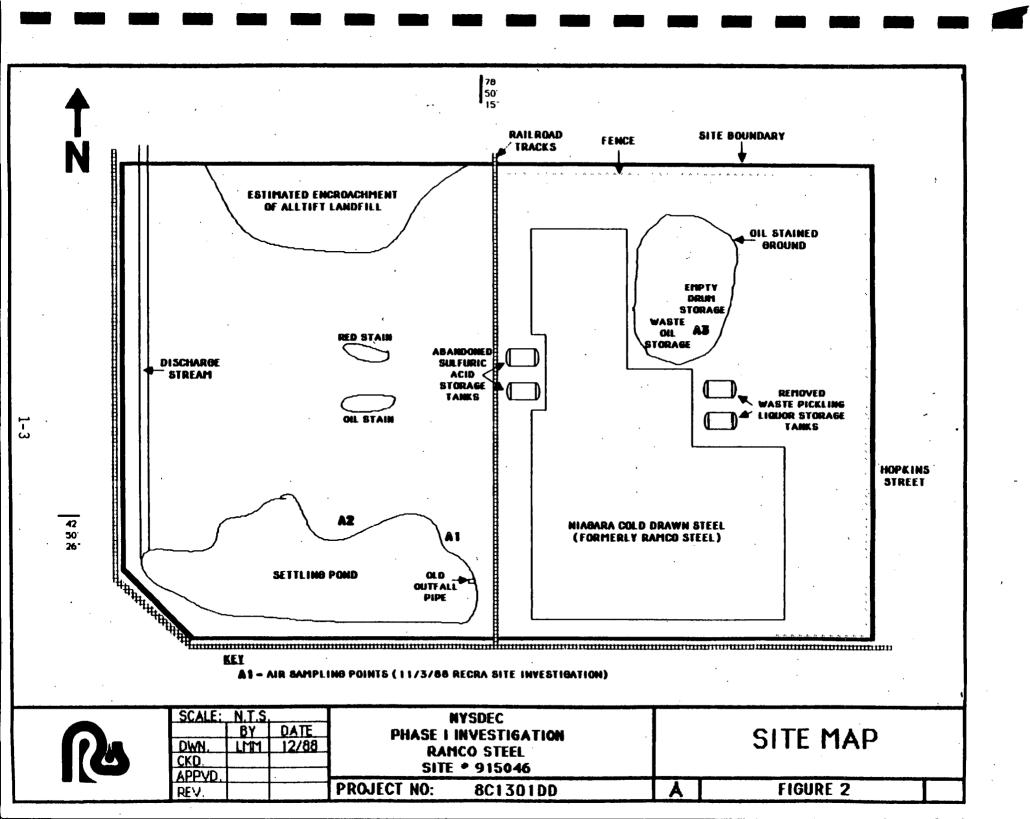
Approximately 5,000 people live within one mile of the site, however, there is no apparent utilization of the surface water or groundwater for water supplies within this region (Ref. 8). City of Buffalo's water intakes are approximately 5 miles away on Lake Erie.

The site is adjacent to part of a large NYS recognized wetland, which provides a habitat for local and migratory wildlife. However, it is not a critical habitat for endangered species.

5.2 Site Location

The Ramco Steel site is located at 110 Hopkins Street in the southwest part of the City of Buffalo, Erie County, New York (Figures 1 and 2).





Facility	name:	Ramco St	eel ·						
Location	110 H	opkins S	treet, Bui	ffalo,	New York	· · · ·			
EPA Regi	on:	II			· · · · · · · · · · · · · · · · · · ·				
Person(s) in charc	ge of the	facility:	<u>Facil</u>	ity: Niaga	ra Col	<u>d Drawn</u>	Stee1	(NCDS)
					Ray R	ozansk	y - Vic	e Pres	ident
				Sett1	ing Pond:	Hopkin	s-Tift	Realty	
Name of	Reviewer	Line	da Michalo	zak	D	ate: _	12/7/8	8	·
General o (For exar hazardou concern;	nple: lan Is substai	dfill, sur ices: loc	rface imp ation of t	oundme	ent, pile, o ility; cont rating; ag	contair aminai ency a	ner; typ tion ro action;	pes of ute of etc.	major
of waste point the point sludges a	ted in the pickling nd were p t the bot o an adja	e westerr liquor fr recipitat tom of th cent wetl	n portion rom 1929 t ced out us ne pond. land and i	of the o 1979 ing Na(The por	/. A 5-act site was t In 1978 OH, leaving nd drains t believed t	used fo , metal g metal through	or the dis in solid his high an income of the distribution of the	disposa olutior droxide en	11 /
				,					
					·				
Scores:	s _M =	10.69	(s _{gw} =	3.40	S _{SW} = 18	3.49	s _a =	0)
	SFE =	NS							
	s _{DC} =	50.00			,				
			•						•

FIGURE 1 HRS COVER SHEET

Ground Water Route Work Sheet								
	Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)		
1	Observed Release	0 45	1	0	45	3.1		
		given a score of 45, proceed		=				
\vdash	il observed release is	given a score of 0, proceed t	to line 2	<u>-</u>				
2	Route Characteristics					3.2		
	Depth to Aquifer of Concern	0 1 2 3	2	6	6	•		
	Net Precipitation	0 1 2 3	1 .	2	3			
	Permeability of the Unsaturated Zone	0 1 2 3	1.	2	3	•		
	Physical State	0 1 2 3	1	3	3			
		Total Route Characteristics	Score	13	15			
3	Containment	0 1 2 3	1	· 2	3	3.3		
4	Waste Characteristics					3.4		
	Toxicity/Persistenc Hazardous Waste Quantity	0 3 6 9 12 15(18) 0 1 2 3 4 5 6 7 8	1	`18 7	18 8	·		
		Total Waste Characteristic	s Score	25	26			
5	Targets					3.5		
	Ground Water Use	0 1 2 3	3	3	9			
	Distance to Nearest Well/Population Served	0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40			
		Total Targets Score		3.	49			
6	if line 1 is 45, mult if line 1 is 0, multip			1950	57,330			
7	Divide line 6 by 57	,330 and multiply by 100	Sgw=	3.40				

FIGURE 2
GROUND WATER ROUTE WORK SHEET

S	urface Water Route Work			1 24	
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section
1 Observed Release	0 45	1	0	45	4.1
	given a score of 45, proceed given a score of 0, proceed t	_	=	,	
2 Route Characteristics		•			4.2
Facility Slope and Inte	r- 0 1 2 3	1	3	. 3	
· 1-yr. 24-hr. Rainfall	0 1 2 3	1	1	3	•
Distance to Nearest Surface Water	0 1 2 3	2	- 6	6	
Physical State	0 1 2 3	1	3	3	
	Total Route Characteristics	Score	13	15	
3 Containment	0 1 2 3	1	3	3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistenc Hazardous Waste Quantity	0 3 6 9 12 15 18 0 1 2 3 4 5 6	1	18 7	18 8	
	Total Waste Characteristic	s Score	25	26	
5 Targets					4.5
Surface Water Use	0 1 2 3	3	6	9	
Distance to a Sensit Environment	ive 0 1 2 3	2	6	6	
Population Served/ Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	:
	Total Targets Score		12	55	
6 If line 1 is 45, multi If line 1 is 0, multip			11700	64,350	
7 Divide line 6 by 64	350 and multiply by 100	S _{sw} =	18.18		

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

<i>z.</i>	Air Route Work Shee	et						
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)			
1 Observed Release	. 0 45	i i	0	45	5.1			
Date and Location: 11	/3/88 Ramco Steel		•					
Sampling Protocol: HNu photoionization meter, 10.2 eV								
If line 1 is 0, the $S_a = 0$. Enter on line 5 . If line 1 is 45, then proceed to line 2 .								
2 Waste Characteristics		···		 	5.2			
Reactivity and Incompatibility	0 1 2 3	1	1	3				
Toxicity	0 1 2 3	3	0	· 9				
Hazardous Waste Quantity	0 1 2 3 4 5 6	1	7	8	•			
	Total Waste Characteristic	s Score		20				
	Total Waste Cital deterriorie		8		5.3			
3 Targets Population Within 4-Mile Radius	0 9 12 15 18 (21)24 27 30	1	21	30	J .J			
Distance to Sensitiv	X / · ·	2	6	6				
Environment Land Use	0 1 2 3	. 1	3	3				
	Total Targets Score	•	30	39				
4 Multiply 1 x 2 x	3		0	35,100				
5 Divide line 4 by 35	,100 and multiply by 100	·Sa =	0					

FIGURE 9
AIR ROUTE WORK SHEET

	S	s²
Groundwater Route Score (Sgw)	3.40	11.56
Surface Water Route Score (S _{SW})	18.18	330.51
Air Route Score (Sa)	0	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$		342.07
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		18.49
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M$	=	10.69

FIGURE 10 WORKSHEET FOR COMPUTING S_{M}

	Fire and (xplos	sion Work	Sheet			
Rating Factor	A	ssi gne (Circle	d Value One)	Multi- plier	Score	Max. Score	Ref. (Section)
1 Containment	. 1		3	1	3	3	7.1
2 Waste Characteristics							7.2
Direct Evidence	•		3	1	0	3	
Ignitability	(1 2	3	1	0	3	•
Reactivity	0	1 2	3	1	1	3	
Incompatibility	. 0	① 2	3	1	1	3	
Hazardous Waste Quantity) 0	1 2 3 8	4 5 6	1	7	8	
							· .
	Total Was	te Cha	racteristi	cs Score	9	20	•
3 Targets			<u> </u>		· · · · · · · · · · · · · · · · · · ·		7.3
Distance to Nearest Population	. 0	1 2	3 4 5	1	4	5	
Distance to Nearest Building	0	1 ②	3	1	2	3	
Distance to Sensitiv	e 0	1 2	3	1	3	3	
Land Use	0	1 2	3	1	3	3	•
Population Within 2-Mile Radius	0	1 2	3 4 (5)	. 1	5	5	
Buildings Within 2-Mile Radius	0	1 2	3 4 (5)	1	5	5	
	To	tal Tai	gets Scor	е	22	24	
4 Multiply 1 x 2 x 3					594	1,440	
5 Divide line 4 by 1,4	140 and mu	ltiply	by 100	S _{FE} =	N.S.		

FIGURE 11 FIRE AND EXPLOSION WORK SHEET

Direct Contact Work Sheet								
Rating Factor	Assign (Circ	ed Value le One)	Multi- plier	Score	Max. Score	Ref. (Section)		
1 Observed Incident	0	45	1	.0	45	8.1		
If observed release is given a score of 45, proceed to line 4 If observed release is given a score of 0, proceed to line 2								
2 Accessibility	0 1	2 ③	1	3	3	8.2		
3 Containment	. 0	(3	1	15	15	8.3		
4 Waste Characteristics Toxicity	0 1	2 ③	5	15	15	8.4		
5 Targets Population Within a 1-Mile Radius	0 1 2	345	4	16	20	8.5		
Distance to a Critical Habitat	0 1 2	3 4 5	4	0	12			
			·					
·	·							
	Total T	argets Score		16	32			
6 If line 1 is 45, multiply If line 1 is 0, multiply	1 x 4 2 x 3	x 5 x 4 x 5		10800	21,600			
7 Divide line 6 by 21,600 and multiply by 100 Spc = 50.00								

FIGURE 12 DIRECT CONTACT WORK SHEET

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

None - Downgradient contaminants also detected upgradient (Ref. 1, pg. R8; 2, pg. R22-R25)

Rationale for attributing the contaminants to the facility:

Score = 0

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Limestone bedrock and glacial till. Water is transmitted through solution - enlarged joints and pore spaces.

(Ref. 1, pg. R6-R7)

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

At pond: 0'. The settling pond appears to be coincidental with the inferred limestone/till aquifer's pieziometric surface. (Ref. 1, pg. R7)

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

Pond appears to be 5 feet deep. (Ref. 3, pg. R47)

```
Net Precipitation
```

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

34 inches

(Ref. 4, pg. R72)

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

26 inches

(Ref. 4, pg. R72)

Net precipitation (subtract the above figures):

8 inches

Score = 2

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Fine sand and silty sand.

(Ref. 1, pg. R5)

Permeability associated with soil type:

Moderate permeability: 10^{-3} to 10^{-5} cm/sec. (Ref. 4, pg. R72)

Score = 2

Physical State

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

Liquid (spent pickling liquor and rinsewater) (Ref. 5, pg. R73;14, pg. R96)

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Surface impoundment: potential silty sand or bedrock bottom, estimated moderately permeable, no leachate collection system or diversion system is present.

(Ref. 1.3)

Method with highest score:

Surface impoundment, with no run-on diversion structure. (Ref. 4, pg. R72)

Score = 2

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Iron, aluminum, chromium, cadmium, selenium, tin, lead, zinc, copper, phenanthrene, benzo(a)fluoranthene, chrysene, benzo(a)pyrene and PCB's 1260 and 1254.

(Ref. 1.3)

Compound with highest score:

Lead, benzo(a)pyrene, and PCB's all have toxicity and persistence values of 3, matrix values of 18.

(Ref. 4, pg. R72)

Score = 18

Hazardous Waste Quantity

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

1344 cubic yards of settling pond sediment

Basis of estimating and/or computing waste quantity:

Surface impoundment = 5 acres. Maximum of 2 inches of metal hydroxide precipitate on bottom. Pickling liquor disposed of there for 50 years.

5 acres = 217,800 sq.ft. x 1/6 ft. = 36,300 cu.ft. = 1344 cu.yd. (Ref.3, pg. R49; 6, pg. R75; 7, pq. R83)

5 TARGETS

Ground Water Use

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

No usage within 3 mile radius of site.

(Ref. 1, pg. R6-R7; 8, pg. R85-86)

Score = 1

Distance to Nearest Well

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

Not applicable.

Score = 0

Distance to above well or building:

Not applicable.

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

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

No municipal wells or industrial wells within 3 mile radius.

(Ref. 1, pg. R6-7; 8, pg. R85-86)

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

None

(Ref. 7, pg. R83)

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

٥

(Ref. 8, pg. R85-86)

Score = 0

Matrix Score = 0

SURFACE WATER ROUTE

1 OBSERVED RELEASE

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

None observed in definable on-site surface water.

Rationale for attributing the contaminants to the facility: Not applicable

Score = 0

* * *

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

0-2%

Name/description of nearest downslope surface water:

Ponds and wetlands which drain northward and westward to Lake Erie.

(Ref. 6, pg. R75; 7, pg. R87)

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

1%

(Ref. 7, pg. R83)

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

Yes

(Ref. 6, pg. R75; 7, pg. R83)

Is the facility completely surrounded by areas of higher elevation?

No.

(Ref. 6, pg. R75; 7, pg. R83)

Score = 3

1-Year 24-Hour Rainfall in Inches

2 inches

(Ref. 10, pg. R90)

Score = 1

Distance to Nearest Downslope Surface Water

Adjacent

(Ref. 6, pg. R75; 7, pg. R83)

Score =3

Physical State of Waste

Liquid with solid precipitate

(Ref. 3, pg. R30; 5, pg. R73 14, pg. R96)

Score = 3

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Surface impoundment with no liner or runon/runoff diversion.

(Ref. 3, pg. R31; 6, pg. R75)

Method with highest score:

Surface impoundment. It drains to adjacent wetlands.

(Ref. 4, pg. R72)

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Iron, aluminum, chromium, cadmium, selenium, tin, lead, zinc, copper, phenanthrene, benzo(a)fluoranthene, chrysene, benzo(a)pyrene and PCB's 1260 and 1264.

(Ref. 1, pg. R9-R11; 3, pg. R53)

Compound with highest score:

Lead, benzo(a)pyrene, and PCB's all have toxicity and persistence values of 3, matrix values of 18.

(Ref. 4, pg. R72)

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):

1344 cubic yards

Score = 7

Basis of estimating and/or computing waste quantity:

Five acre surface impoundment with maximum of 2 inches metal hydroxide precipitate.
218,800 sq.ft. x 1/6 ft. = 36,300 cu.ft. - 1344 cu.yds.
(Ref. 3, pg. R49; 6, pg. R75; 7, pg. R83)

5 TARGETS

Surface Water Use

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

Recreation, transportation. Numerous marinas and commercial shipping facilities are located along Lake Erie shoreline, 1-3 miles west of site.

(Ref. 7, pg. R83; 8, pg. R85-86) Is there tidal influence?

No

(Ref. 7, pg. R83)

Score = 2

Distance to a Sensitive Environment

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

Not applicable. Western NYS is not a coastal area. (Ref. 7, pg. R83)

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

1,000 ft. to NYSDEC wetland BU-1, <0.5 miles to wetland BU-7, BU-15 (Ref. 9, pq. R87)

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

No critical habitats are located within one mile of site.

(Ref. 11, pg. R91)

Score = 3

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:

Not applicable. Distance to nearest water supply intake is approximately 5 miles north of site, at beginning of Niagara River.

(Ref. 7, pg. R83; 8, pg. R85-R86) Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

Not applicable

Total population served:

Not applicable

Name/description of nearest of above water bodies:

Not applicable

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

Not applicable

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

None

Date and location of detection of contaminants:

Not applicable

Methods used to detect the contaminants:

An HNu photoionizer used during the 11/3/88 site inspection showed no levels significantly above background. Air sampling for particulates has not been performed.

(Ref. 6, pg. R76)

Rationale for attributing the contaminants to the site:

Not applicable

Score = 0

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Lime solution

(Ref. 12, pg. R94)

Most incompatible pair of compounds:

Lime solution and lubricating oil (Ref. 12, pg. R94)

D10196.12

Toxicity

Most toxic compound:

, Lime

'(Ref. 12, pg. R94)

Score = 0

Hazardous Waste Quantity

Total quantity of hazardous waste:

1344 yd3

Basis of estimating and/or computing waste quantity:

Same as on surface water route

Score = 7

* * *

3 TARGETS

Population Within 4-Mile Radius

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

0 to 4 mi

0 to 1 mi

0 to 1/2 mi

0 to 1/4 mi

5,461

(Ref. US Census Data, 1980)

Score = 21

Distance to a Sensitive Environment

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

Not applicable

(Ref. 6, pg. R83)

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

1000 ft. to NYSDEC Wetland BU-1

(Ref. 9, pg. R87)

Distance to critical habitat of an endangered species, if 1 mile or less: No critical habitat of an endangered'species located within 1 mile of site. (Ref. 11, pg. R91) Score = 3Land Use Distance to commercial/industrial area, if 1 mile or less: 100 feet (Ref. 6, pg. R75; 7, pq. R83) Score = 3Distance to national or state park, forest, or wildlife reserve, if 2 miles or less: 0.5 miles--Tift Farm Nature Preserve (Ref. 7, pg. R83) Score = 2Distance to residential area, if 2 miles or less: 1000 feet (Ref. 6, pg. R75; 7, pg. 83) Score = 3 Distance to agricultural land in production within past 5 years, if 1 mile or less: (Ref. 7, pg. R83) None

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

None

(Ref. 7, pg. R83)

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

No

(Ref. 6, pg. R75; 7, pg. R83)

FIRE AND EXPLOSION

1 CONTAINMENT

Hazardous substances present:

Spent lubricating oil, metal hydroxide sludge, lime solution. (Ref. 6, pg. R75; 14, pg. R96)

Type of containment, if applicable:

Spent lubrication oil is ignitable individually. It is temporarily stored in drums in a confined area of the facility. (Ref. 6, pg. 75; 12, pg. R93)

Score = 0

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

No measurements were made.

Score = 0

Ignitability

Compound used:

Lubricating oil.

(Ref. 12, pg. R93)

Score = 0

Reactivity

Most reactive compound:

Lime solution:

(Ref. 12, pg. R94)

Score = 1

Incompatibility

Most incompatible pair of compounds:

Lime solution and lubricating oil. (Ref. 12, pg. R93-R94; 4, pg. R72)

```
D10196.15
```

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

1344 yd3

Basis of estimating and/or computing waste quantity:

Surface impoundment = 5 acres. Maximum of 2 inches of metal hydroxide precipitate on bottom. Pickling liquor disposed of there for 50 years. 5 acres = 217.800 sq.ft. x 1/6 ft. = 36.300 cu.ft. = 1344 cu. yd.

(Ref. 3, pg. R49; 6, pg. R75; 7, pg. R83)

Score = 7

* * *

3 TARGETS

Distance to Nearest Population

Settling pond is 100 feet from building where workers (approx. 90 employees) are present.

(Ref. 6, pg. R75; 7, pg. R83)

Score = 4

Distance to Nearest Building

100 feet

(Ref. 6, pg. R75; 7, pg. R83)

Score = 2

Distance to Sensitive Environment

Distance to wetlands:

Approximately 1000 feet

(Ref. 9, pg. R87)

Score = 3

Distance to critical habitat:

Not applicable

(Ref. 11, pg. R91)

Land Use

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

100 feet

(Ref. 6, pg. R75; 7, pg. R83)

D10196.16

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

0.5 miles - Tift Farm Nature Preserve (Ref. 6, pg. R75; 7, pg. R83; 9, pg. R87)

Score = 2

Distance to residential area, if 2 miles or less:

1000 feet

(Ref. 6, pg. R75; 7, pg. R83)

Score = 3

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

None

(Ref. 7, pg. R83)

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

None

(Ref. 7, pg. R83)

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

No

(Ref. 6, pg. R75)

Population Within 2-Mile Radius

35,951

(Ref. US Census Data, 1980; 3, pg. R61)

Score = 5

Buildings Within 2-Mile Radius

More than 2,600

(Ref. 7, pg. R83)

DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No reported incidents.

(Ref. 3, pg. R62; 6, pg. R75)

Score = 0

* * *

2 ACCESSIBILITY

Describe type of barrier(s):

A fence blocks the eastern portion of the site from the road. However, the fence ends at the railroad tracks at the southern boundary of the property allowing access to the pond. (Ref. 6, pg. R75)

Score = 3

* * *

3 CONTAINMENT

Type of containment, if applicable:

The contaminated waters of the pond and the metal hydroxide precipitate are accessible for direct contact.

(Ref. 6, pg. R75)

Score = 15

* * *

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Aluminum, copper, iron, lead, manganese, phenols, zinc, magnesium, thallium, chromium, PCB's, benzo(a)pyrene (Ref. 1, pg. R8-R12; 2, pg. R19; 3, pg. R62; 15, pg. R101-R110)

Compound with highest score:

PCB's, lead, benzo(a)pyrene have toxicity rating of 3 (Ref. 4, pg. R72)

Score = 3

17

D10196.18

5 TARGETS

Population within one-mile radius

5,461

(Ref. U.S. Census Data, 1980; 3, pg. R60)

Score = 4

Distance to critical habitat (of endangered species)

Not applicable.

(Ref. 11, pg. R91)

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2.	USEPA/USGS, Preliminary Evaluation of Chemical Migration to Groundwater and the Niagara River from Selected Waste-Disposal Sites, 1985.	R16-R25
3.	NUS Corporation, <u>Site Inspection</u> <u>Report and Hazardous Ranking</u> <u>System Model, Ramco Steel, 1984.</u>	R26-R71
4.	USEPA/Mitre Corp., Uncontrolled Hazardous Waste Site Ranking System: A Users Manual, 1984.	R72
5.	NYSDEC, "Inactive Hazardous Waste Disposal Report", 1985.	R73-R74
6.	Site Investigation by Recra Environmental, Inc., 1988.	R75-R82
7.	USGS 7.5 Minute Topographic Map, Buffalo SE Quadrangle, 1965.	R83
8.	NYS Department of Health, New York State Atlas of Communit Water System Sources, 1982.	R84-R86
9.	NYSDEC, "NYS Freshwater Wetlands Map", Map 12 of 31, 1975.	R87-R88
10.	U.S. Dept. of Agriculture, "Rainfall Frequency Atlas of The U.S.", 1961.	R89-R90
11.	Telecon communications from John Curtis of NYSDEC Fish and Wildlife on 11/28/88.	R91
12.	Sax, N. Irving, <u>Dangerous Properties of Industrial Materials</u> , <u>Sixth Edition</u> , <u>Van Nostrand Reinhold Company</u> , <u>New York</u> , 1984.	R93-R94
13.	1986 Census.	R95
14.	Telecon communications with Raymond Rozansky of Niagara Cold Drawn Steel on 10/31/88 and 11/22/88.	R96
15.	Erie County Department of Environmental Protection, July 10, 1981 sampling analysis summary report of Ramco site.	R97-R110

REFERENCE 1

15054

INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK

PHASE II INVESTIGATIONS

VOLUME I

Alltift Realty

City of Buffalo

Site No. 915054 Erie County



Prepared for: New York State Department of Environmental Conservation

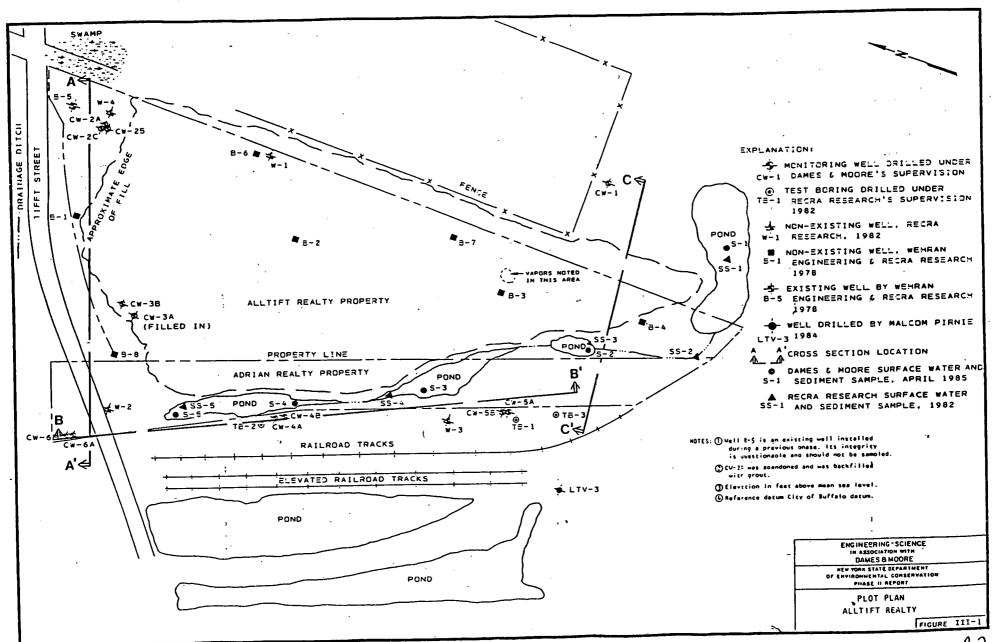
50 Wolf Road, Albany, New York 12233-0001
-Henry G. Williams, Commissioner

Division of Solid and Hazardous Waste Norman H. Nosenchuck, P.E., Director

By:

In Association With DAMES & MOORE

SEPTEMBER 1986



widespread accumulations of till and stratified ice-contact sediments. The melting of ice, ending approximately 12,000 years ago, produced large volumes of meltwater; this water subsequently shaped channels and deposited thick accumulations of stratified, granular sediments.

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

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

Site Geology

Prior to the Phase II investigation, two major studies of the Alltift Landfill were performed by RECRA Research, Inc. in 1978 (jointly with Wehran Engineering) and 1982. In addition, a recent study by Malcolm Pirnie (1984) of the Marilla Street Landfill provides information regarding the area south of the site. The data from these studies have been combined with the information from the Phase II study and a relatively complete picture of the site geology has been formed.

From all of these studies, a total of 22 sampled borings have been drilled and 23 wells have been installed. (However, only the 10 new Phase II wells are presently useable.)

The following summary of site geology is based on the information from these earlier studies, NYS Museum and Science Service Bedrock Geology Map and Quaternary Geology Map, USGS topographic maps, LaSala (1968) and the Phase II field program.

Figures IV-3 through IV-5 depict the subsurface geology at the Alltift Realty site in cross sectional views. The bedrock surface beneath the site, as shown in map view on Figure IV-6, slopes to the northwest and has a maximum relief of approximately 60 feet. A northeast/southwest-oriented bedrock escarpment (cliff) exists through the center of the site; it accounts for approximately 20 feet of relief.

In the vicinity of the escarpment (center of the site), the bedrock has been identified as black shale (by RECRA Research and Wehran Engineers) and as black siltstone (Phase II investigation). A strong petroleum odor was noted from samples of this rock; it may be natural and consistent with its petroliferous character.

In the southern and northern parts of the site, the bedrock has been identified as grey limestone. (Earlier reports suggested a slightly different bedrock configuration, but they were based on less drilling information). Bedrock samples from the northern part of the site contained seams of black petroliferous material (apparently natural) and had strong petroleum odor.

In earlier studies, (RECRA, 1982) formational names had been identified for the northern limestone, central black "rock", and southern limestone.

The bedrock configuration, as identified from the Phase II investigation is consistent with the formational names as described and published by Buehler (1966).

Stafford Limestone Member of the Skaneateles Formation (Southern Limestone): "The Stafford is a gray limestone which weathers to chocolate brown. Bedding varies from massive to shaly."

Oatka Creek Member of the Marcellus Formation (Central Black Rock):

"A dense, black fissile shale with a <u>petroliferous odor</u>. There are some beds of grey shale and several concretionary layers. Nodules of pyrite occur in the black shale near the base".

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

Overlying the bedrock is a layer of sand/gravel/silt till which occurs intermittently in thicknesses as great as 18 feet. The till was deposited by glacial ice, and may be winnowed, sorted, or stratified in some parts by the action of meltwater near the edge or beneath the glacier. The till is thickest at the base of the bedrock escarpment.

Overlying the till (or directly on bedrock in areas where the till is absent), a thick sequence of lacustrine deposits blankets the site. These fine-grained sediments were probably deposited in Lake Warren, the large predecessor of Lake Erie. Much of the land surface along the eastern shore of Lake Erie is covered with these sediments. They have been mapped by Muller (NYS Quaternary Geology Map, 1977) and their presence on other nearby sites (Malcolm Pirnie, 1984 and Phase II investigation of Allied Chemical - Hopkin Street site) has been confirmed by drilling. On the Alltift site, the total thickness of this lacustrine sequence often exceeds 40 feet.

The lacustrine sediments on the site are believed to be layered in the typical manner of most lake deposits. The lower part of the sequence is predominantly grey clay and silt. Near the base, the color alternates between red and grey layers, indicating a contribution of fine sediment probably originating north of the Niagara Falls area. The sediments grade vertically upward into silt and fine sand and clay layers, indicating the decrease in water depth at the location of the site as Lake Warren drained to form Lake Erie.

These two units, which comprise the lacustrine sequence on this site are depicted on the cross sections. It can be seen that both units are usually, but not always, present in the subsurface. In the north-eastern corner of the site, the upper unit (silt, fine sand and clay) is

absent. The distribution of the lower clay/silt unit is depicted on an isopach map (Figure IV-7) and is thickest in the northwest part of the site and absent at the southern end of the site. The shape of the upper surface of the clay/silt unit is depicted on Figure IV-8, and appears to form west-east ridges and swales with a maximum relief of approximately 20 feet. This pattern is consistent with possible wave-action direction from the west. Overall, this surface slopes to the west. Based on the data, no enclosed basins are believed to exist.

Overlying the upper silt, fine sand, and clay unit along the west edge of the land, recent swamp-type organic silts were encountered. This is consistent with the present day swamp adjacent to the site. Overlying the upper silt, fine sand and clay unit across most of the site is fill material, reaching thicknesses in excess of 20 feet.

Site Hydrology

Two aquifers have been identified in the subsurface of the Alltift Realty site and are defined as follows:

Upper Aquifer - the upper unit of the lacustrine sediment, hydraulically connected with the overlying fill material, the western surface water bodies and, at the southern end of the site, the lower aquifer.

Lower Aquifer - the upper part of the bedrock and the overlying till, hydraulically connected with the upper aquifer at the southern end of the site and possibly with the large pond south of the site.

In-situ permeability tests were performed on the CW-series wells during the Phase II investigation. Laboratory permeability tests were performed on undisturbed samples taken from wells B-2 and B-5 of the clay/silt unit (RECRA and Wehran, 1978). The results of these tests are presented in Table IV-1.

Generally, the permeability of the lower aquifer ranges from 10^{-2} cm/sec to 10^{-4} cm/sec and the upper aquifer ranges from 10^{-4} cm/sec to 10^{-6} cm/sec. The aquitard permeability is approximately 10^{-8} cm/sec.

Groundwater flow directions can be inferred from the piezometric surfaces presented on Figures IV-9 and IV-10. The upper aquifer forms a mound in the east-center of the site, with radial flow to the west, north, and south. The gradient of this water table ranges from 1.0% to 0.5%. It is this aquifer that is recharged by rainwater percolating downward through the fill, and discharges along the western and southern boundaries as seeps. The Phase II investigation survey data shows the elevation of the ponds along the western boundaries to be equal to the elevation of the upper piezometric surface, thus inferring a hydraulic connection between the upper aquifer and the western surface water bodies. Additionally, survey data suggests a flow direction within these linked-ponds to be northward. Flow rates within these swamp-like ponds is believed to be slow.

The piezometric surface of the lower aquifer shows a flow direction to the northwest with an average gradient of 0.4%. This gradient is slightly less in the northern half of the site and much greater at the northwest corner of the site. (Earlier reports, based upon less well data, suggested a much lower gradient).

In the southern part of the site, the piezometric surfaces of both aquifers appear coincident. This occurrence, coupled with the lack of an aquitard in the subsurface indicates a potential connection between the two aquifers.

Further south of the site, the elevation of the surface water in the large (Ramco Steel) pond is coincident with the inferred lower aquifer piezometric surface in that area. Again, the possible lack of an aquitard beneath the pond suggests a connection between the pond water and the lower aquifer.

TABLE IV-2B
ANALYTICAL RESULTS OF SHALLOW AQUIFER GROUNDWATER SAMPLES
(1)

				Sample Loc	ations			NYSDEC Water
Constituents (2)	B1 (ug/l)	B2 (ug/l)	(ug/1)	B5 (ug/1)	B6 (ug/l)	B7 (ug/1)	88 (ug/1)	Qlty. Standard, (ug/l)
Motal	260	50	240	60	. 30u	30u	40	NS
Aluminum, Total	6.3	131	4u	5.1	21.3	15.4	12.2	25
Arsenic, Total	14	546	3u	10	6	16	. 12	NS
Chromium, Total	10u	40	10u	10u	10u	10	10	50
Chromium, Hexavalent	3u	26	15	210	5	10	14	1,000
Copper, Total	_	3.8	1.3u	1.3u	1.3u	10.7	NA	2
ercury, Total	1.3u	908,000	146,000	118,000	128,000	182,000	118,000	NS
Potassium, Total	98,000	•	2,020,000		1,140,000	1,560,000	1,300,000	NS
Sodium, Total	1,060,000			146,000		56,000	. 18,000	NS
Calcium, Total	214,000	54,000	760,000 2u	2u	_	4u	3	50
Silver, Total Iron, Total	2u 280	2u 2,430		160		460	20	300

⁽¹⁾ Samples collected and analyzed by Wehran Engineering and RECRA Research, 1978.

⁽²⁾ Only those constituents that were detected are presented.

^{(3) &}quot;Groundwater Quality Standards and Effluent Standards and/or Limitations", 6 NYCRR Part 703, NYSDEC, 1978.

Amended Version in NYSDEC, "Ambient Water Quality Standards and Guidance Criteria", Memorandum No. 85-W-38,

July, 1985.

u Less than instrument detection limit.

NA Not available.

NS No standard.

TABLE IV-3A ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES (1)

		Samo	le Locati	on.	, N	YSDEC Water Quality,
	S-1	S-2	S-3	S-4	S-5	Standard (3)
Constituent (2)	(ug/1)		(ug/1)	(ug/1)	(ug/l)	(ug/l)
Aluminum	200u	800	200u	200	200u	100 (4)
Antimony	60u	340	74	[47]	[18]	3 (6)
Arsenic	- [1]	[1]	· [2]	[4]	[3]	50 (5)
Barium	200u	200u	200	200	200u	1,000 (5)
Calcium	150,000	260,000	250,000	230,000	210,000	NS (4)
Chromium	1 Ou	50	20	30	20	11 (4)
Copper	[13]	73	30	37	. 27	200 (5)
Iron	1,400	1,900	1,600	2,100	690	300 (4,5
Lead	[2]	9	12	16	28	50 (5)
Magnesium	24,000	80,000	78,000	65,000	32,000	35,000 (5)
Manganese	630	2,100	1,100	970	440	300 (5)
Mercury	0. 2u	0. 2u	0.2u	0.2	0.2u	0.2 (4)
Nickel	40u	50	40u	40	[30]	(7)
Potassium	10,000	64,000	68,000	67,000	26,000	NS
Sodium	25,000	240,000	280,000	290,000	120,000	NS
Tin	[5]	44	58	45	[13]	NS (4)
Zinc	30	140	90	1 20	90	30 (4)
Acetone	17	11	1 Ou	1 Ou	1 Ou	NS
4-chloroaniline	10u	20u	10u	99	49	NS

- (1) Samples collected by ES/D&M as part of Phase II investigation, April, 1985.
 Additional samples were collected in June, 1986 for analysis of semi-volatile compounds.
- (2) Only constituents that were detected in at least one sample are presented.
- (3) NYSDEC (1974). "Surface Water Quality Standards", 6 NYCRR 701-702. Amended version in "Ambient Water Quality Standards and Guidance Values". NYSDEC Memorandum No. 85-W-38. July 24, 1985.
- (4) Class A, A-S, AA, AA-S, B, C for aquatic life.
- (5) Class A, A-S, AA, AA-S for human health.
- (6) Class A, A-S, AA, AA-s Guidance criteria for human health.
- (7) Nickel standard for aquatic life = exp (0.76 [ln (ppm hardness)] + 1.06).
- Concentration less than listed detection limit.
- [] Listed concentration less than contract required detection limit.
- NS No standard.
- J Estimated value.

TABLE IV-3B
ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES (1)

	1	t	J		_	Locations				_	NYSDEC Surface
	SS			S-2		SS-3		SS-4		S-5	Water Quality
Constituent (2)	7/5/78 (ug/l)	7/17/78 (ug/l)	7/5/78 (ug/1)	7/17/78 (ug/l)	7/5/78 (ug/1)	7/17/78 (ug/1)	7/5/78 (ug/1)		7/5/78 (ug/1)	7/17/78 (ug/1)	Standards' (ug/l)
Aluminum	2920	4910	2640	4870	. 270	110	260	150	270	60	100 (4)
Arsenic	. 89	94	57	. 34	46	8	74	2	75	5	(4)
Calcium	360000	184000	600000	652000	88000	116000	148000	148000	176000	56000	
Chromium (Total)	763	834	751	874	39	40	57	42	40	66	
Copper	6890	1000	1710	1300	130	17-	440	3u	360	10	
Iron	1832000	2030000	1144000	1770000	18300	2000	18400	800	12400	1200	300 (4)
Lead	420	510	380	510	2000u	20u	2000u	20u	40	20u	50 (5)
Potassium	26900	3500	20000	4800	182000	286000	331000	289000	256000	246000	· NS
Sodium	440000	340000	68000	70000	1360000	1220000	1010000	1100000	1020000	1050000	
Phenols	- 34	40	27	. 36	39	58	94	43	71	. 57	1 (5)
Total Halogenated Hydrocarbons	1.83	2.31	1.33	7.25	3.07	1.02	7.32	0.75u	1.76	0.75u	NS

- (1) Samples collected and analyzed by RECRA Research and Wehran Engineering (1978).
- (2) Only those constituents present in one or more samples are presented.
- (3) NYSDEC (1974). "Surface Water Quality Standards", 6 NYCRR 701-702. Amended version in "Ambient Water Quality Standards and Guidance Values". NYSDEC Memorandum No. 85-W-38. July 24, 1985.
- (4) Class A, A-S, AA, AA-S, B, C for aquatic life.
- (5) Class A, A-S, AA, AA-S for human health.
- u Less than listed detection limit.

TABLE IV-3C ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES (1)

Constituent ⁽²⁾	81-167-01 South Pond East Bank (ug/1)	Sample Location 81-167-02 Drainage Ditch North of Pond (ug/l)	81-167-03 North Pond East Bank (ug/l)	
Arsenic	3u	3u	12	50 (4)
Chromium	12	16	116	11 (5)
Copper	44	. 12	52	200 ′(4)
Lead	60u	60u	120	50 (4)
Zinc	660	28	58	30 (5)
Gamma BHC (Lindane) 0.01	0.02u	0.05u	0.02 (6)
4,4'-DDE	、 0.09	0.09	0.04u	0.001 (5)
4,4'-DDT	0.06	0.021	0.02u	0.001 (5)
Alpha Endosulfan	0.09	0.02u	0.02u	0.009 (5)

⁽¹⁾ Results of samples collected and analyzed by RECRA Research. (Ploscyca, 1981.)

⁽²⁾ Only constituents present in one or more samples are presented.

⁽³⁾ NYSDEC (1974). "Surface Water Quality Standards", 6 NYCRR 701-702. Amended Version in "Ambient Water Quality Standards and Guidance Values". NYSDEC Memorandum No. 85-W-38. July 24, 1985.

⁽⁴⁾ Class A, A-S, AA, AA-S for human health.

⁽⁵⁾ Class A, A-S, AA, AA-S, B, C for aquatic life.

⁽⁶⁾ Guidance value for Class A, A-S, AA, AA-S for human health.

Concentration less than instrument detection limit.

TABLE IV-4A
ANALYTICAL RESULTS FOR SEDIMENT SAMPLES (1)

		0-				Range of Concentration
	S-1 (1	S-2	mple Location S-3			in Noncontaminated
Constituent (2)	(mg/kg)	(mg/kg)	(mg/kg)	S-4 (mg/kg)	S-5 (mg/kg)	Soils (mg/kg)
Aluminum	2,200	12,000	10,000	8,200	5,200	150,000 - 600,000 (3
Antimony	[1.8]	78	[52]	(6.8)	76	0.1 - 10
Arsenic	6.7	16	28	51	21	< 40 (3
Barium	100	200	670	870	610	1 - 1,000
Beryllium	1.0u	0.83u	2.2	[0.91]	0.68u	1 2
Cadmium	2.4	2.6	4.2	5.9	13	< 1 (3
Cacium	[960]	35,000	27,000	69,000	2,400	. < 1
Chromium	110R	10,000R	170R	2,000R	20,000R	NA Trace - 250
Cobalt	35	35	17	20	310	0.1 - 13 ,
Copper	130R	3,600R	370R	430R	1,600R	2 - 100
Iron	300,000	140,000	61,000	61,000	94,000	10,000 - 100,000 (4
ead	600	370	730	520	8,900	2 - 200 (3
Magnesium .	1,100	3,800	3,100	3,500	4,500	2 - 200 NA
langanese	2,300R	1,400R	500R	710R	1,100R	20 - 30,000
lercury	0.21u	1.4	0.93	1.6	12	< 1
lickel	. 50	200	59	59	760	3 - 1,000
Potassium	2,900	3,500	1,700	1,400	490	NA
Selenium	1.9	0.8u	1.2	[0.98]	[0.38]	1 - 10
Silver	2.1	1.7u	1.7	2.3	1.4	15 - 50 (3
Sodium	2,300	1,500	1,400	2,400	760	NA , ,
Challium	3.4	1.8u	[0.3]	2. 3u	[0.2]	(4 < 2 /4
rin	10	14	120	13	67	2 - 300
/anadium	41	19	33	68	26	5 - 140 (3
Zinc	1,300	650	1,200	130	3,800	10 - 300 (3
ethylene Chloride	0.0563B	0.0363B	0.0393в	0.0453B	0.0443B	NA
Acetone :	0.052B	0.025B	0.022B	0.112B	0.102B	NA.
Coluene	0.0071J	0.008u	0.009u	0.012u	0.011	NA .
Benzene	0.010u	0.033	0.009u	0.012u	0.029	NA NA
Chlorobenzene	0.010u	0.075	0.015	0.058	0.190	NA NA

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

PHASE II INVESTIGATIONS

VOLUME II.

Alltift Realty
City of Buffalo

Site No. 915054 Erie County



Prepared for: New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233-0001 Henry G. Williams, Commissioner

Division of Solid and Hazardous Waste Norman H. Nosenchuck, P.E., Director

By:

In Association With DAMES & MOORE

SEPTEMBER 1986

DAMES & MOORE BORING LOG

Page 1 of 1

CLIENT: NYSDEC LOCATION: ALLTIFT REALTY

DRILLING METHOD: Hollow stem auger

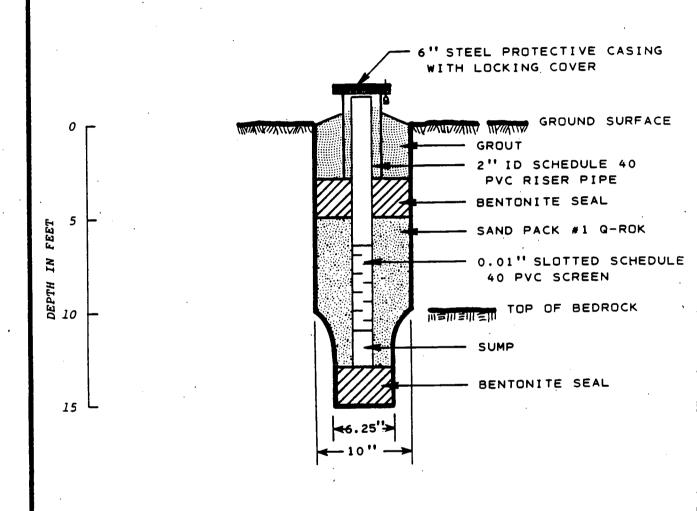
SAMPLING METHOD: Split spoon

BORING NO.: CW-1 SURFACE ELEV: 585.47'

DATE STARTED: 7/16/85

DATE FINISHED: 7/16/85

SAMPLE NO.	BLOWS/FT	SAMPLE TYPE	DEPTH IN FT.	SOIL GRAPH	MATERIAL DESCRIPTION
1	4		1 		Black organic silty topsoil Tan fine sand with some black organic silt Hnu=0
<u> </u>	11		3 -4 -5 -8	SM	grading moist grading some clay and gravel
			7 8 9		grading with cobbles
3	60/2.5"		10 11 12 13	GM	Brown gravel with brown wet sand and some clay (Till) Anu=1ppm Black stained limestone (Onondaga Limestone)
			15		Boring terminated at a depth of 15.0 feet on 7/16/85.



ENGINEERING-SCIENCE
IN ASSOCIATION WITH
DAMES & MOORE
NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION
PHASE II REPORT
WELL SCHEMATIC

BORING CW-1 ALLTIFT REALTY

APPENDIX B

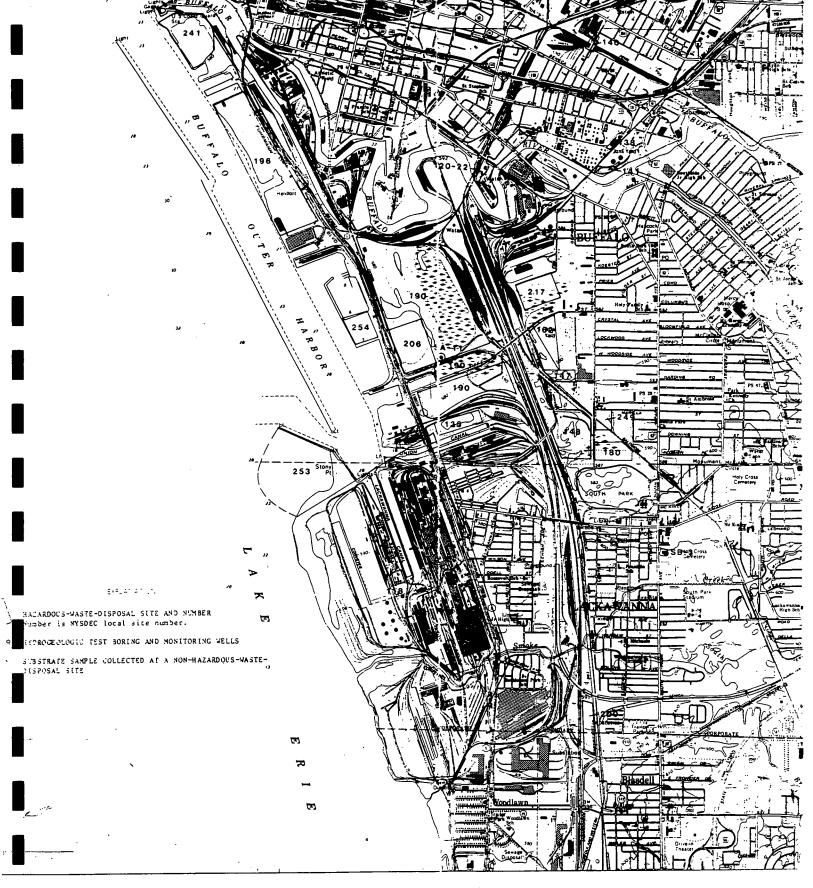
REFERENCE 2



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







LOCATION OF HAZARDOUS-WASTE-DISPOSAL SITES IN THE BUFFALO AREA, NY

PRELIMINARY EVALUATION OF HYDROGEOLOGY AND CHEMICAL MIGRATION TO GROUND WATER

AT SELECTED WASTE-DISPOSAL SITES WITHIN 3 MILES

OF THE NIAGARA RIVER IN ERIE AND NIAGARA COUNTIES, NEW YORK

General information and contaminant-migration potential.—The Ramco Steel site is in the city of Buffalo. A detailed map showing the location of the site and of soil and surface-water-sampling points is shown in figure A-10. For an unknown period of time, a lagoon at the site received a mixture of used pickling liquors, rinse water, lime sludge, iron, and chrome. The quantity of each waste disposed of was as follows:

waste liquor 75,000 gal/yr rinse water and lime sludge 6,000 gal/yr iron unknown unknown

Use of the lagoon for waste disposal has been discontinued.

The potential for the migration of contaminants offsite is indeterminable. The slightly elevated concentrations of copper and lead indicate that some migration may be taking place, but if the underlying clay is continuous throughout the area, the potential of vertical migration would be limited. The pond-water quality should be studied in detail because the pond is a route of contaminant egress from the site.

Geologic information. -- The U.S. Geological Survey drilled three test borings on the site in 1982; the locations are shown in figure A-10. The geologic logs are as follows:

Boring no.	Depth (ft)	Description
1	0 - 4.0 4.0 - 7.0	Topsoil, black, gravel. Cinders and soil, black, very wet.
	7.0 - 10.0	Clay, sandy, brown-green, soupy, hit refusal at 10 ft. SOIL SAMPLE: 7-9 ft.
2	0 - 2.5 2.5 - 4.0 4.0 - 5.5	Rock fill. Sand, fine, brown, soupy. Clay, brown-red. SOIL SAMPLE: 4 ft.
3	0 - 2.5 2.5 - 4.0 4.0 - 5.5	

Hydrologic information.—No hydrologic data were obtained from the site because, a well could not be developed to produce significant water, even though the soil was moist below 2.5 ft. Probably a seasonal water table had formed at an altitude of 580 ft above NGVD at the time of sampling.

Chemical information.—The Geological Survey collected a soil sample from each of the three boreholes, a duplicate soil sample at borehole 1, and two surfacewater samples from holes 4 and 5; results are given in table A-11. The substrate samples contained higher copper concentrations than soil samples from the undisturbed areas. The concentrations of iron and lead exceeded USEPA criteria for drinking water.

Table A-11.—Analyses of substrate and surface-water samples from Ramco Steel, site 147, Buffalo, N.Y., July 22, 1982. [Locations shown in fig. A-10. Concentrations are in $\mu g/kg$ and $\mu g/L$; dashes indicate that constituent or compound was not found. Blank space indicates not measured.]

		Substrate sample number and depth below land surface (ft)				Surface-water sample number		
	1 (7.0)	(C-14h)	2	3	4	.5		
	(7.0)	(Split)	(4.0)	(5.0)				
Specific condu (µmho/cm)	ctance				720	3,980		
Temperature (°	C)				23.0	24.0		
Inorganic Cons	tituents							
Chromium	10,000	(10,000)		3,000	1	-		
Copper	21,000	(9,000)	6,000	53,0001	† 19	24		
Iron	6,500,000	(7,600,000)	6,500,000	9,360,000	7,4001	17,000†		
Lead	30,000	(40,000)			6	270†		

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

^{††} Exceeds concentrations in samples taken from undisturbed soils in the Buffalo area. Undisturbed soils were not analyzed for iron.

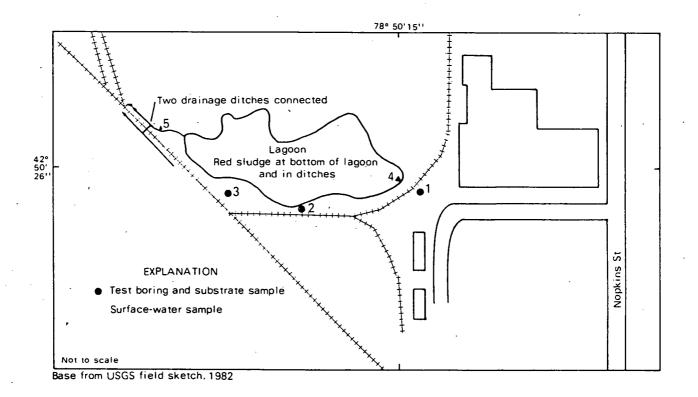


Figure A-10. Location of sampling holes at Ramco Steel, site 147, Buffalo.

General information and contaminant-migration potential.—The Alltift Landfill, a 25-acre area south of the city of Buffalo, has been a disposal site since the 1950's. From the 1950's to the early 1970's, the site was used to dispose of bulk loads of dye, oil sludges, phenolic compounds, chrome sludge, copper sulfate, nitrobenzene, monochlorobenzene, and naphthalene. The amount of material deposited is unknown.

The landfill was inactive from the early 1970's to the late 1970's. Since then it has been used for the disposal of auto-demolition shredder waste, core sands, fly ash, and sand waste at a rate of 40,000 to 60,000 yd 3 /yr. The disposal area is now in the northern third of the site (fig. A-12).

Chemical data suggest that inorganic contaminants are migrating through the clay unit. The concentration of phenols, arsenic, mercury, chlorides, and sulfates in the zone above the clay greatly exceed ground-water standards; therefore, the potential for contaminant migration would become major if the contaminants were to move through the clay and into the lower aquifer.

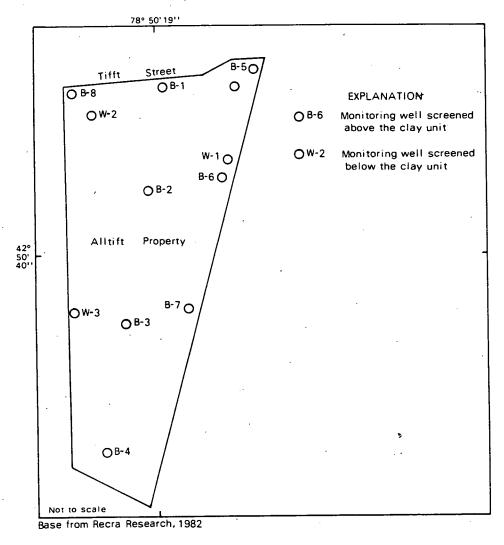


Figure A-12. Location of sampling holes at Alltift Landfill, site 162, Buffalo.

Geologic information.—The site consists of alluvium and fill of recent age underlain by till and lacustrine clay, which are in turn underlain by limestone and shale of Devonian age. Two consulting reports—Wehran Engineering and Recra Research (1978) and Recra Research (1982)—discuss these units in detail and include geologic cross sections. A generalized geologic column is shown in figure A-13.

PERIOD	PERIOD	FORMATION	COLUMNAR SECTION	THICKNESS IN FEET	CHARACTER
	RECENT	Fill — Unconformable —		0-18	Refuse, wood, concrete, cinders, fly ash, decomposed vegetation, sand, metal fragments; highly permeable
		Alluvium Conformable ——		0-6	Fine sand, silt; Marginally permeable
QUATERNARY	PLEISTOCENE (WISCONSIN AGE)	Glaciolacustrine clay		6 - 43	Grey varved clay, occasional laminations of silt or fine sand, stiff at upper contact, soft to very soft below; highly impermeable
	PLEI	Conformable ————————————————————————————————————		0-12.5	Clayey silts, some sand and gravel; marginally permeable
AN		Skaneateles formation: Stafford limestone member	3,1	<15	Grey limestone
DEVONIAN		Marcellus formation: Oatka Creek shale member		30 - 55	Black calcareous shale

Figure A-13. Generalized geologic column of formations underlying the Alltift Landfill, site 162, Buffalo.
(Site location is shown in fig. A-12. Modified from Recra Research, Inc., 1982.)

General information and contaminant-migration potential.—The Republic Steel landfill, in the southern part of the city of Buffalo, has been used since 1930 for disposal and storage of precipitator dust, clarifier sludge, railroad ties, checker bricks, scrap wood, roll scale, blast-furnace dust, BOF brick, refuse, and miscellaneous debris.

Geologic and preliminary chemical data collected by the U.S. Geological Survey indicate a limited potential for contaminant migration. One water sample indicates contamination by ethylbenzene and phenol. The potential for contaminant migration is indeterminable.

Geologic information.—The site is underlain by a layer of lacustrine sediments ranging in thickness from 8 to more than 20 ft overlying a dense silty till that overlies shale bedrock.

Hydrologic information.—Water levels in five deep monitoring wells during August 1979 and February 1982 are shown in table A-12. The potentiometric surface at those times is depicted in figure A-11; both maps show the general direction of ground-water flow to be westward toward the Niagara River.

Chemical information.—The U.S. Geological Survey collected six ground-water samples from two shallow wells and from four deep wells on the site and a surface-water sample from a drainage ditch. All ground-water samples were analyzed for USEPA priority pollutants; results are given in table A-13. Concentrations of iron in the samples were higher than the USEPA criterion for drinking water or the New York State standard for ground water. Lead was higher than the New York State standard in all samples, and manganese in sample 3A was higher than the standard. Phenol in sample 2A was much higher than the State standard. The samples contained two organic priority pollutants, six organic nonpriority pollutants, and three organic compounds potentially of natural origin.

Table A-12.--Water levels in five deep monitoring wells on Republic Steel, site 148, Buffalo, N.Y. [Well locations are shown in fig. A-11.]

Well	Water level (feet	above sea level)		
number	August 1979	February 1982		
	•			
1 .	dry	dry		
2	579.56	dry		
3	580.49	581.57		
4	dry	579.93		
· 5	583.10	582.86		

August 1979 data from McPhee, Smith, Rosenstein Engineers, P.C. February 1982 data from Malcolm Pirnie Associates.

1.7

Table A-13.--Analyses of ground-water and surface-water samples from Republic Steel, site 148, Buffalo, N.Y., July 22-23, 1982.

[Locations shown in fig. A-11. Concentrations are in µg/L; dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.]

	Sample nu	mber and depti	n below land s	surface (ft)
	Surface wate	r	Ground water	•
	1	2	2A	3A
		(24.8)	(4.3)	(14.9)
	7.8	9.2	11.4	. 8.0
oH	1,430	608	2,125	900
Specific conductance	1,430	000	_,-	
(umho/cm)	27.0	10.2	17.0	10.5
Temperature (°C)	27.0	10.2	• • • • • • • • • • • • • • • • • • • •	
Inorganic constituents				
Aluminum		357	662	
Antimony	-			
Arsenic		., 	14†	
Barium	224			532
Beryllium				
Cadmium				
Chromium	30	17	37	46
Cobalt		***		
Copper				
Iron	373†	1,080†	829†	2,2201
Lead	531	51†	36†	40†
	24	90	.72	1,000†
Manganese			· · · · ·	
Mercury			· 	 ·
Nickel				
Selenium				
Silver				
Tin				
Tellurium				
Vanadium		26	18	46
Zinc	·. ——	2.,		
Organic compounds	•		•	
Priority pollutants			LT	
Ethylbenzene**				
Phenol			40†	

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

[†] Exceeds USEPA criterion for maximum permissible concentration in drinking water or the NYS standard for maximum concentration in ground water.

^{**} Volatile found in GC/MS extractions. Concentration probably higher than that detected.

Table A-13.--Analyses of ground-water and surface-water samples from Republic Steel, site 148, Buffalo N.Y., July 22-23, 1982 (continued) [Locations shown in fig. A-11. Concentrations are in µg/L; dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.]

•				elow land suri	tace (It
	Surface	water			
	1	,	2	2A	3A
·			(24.8)	(4.3)	(14.9)
organic compounds (continu	ed)				
Nonpriority pollutants					
2,3-Dichloro-2-methyl			• •		
butanel	LT		14		20
1,3-Dimethylbenzene ¹			24		20
3-Hexanol ¹			24		
4-Methyl-2-pentanol ¹			13		
1-(2-butoxyethoxy)-					650
ethanol ^l	52		370		650
	 		Ground w	ater	
		4	5	5A	-
		(19.7)	(17.7)	(4.6)	
			_		
pH .		11.2	7.5		
Specific conductance		. 710	1,025	3,625	
(umho/cm)	•				
Temperature (°C)		10.0	10.5	14.	5
•	•				
Inorganic constituents					
Aluminum					
Antimony					
Arsenic	•				•
Barium		158			
		150			
Beryllium				4	
Cadmium		39	52	37	
Chromium	•	39	, 52		
Cobalt					
Copper	•	'	07(000+	22 4001	•
Iron .		264	276,0001	23,4001	
Lead		20	17	19	
Manganese		26	574†	8,5201	
Mercury					
Nickel					
Selenium				,	
Silver					
Tin				_ 	
Tullerium					
Vanadium				. 	
			17	33	

Table A-13.--Analyses of ground-water and surface-water samples from Republic Steel, site 148, Buffalo N.Y., July 22-23, 1982 (continued) [Locations shown in fig. A-11. Concentrations are in µg/L; dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.]

	Sample number an	d depth below	land surface	(ft)
•		Ground water		4.
•	4	5	5A	•
	(19.7)	(17.7)	(4.6)	1.
Organic compounds		-	•	
Nonpriority pollutants 1,3-Dimethylbenzenel		5•6		. 1
Cyclohexanol ^l Hexahydro-2H-azepho-	16	LT		,
2-one ^l	25		- ₹.	
<pre>1-(2-butoxyethoxy)- ethanol¹</pre>		150		
Cyclohexanone ^l	78			•
2-Hexanone ^l		LT		

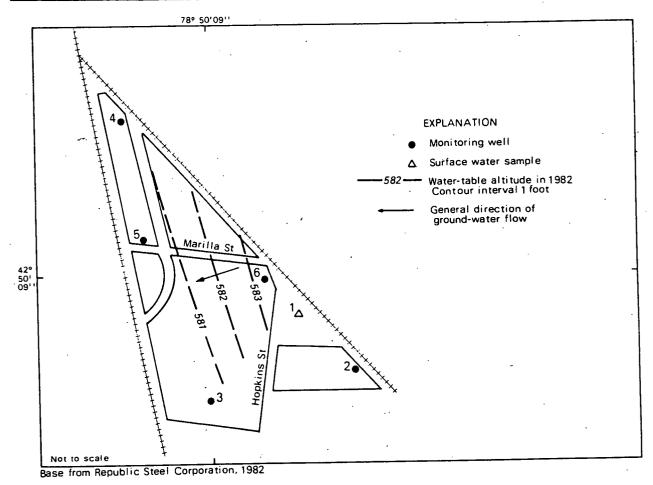


Figure A-11. Potentiometric surface and location of sampling holes at Republic Steel, site 148, Buffalo, August 1979 and February 1982.

REFERENCE 3



PROJECT FOR
PERFORMANCE OF
REMEDIAL RESPONSE ACTIVITIES AT
UNCONTROLLED HAZARDOUS
SUBSTANCE FACILITIES—ZONE 1

NUS CORPORATION SUPERFUND DIVISION

FINAL DRAFT
SITE INSPECTION REPORT
AND HAZARDOUS RANKING SYSTEM MODEL
RAMCO STEEL
BUFFALO, NEW YORK

PREPARED UNDER

TECHNICAL DIRECTIVE DOCUMENT NO.
CONTRACT NO. 68-01-6699
02-8303-116A

FOR THE

ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

DECEMBER 14, 1984

NUS CORPORATION SUPERFUND DIVISION

SUBMITTED BY

CHARLOTTE RYDEN

PROJECT MANAGER

REVIEWED/APPROVED BY

TERRY A. RITTER

REGIONAL PROJECT MANAGER



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT EXECUTIVE SUMMARY

	Ramco Steel Site Name	NYD 059961003 EPA Site ID Number
	Buffalo, New York Address	02-8303-116A TDD Number
	Date of Site Visit: 7/11/84	
	5-acre inactive settling lagoon lewste pickling liquor was dischard to 1979. In 1978, metallic sulfacturing NaOH leaving metallic hydrothe lagoon. The lagoon drains the wetland area which drains into Labliquor, metallic sludges from set	ckling and processing facility with a ocated at the rear of the property. ged to the settling lagoon from 1929 tes in solution were precipitated out xide sludges visible at the bottom of rough an open channel to an adjacent ke Erie. At present, spent pickling tling pits within the plant, and spent stored on site and then transported
	from the site to be analyzed for a selenium, tin, lead, zin, and consamples in quantities greater that The surface drainage from the real nickel in excess of USEPA Water Quand the lagoon water contained se Organic contamination was also promany of these contaminants are contaminants.	
H	AZARD RANKING SCORE: 12	.95
	Prepared by: Charlotte Ryden of NUS Corporation	Date: 12/5/84

SEPA

I. IDENTIFICATION

01 STATE 02 SITE NAMEER

NY D059961003

ALIA	PART 1 - SITI	E LOCATION AN	o inspe	CYLOR INFORM	ITAN	ON		,
II. SITE NAME AND LOC	ATION .							
01 SITE NAME (Legal, common, o	r descriptive name of site)	· · · · · · · · · · · · · · · · · · ·	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER					
Ramco-Fitzsimmons	Steel Corp., Inc.	·	110 Hopkins Street 04 STATE OS ZIP CODE OS COUNTY OTCO				Tozcovina	Y 08 CONG
03 CITY			1				CODE	DIST
Buffalo	,		NY	14220		Erie	029	33
09 COORDINATES	LONGITUDE	10 TYPE OF OWNERS	HIP (Check o	EDERAL		STATE D. COUNTY	E. MUNICI	PAL
	7 80 5 0' 0" W	☐ F. OTHER				_		
III. INSPECTION INFOR	MATION Top site status	TO3 YEARS OF OPERA	TION					
· ·	S ACTIVE	1	1929	! Present		UNKNOWN		
07 / 11 / 84	□ INACTIVE	BEC	SINNING YE					
04 AGENCY PERFORMING INS								
□ A. EPA ② B. EPA ○	CONTRACTOR NUS Corpo	Name of firm)		•	MUNI	CIPAL CONTRACTOR	(Name of fin	n)
☐ E. STATE ☐ F. STAT	E CONTRACTOR	(Name of firm)	_ U G. (OTHER		(Specify)	OB TELEPHO	NE NO
05 CHIEF INSPECTOR		06 TITLE				07 ORGANIZATION		
Colleen Ranney		Public Hea	alth S	oecialist		NUS Corp.	(201) 22	
09 OTHER INSPECTORS		10 TITLE	-			11 ORGANIZATION	12 TELEPHO	
Charlotte Ryden		Civil Eng	ineer	<u> </u>		NUS Corp.	⁽ 201) 22	5-6160
							(001)	OF 6-6-
Joseph Logan		Chemical	Engine	er		NUS Corp.	(201) 2	25-6160
Jerry Cirilli		Geologist				NUS Corp.	201) 22	5-6160
								
							()	
							 	
							()	
13 SITE REPRESENTATIVES	MTERVIEWED	14 TITLE		15ADDRESS			16 TELEPH	ONE NO
•	HICHAICHED	Executive		110 110-1-1-	۲.	Buffalo, NY 14220	716 8	27_7010
Jerry Hobbs		Vice Presid	ent	TIO HODKINS	St.	Builaio, N1 14220	710 (7010
Dist. Hatliina		Dlant Maint	ananca	110 Honkins	S†	Buffalo, NY 14220	(716) 8	27-7010
Dick Watkins		Flanc Marito	enance	110 Hopkins	50.	Burraro, W. I tees	1	
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								-
							()	
				 				
					1 .			
17 ACCESS GAINED BY	18 TIME OF INSPECTION	19 WEATHER CO	NOITIONS	<u></u>				
(Check one) PERMISSION WARRANT	9:00 a.m.	Overcast,	hot, h	umid, steady	bre	eze from west-sout	hwest	
IV. INFORMATION AV	AILABLE FROM							
01 CONTACT		02 OF (Agency/Org	penization)				03 TELEPHO	
Mark Haulenbeek		U.S. EPA,	Regio	n II			(201) 3	21-6685
	FOR SITE INSPECTION FORM	05 AGENCY		ORGANIZATION		07 TELEPHONE NO.	08 DATE	
Colleen Ranney	,		NUS	Corporation		201-225-6160		31 / 84
i		ı	1	•		1	HTMOM	DAY YEAR

ŞEPA

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

I. IDENTIFICATION					
01 STATE	02 SITE NUMBER				
NY	0059961003				

ACI	A	PART 2 - WAST	E INFORMATIO	NY DOS	9961003		
II. WASTES	TATES, QUANTITIES, AN	ID CHARACTER	ISTICS	· · · · · · · · · · · · · · · · · · ·	-		
O1 PHYSICAL S A. SOLID B. POWDE C. SLUDGE	TA SOLID TE SLURRY B. POWDER, FINES X F LIQUID C SLUDGE TONS _ CUBIC YARDS _ CUBIC YARDS _		ITY AT SITE of resie quantities independent;	## TOXIC X E SOLUBLE TI TOXIC X E SOLUBLE TO TOXIC X E SOLUBLE TO TOXIC			
	- Specify)	NO OF DRUMS					· · · · · · · · · · · · · · · · · · ·
CATEGORY	SUBSTANCE N		Las cross August	02 UNIT OF MEASUR	5 00 501115175	·	
SLU	SLUCGE		OT GROSS AMOUNT	OZ ONIT OF MEASUR		icating oil and	solvents
OLW	OILY WASTE		7000	gal/yr a	 	tored in drums	
SOL	SOLVENTS		Unknown	321,31		làmation dealer	
PSD	PESTICIDES		Olikilowii			y stored in fib	
occ	OTHER ORGANIC CH	EMICAL S				waste hauler.	ergrass cank
ioc	INORGANIC CHEMIC		-	<u> </u>		oxide sludge in	settling
ACD	ACIDS		3000-4000	gal/yr b			
BAS	BASES		3000-4000	yai/yi -		ments from slud carted away to	
MES	HEAVY METALS		Unknown	c	landfill.	canted away to	muustriai
	OUS SUBSTANCES	Scandit for most fragues		<u> </u>	Trangiti.		
01 CATEGORY			03 CAS NUMBER	C4 STORAGE/DI	SPCSAL METHOD	05 CONCENTRATION	06 MEASURE OF
OLW	Spent lubricat			Carted to reclamation dealer			CONCENTRATION
MES	Chromium Hydro		1308-14-1	Settling lag		Unknown	
MES			18624-44-7			Unknown	
ACD	Iron Hydroxide Spent pickling		10024-44-7	Settling lagoon Settling lagoon; at present		1	
ACD	Spelle prekring	Tiquoi			stored in tanks		
				and pumped o			
			-	hauler.			
	<u>.</u>		· .	nauter.			
							1
			 				
				<u> </u>			
				-			
	<u> </u>		+				
	·		 				
-	 		 				
V. FEEDSTO	CKS (See Appendix for CAS Numb	eg!	<u> </u>	<u>. </u>		1	1
CATEGORY	01 FEEDSTOC		02 CAS NUMBER	CATEGORY	O1 FEEDST	OCK NAME	02 CAS NUMBER
FDS	Sulfuric Acid		7664-93-9	FDS			
FDS	JULIULIC ACIO		7004-93-9	FDS			
FDS			-	FDS	-		
FDS			 	FDS	 		
VI SOURCES	S OF INFORMATION ICII.		<u></u>		L		
NYS DEC	C Files			•			

\$EPA

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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY D059961003

II. HAZARDOUS CONDITIONS AND INCIDENTS		
01 Z A GROUNDWATER CONTAMINATION	02 ☐ OBSERVED (DATE:	¥ 22-1-1-1
03 POPULATION POTENTIALLY AFFECTED: 1000	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	E POTENTIAL ALLEGED
The settling lagoon is unlined. With the	exception of a few commercial wells	3.5 miles away, groundwater
is used for industrial purposes only.	•	-
01 X B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 360,000	02 X OBSERVED (DATE: 7/11/84) 04 NARRATIVE DESCRIPTION	C POTENTIAL C ALLEGED
Nickel and selenium were detected in surfa		
to EPA for surface waters. The lagoon dra	ins through a channel to the adjace	nt wetlands which drain to
Lake Erie. Drinking water intake for part used for commercial, transportation , and	of the City of Buffalo is about 4.	5 miles away. Take Erie is
01 T C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 TOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	E POTENTIAL E ALLEGED
	,	
No potential exists.	•	
	•	
<u> </u>		
01 \$ D. FIRE EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: 150	02 TOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	© ALLEGED .
Waste oil is stored on-site. Improper sto	rage could present a fire hazard.	
	•.	·
01 Y E. DIRECT CONTACT	02 [OBSERVED :DATE:]	X POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Unknown		·
The pond is accessible from other than the	plant entrance.	
· · · · · · · · · · · · · · · · · · ·		
01 X F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: 0.5	02 TOBSERVED (DATE 7/11/84) 04 NARRATIVE DESCRIPTION	I POTENTIAL I ALLEGED
Reddish stained soil was found adjacent to	the settling pond. The contaminate	ed area could have resulted
from overflow conditions of the pond during	g periods of high rainfall. Inorga	nic elements were detected
in amounts greater than what should natura	lly be present in the soil. Organi	contaminants detected
included PAH's and PCB's.		
01 X: G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 360,000	02 G OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	E POTENTIAL CALLEGED
Drinking water intake for city of Buffalo	water supply is 4.5 miles downstream	n in Lake Erie.
	:	
01 CI H. WORKER EXPOSURE/INJURY	02 © OBSERVED (DATE:)	© POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 150	04 NARRATIVE DESCRIPTION	E / C/Civing
Worker injury is possible through careless.	handling of sulfuric acid feedstoc	k or pickling liquor and
sludge pit wastes.		· '
•	•	•
01 TI. POPULATION EXPOSURE: INJURY	02 ☐ OBSERVED (DATE:)	C POTENTIAL C ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	
	•	
No potential exists.		
·		•

\$EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION
01 STATE 02 STE NUMBER
NY D059961003

PART O DECOME TOOL O	
IL HAZARDOUS CONDITIONS AND INCIDENTS (Continued	
01 CXJ. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 Ø OBSERVED (DATE: 7/11/84) D POTENTIAL DALLEGED
Natural vegetation on the berms near the	drainage channel of lagoon has been replaced by species
characteristic of acidic soils.	
01 (2) K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 OBSERVED (DATE:) X POTENTIAL ALLEGED
Wetlands are inhabited by both resident	and migratory water fowl.
01 Ø L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 - OBSERVED (DATE:) - E POTENTIAL - ALLEGED
The potential exists due to contaminat	ed surface water, soil, and sediments at the site.
01 M. UNSTABLE CONTAINMENT OF WASTES	02 (2 OBSERVED (DATE: 7/11/84) POTENTIAL ALLEGED
(Spills/runoff/standing liquids/leaking drums) 03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION
No dikes present around lagoon. The lag	moon is unlined.
No arkes present around ragoon. The ray	,
01 DN. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:) POTENTIAL ALLEGED
No potential exists.	
no potential exists.	
	WATER 02 CORSERVED (DATE:) 2 POTENTIAL C ALLEGED
01 ☑ O. CONTAMINATION OF SEWERS, STORM DRAINS, V 04 NARRATIVE DESCRIPTION	YWIFS UZ OBSENYED (UNIC
· · · · · · · · · · · · · · · · · · ·	nitery sewer. According to Ramco representatives, the discharge
is monitored.	
01 ☑ P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE: 7/11/84) D POTENTIAL D ALLEGED
Drums and debris were observed on fille	d area north of lagoon.
bruins and debris here observed on time	· · · · · · · · · · · · · · · ·
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OF	ALLEGED HAZARDS
One carbon steel tank with a total sto	rage capacity of 2000 gallons is used for the storage of sulfurio
acid feedstock. It was not known if it	was rubber lined. No spill control was observed around the tank.
	· · · · · · · · · · · · · · · · · · ·
III. TOTAL POPULATION POTENTIALLY AFFECTED:	360,150
IV. COMMENTS	
According to the background material, Ra	mco Steel discharged 6,000 gals/wk of waste water H ₂ SO ₄ , 9% iron
	oon on site. This process was discontinued in 1979.
·	
V. SOURCES OF INFORMATION (Cite specific references, e. g., 2	
U.S.E.P.A. Federal file	Telephone communication with Ray Rozanski on 9-4-84 at 2 pm.
N.Y.D.E.C. State file	
Site inspection 5/11/83, 7/11/84	

POTENTIAL HAZARDOUS WASTE SITE

		FICATION
01	STATE	OZ SITE NUMBER
	NY	D059961003

OCIA	8 PART 4 - PERMIT	ITE INSI AND DES				NY D059961003 .
II. PERMIT INFORMATION					····	
01 TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE IS	SUED .	04 EXPIRATION DATE	05 COMMENTS	
A. NPDES						
□ B. UIC						
CXC. AIR					Several perm	nits exist.
I D. RCRA						
DE. RCRA INTERIM STATUS	NYD059961003				Application	submitted
E. SPCC PLAN					7,001,100,010,101	
ZG. STATE (Specific)	0074977				SPDES permi	it for discharge to
TH. LOCAL Society						longer valid.
□ I. OTHER (Specify)			-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
I J. NONE		1				
III. SITE DESCRIPTION	<u> </u>	<u> </u>				
01 STORAGE: DISPOSAL (Check as that apply) 0	2 AMOUNT 03 UNIT OF	MEASURE	04 TF	REATMENT (Chock ad that a	00/y)	05 OTHER
答 A. SURFACE IMPOUNDMENT	5 acre	es	ПА	INCENERATION		
☐ 8. PILES				UNDERGROUND INJ	ECTION	· M A. BUILDINGS ON SITE
	<u>50 gallo</u> i		Æ C.	CHEMICAL/PHYSICA	\L	1 .
古 D. TANK, ABOVE GROUND (3) 10			□ D.	BIOLOGICAL		
	nknown sludge	e pits	□ E.	WASTE OIL PROCES	SING	06 AREA OF SITE
G F. LANDFILL			☐ F. SOLVENT RECOVERY			23
G. LANDFARM			☐ G. OTHER RECYCLING/RECOVERY		(Acres)	
C H. OPEN DUMP	nknown		□ H.	OTHER	ecity)	
I I OTHER SOWER	IKIJOWII			•		
07 COMMENTS						
The plant had SPDES permit fo						
was withdrawn when the plant						
out using NaOH in an effort t	o neutralize the po	ond. Pi	ickli	ng liquor is n	low temporari	ly stored in tanks
and then transported off-site						
Waste water enters industrial	•		-			
out and hauled away by reclam						•
IV. CONTAINMENT						
01 CONTAINMENT OF WASTES (Check one)	·					
☐ A. ADEQUATE, SECURE	Ø B. MODERATE	□ C. IN	ADEQ	JATE, PÖOR	C D. INSECUR	RE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, LINERS, BA	RAIERS, ETC.					
No diversion or containment s	tructures were note	ed arour	nd ac	id feedstock o	r waste equa	llization tanks.
		<i>:</i>				
		•				
V. ACCESSIBILITY						
01 WASTE EASILY ACCESSIBLE: YES	80 NO					
The plant is surrounded by a	chain link fence w	with per	sonn	el present at	all times.	
VI. SOURCES OF INFORMATION ICIIO SDOC	dic references, e.g. state liles, sample	analysis, /ego	uzi			
		,				
N.Y.D.E.C. State file	•					
U.S.E.P.A. Federal file	•				•	
Site inspection 5/11/83, 7/1	_					
Telephone communication with	Ray Rozanski on 9-	-4-84 at	2:0	0 pm.		

	DOTE	NTIAL HAZAR	DOUS WASTE SI	TE	L IDENTIFICATION		
\$EPA		SITE INSPECT	TON REPORT C, AND ENVIRONN		NY	D059961003	
II. DRINKING WATER SUPPLY							
01 TYPE OF DRINKING SUPPLY		02 STATUS	•		03 0	ISTANCE TO SITE	
(Check as applicable) SURFA	CE WELL	ENDANGERE	D AFFECTED	MONITORED			
COMMUNITY A. C	x 8. □	A. 🗆	В. 🗀	c. ♀	A	4.5(mi)	
NON-COMMUNITY C. C.	ù 0. □	D. 🖸	€. □	F. 03	B	4 5 (mi)	
III. GROUNDWATER							
01 GROUNDWATER USE IN VICINITY (neck one)	,				1	
☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING ② C. COMMERCIAL, INDUSTRIAL, IRRIGATION ☐ D. NOT USED, UNUSEABLE (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)							
02 POPULATION SERVED BY GROUNG	WATER 0 (Within 3	3 mile radius)	03 DISTANCE TO NEAR	EST DRINKING WATER	WELL	5.0 (mi)	
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GRO	OUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIEL OF AQUIFER	۰ م	08 SOLE SOURCE AQUIFER	
0-10 (ft)	west		15(ft)	10000	_(gpd)	□ YES	
og DESCRIPTION OF WELLS (including u Wells in the area a)			only. The wat	er is not pota	ble.		
10 RECHARGE AREA			11 DISCHARGE AREA				
CI YES COMMENTS			TO YES COMME	NTS Surficia	l aquif	er discharges to	
₫ NO			NO Lake l	Erie. Bedrock <u>is minimial.</u>	. aquife	er discharge in this	
IV. SURFACE WATER							
O1 SURFACE WATER USE (Check one) A. RESERVOIR, RECREATION DRINKING WATER SOURCE		ON, ECONOMICALLY NT RESOURCES	C. COMMERC	CIAL, INDUSTRIAL	□ 0	NOT CURRENTLY USED	
02 AFFECTED/POTENTIALLY AFFECT	ED BODIES OF WATER	<u>,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,</u>		-			

TLY USED AFFECTED . DISTANCE TO SITE NAME: (mi) Ramco Steel Settling Pond (mı) Lake Erie (mi) \Box V. DEMOGRAPHIC AND PROPERTY INFORMATION 02 DISTANCE TO NEAREST POPULATION 01 TOTAL POPULATION WITHIN THREE (3) MILES OF SITE TWO (2) MILES OF SITE ONE (1) MILE OF SITE c. 50,000 A. 5.000 NO. OF PERSONS B. 20.000 NO. OF PERSONS 04 DISTANCE TO NEAREST OFF-SITE BUILDING 03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 0.1 3500

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

The area surrounding the site can be described as a medium density urban area. Interspersed commercial development and residential areas are interspersed east of the site. To the north and south are industrial facilities and landfills. To the west of the site exist railroad yards, wetlands, and Lake Erie.

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION

01 STATE 02 SITE NUMBER

NY D059961005

VEPA		IIC, AND ENVIRONMENTAL DATA NY D059961005					
VI. ENVIRONMENTAL INFORMA							
01 PERMEABILITY OF UNSATURATED 2	ZONE (Check ane)	·					
X⊇ A. 10 ⁻⁶ – 10 ⁻	-8 cm/sec ☐ 8. 10-4 - 10-6 cm/sec ☐	C. 10 ⁻⁴ - 10 ⁻³ cm/sec ☐ D. GREATER THAN 10 ⁻³ cm/sec					
02 PERMEABILITY OF BEDROCK -Creck	ones						
😧 A. IMPERN (Less inan	MEABLE B. RELATIVELY IMPERMEAB	LE C. RELATIVELY PERMEABLE D. VERY PERMEABLE (10-2 - 10-4 cm sec) (Greater than 10-2 cm sec)					
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH					
_60-80(ft)	(ft)	5-6					
06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	OB SLOPE	CI 005				
8 (in)	(in)	SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE 1-2 % West 0-2					
09 FLOOD POTENTIAL	10						
SITE IS IN YEAR FLO	C SITE IS ON BARR	ER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY					
11 DISTANCE TO WETLANDS (5 acre minut	num)	12 DISTANCE TO CRITICAL HABITAT (of endangered species)	·· · · ·				
ESTUARINE	OTHER	(mi)					
A(mi)	в. <u>Adjacent</u> (mi)	ENDANGERED SPECIES: Osprey, red-shouldered ha	wk,				
13 LAND USE IN VICINITY		- COMMON ACT N	-				
COMMERCIAL/INDUSTR		RESERVES PRIME AGLAND AGLAND None exist in area					
A. <u>on site</u> (mi)	в. <u>0.1</u>	(mi) C(mi) D	(mi)				
separated by elevate	ed berms where railroads cross,	t terrain. Marshlands and ponds predominate, and landfilled areas. Surface drainage from the brough conduits under the railroad berms.					
VII COURCE OF INFORMATIO	N -						
· · · · · · · · · · · · · · · · · · ·	N (Cite specific references, e.g., state files, sample analysis,						
NYS Water Resources	_	New York, Basin Planning Report					
ENB-3, 1968		· · · · · ·					
Correspondence from	Wayne K. Gall, Administrator,	Tifft Farm Nature Preserve, May 18, 1983					

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

	ENTERCATION		
O1 STATE	02 SITE NUMBER		
	D059961003		

SAMPLES TAKE	EN	•	•		
SAMPLE TYPE		01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	_	03 ESTIMATED DATE RESULTS AVAILABL
SAMPLE ITPE		37 <u>25</u>	Organics	Inorganics	
GROUNDWATER		ļ			
SURFACE WATER	۹ 	4	Gulf South Research Inst.	JTC	9/11/84
WASTE					
AIR					
RUNOFF					
SPILL					
SOIL .		. 9	Gulf South Research Inst.	JTC	9/11/84
VEGETATION					
OTHER					
I. FIELD MEASU	REMENTS TA	KEN			
		revealed read	In HNU photoionization detector (lings of 4 ppm at one location allocation allocation allocation allocation)	ong fence on northea	
V. PHOTOGRAPI	IS AND MAP	s			
TYPE IS GROU	ND C AERIAL	•	02 IN CUSTODY OF NUS Corporation	nization or individual)	
03 MAPS 04 LOCATION OF MAPS X☐ YES NUS Corporation			on, Edison, NJ		
	DATA COLLE	CTED (Provide narrative de	escription)		
Field notes v	vere recor	ded in NUS Corp	poration Field Notebook No. 185,	TDD #02-8303-116A.	
	•		\$ v		
					•
/I. SOURCES OF	INFORMATION	ON (Cite specific references.	e g , state files, sample analysis, reports)		
Site Inspecti	ons, 5/11	/83 and 7/11/84			

		POTENTIAL HAZ	ZARDOUS WASTE SITE	LIDENTY	
≎EPA		SITE INSP	ECTION REPORT NER INFORMATION	01 STATE 02 SITE NUMBER NY D059961003	
II. CURRENT OWNER(S) 1001 - D			PARENT COMPANY (II applicable)		
II. CURRENT OWNER(S) 1981 - PI	i széli r	02 D+B NUMBER	OB NAME		09 D+8 NUMBER
Ramco-Fitzsimmons Steel Cor	p. Inc.				
03 STREET ADDRESS (P O Bos. RFD s. elc)	<u> </u>	04 SIC CODE	10 STREET ADDRESS (P O Bos. RFD . acc)		11 SIC CODE
P.O. Box 399			·		
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	1 4 ZIP COOE
Buffalo	L_NY	14240			
01 NAME		02 D+8 NUMBER	08 NAME		09 D + B NUMBER
O3 STREET ADDRESS (P O Box. RFD 4. atc)		04 SIC CODE	10 STREET ADDRESS IP O BOS, RED		1 1 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	1 4 ZIP CODE
01 NAME		02 D+8 NUMBER	08 NAME		09 D+B NUMBER
				•	
03 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
					· .
O1 NAME		02 D+8 NUMBER	OB NAME		09 D+ B NUMBER
]	· · · · · · · · · · · · · · · · · · ·		<u> </u>
03 STREET ADDRESS (P O. Boz. RFO #. etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box. RFD #, +ic.)		11 SIC CODE
	100 0515	7-22-005		T. a a z . z z	
05 CITY	UBSIAIR	07 ZIP CODE	12 CITY	ISSIAIE	14 ZIP CODE
III DESTINATE OWNERS		<u> </u>	IV PEALTY OWNERS		
III. PREVIOUS OWNER(S) (List most recent	hrsii 1972 -	1981 L	IV. REALTY OWNER(S) (If applicable, its	t most recent first)	02 D+B NUMBER
		1.			
Ramco Steel Inc. 03 STREET ADDRESS (P.O. BOX, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
P.O. Box 399		3316	,		
05 CITY	OBSTATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
Buffalo	. NY	14240			-
01 NAME		02 0+8 NUMBER	OI NAME .		02 0+8 NUMBER
Bliss and Laughlin Steel 192	29 - 1972				<u> </u>
: 03 STREET ADDRESS (P.O. 862, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD + +1c)		04 SIC CODE
281 E 155th St.	IOR STATE	107 ZIP CODE	ÓS CITY	106 STATE	07 ZIP CODE
03 611 7					
OI NAME	1 111	60426 02 D+B NUMBER	01 NAME		02 O+B NUMBER
					1
03 STREET ADDRESS (P.O. Box. RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P O. Box. RFD #. etc.)		04 SIC CODE
OSCITY	06STATE	07 ZIP CODE	05 CITY	OB STATE	07 ZIP CODE
V. SOURCES OF INFORMATION (Cres	pecific references.	e.g., state files, sample analys	us, reports)		
Erie County Department of E	nvironmen	t and Planning	"Selected Erie County Inact	ive Disposal	Site Profiles,"
September 1981.					•
NYD DEC Files		•			
Site Inspection 7/11/84		·			
PA FORM 2070-13 (7-81)					

9	ED/	Ì
T		t

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

I. IDENTIFICATION		
01 STATE	02 SITE NUMBER	
NY	0059961003	

II. CURRENT OPERATOR (Provide if different from owner)			OPERATOR'S PARENT COMPANY (# applicable)			
O1 NAME			02 D+8 NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P O. E	Box, RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Bos. RFD #, etc.)		13 SIC CODE
DS CITY	-	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER			· · · · · · · · · · · · · · · · · · ·		
III. PREVIOUS OPERA	TOR(S) ¡List most recent	first, provide on	ly if different from owner)	PREVIOUS OPERATORS' PAREN	IT COMPANIES (#	applicapie)
01 NAME			02 D+B NUMBER	10 NAME		11 D+B NUMBER
D3 STREET ADDRESS (P.O. E	lox. RFD #. etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFO #, etc.)		13 SIC CODE
DS CITY	. <u></u>	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
DB YEARS OF OPERATION	09 NAME OF OWNER	DURING THI	S PERIOD			<u> </u>
01 NAME	1		02 D+B NUMBER	10 NAME		11 D+B NUMBER
D3 STREET ADDRESS (P.O. B	os, RFD €, etc.j		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	18 ZIP CODE
DB YEARS OF OPERATION	09 NAME OF OWNER	DURING TH	I			
DI NAME). : 02 D+6 NUMBER	10 NAME	· · · · · · · · · · · · · · · · · · ·	11 D+B NUMBER
D3 STREET ADDRESS (P.O. 8	ox, RFD #, #10.)		04 SIC CODE	12 STREET ADDRESS (P.O Box, RFD #, etc.)		13 SIC CODE
D5 CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
DB YEARS OF OPERATION	09 NAME OF OWNER	DURING THI	SPERIOD			
IV. SOURCES OF INFO	RMATION (Cite speci	fic references. (e.g., state files, sample analys	is, (eports)	•	
	,			<u> </u>		

02 D+8 NUMBER 04 SIC CODE 3316 07 ZIP CODE 14220 02 D+8 NUMBER	O1 NAME O3 STREET ADDRESS (P.O Box, RFO #, BIC.)		22 D+B NUMBER
02 D+8 NUMBER 04 SIC CODE 3316 07 ZIP CODE 14220 02 D+8 NUMBER	O1 NAME	C	12 O + B NUMBER
04 SIC CODE 3316 07 ZIP CODE 14220 02 D+B NUMBER		c	12 D+8 NUMBER
04 SIC CODE 3316 07 ZIP CODE 14220 02 D+B NUMBER		- Ic	12 O + B NUMBER
3316 07 ZIP CODE 14220 02 D+B NUMBER			12 O + B NUMBER
3316 07 ZIP CODE 14220 02 D+B NUMBER			12 O + B NUMBER
07 ZIP CODE 14220 02 D+B NUMBER			12 D+B NUMBER
14220 02 D+B NUMBER 04 SIC CODE			12 D+B NUMBER
02 D+B NUMBER			12 O + B NUMBER
04 SIC CODE		C	12 D+B NUMBER
04 SIC CODE		C	12 D+B NUMBER
	03 STREET ADDRESS (P.O Box, RFO #, atc.)		
	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
			04 SIC CODE
07 ZIP CODE	05 CITY	O6 STATE	D7 ZIP CODE
	•	- 1	
02 D+B NUMBER	01 NAME		02 D+B NUMBER
Total sic cons	03 STREET ADDRESS to 0 200 and 050 and		04 SIC CODE
04 SIC CODE	00 STREET ADDRESS (M.U. 801, NFD F, etc.)		OF SIC CODE
07 719 0005		Top or tret	77 718 6025
OF AIR CODE	OS CITY	UBSIAIE	17 ZIP CODE
	<u> </u>		
02 0+8 NUMBER	01 NAME		02 D+B NUMBER
	Browing-Ferris, Inc.		
04 SIC CODE	03 STREET ADDRESS (P. O. Box. RFD *, etc.)	ı	04 SIC CODE
	714 Division Street		
	05 CITY	OB STATE	07 ZIP CODE
<i>!</i> !	F13	lиJ	•
02 D+B NUMBER	01 NAME		02 D+B NUMBER
104 SIC CODE	03 STREET ADDRESS (P.O. Box. RED. # MC.)	<u> </u>	04 SIC CODE
			,
07.719.0005	OF CITY	IOE STATE	
U/ ZIP CODE	U3 CITY	JO STATE	J. ZIF CODE
L6H106			
e.g., state lifes, sample analysis	s. reports)	·	
	04 SIC CODE 07 ZIP CODE 07 ZIP CODE 04 SIC CODE 07 ZIP CODE 07 ZIP CODE L6H106	04 SIC CODE 03 STREET ADDRESS (P.O. 802, RFD *, etc.) 07 ZIP CODE 05 CITY 01 NAME Browing-Ferris, Inc. 04 SIC CODE 03 STREET ADDRESS (P.O. 802, RFD *, etc.) 714 Division Street 07 ZIP CODE 05 CITY Flizabeth 01 NAME 04 SIC CODE 03 STREET ADDRESS (P.O. 802, RFD *, etc.) 07 ZIP CODE 05 CITY 07 ZIP CODE 05 CITY	O4 SIC CODE O5 CITY O6 STATE (O2 D+8 NUMBER O1 NAME Browing-Ferris, Inc. O4 SIC CODE O3 STREET ADDRESS (P.O. Box. RFD *. etc.) 714 Division Street O7 ZIP CODE O5 CITY Flizabeth O1 NAME O4 SIC CODE O3 STREET ADDRESS (P.O. Box. RFD *. etc.) Flizabeth O7 ZIP CODE O3 STREET ADDRESS (P.O. Box. RFD *. etc.) O7 ZIP CODE O5 CITY O6 STATE (O7 ZIP CODE O5 CITY O6 STATE (O6 STATE (O7 ZIP CODE O5 CITY O6 STATE (O6 STATE (O6 STATE (O7 ZIP CODE O5 CITY O6 STATE (O6 STATE (O7 ZIP CODE O5 CITY O6 STATE (O6 STATE (O7 ZIP CODE O5 CITY O6 STATE (O6 STATE (O7 ZIP CODE O5 CITY O6 STATE (O6 STATE (O7 ZIP CODE O5 CITY O6 STATE (O7 ZIP CODE O5 CITY O6 STATE (O7 ZIP CODE O5 CITY O6 STATE (O7 ZIP CODE O5 CITY

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

L IDENTIFICATION

01 STATE 02 SITE NAMES

NV D059961003

	PART 10 - PAST RESPONSE ACTIVITIES	
II. PAST RESPONSE ACTIVITIES		
01 G A. WATER SUPPLY CLOSED.	02 DATE	03 AGENCY
04 DESCRIPTION		
No past response	DED 02 DATE	03 AGENCY
01 D B. TEMPORARY WATER SUPPLY PROVID 04 DESCRIPTION		OU NOLINO!
No past response.	20.7.7	
01 C. PERMANENT WATER SUPPLY PROVID 04 DESCRIPTION	ED 02 DATE	03 AGENCY
No past response.		
01 © D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
No past response.		
01 □ E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	O2 DATE	O3 AGENCY
No past response.	000047	02.4051/69
01 ☐ F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY
No past response.		OZ ACENCY
01 G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY
No past response	00.0475	02 405467
01 □ H. ON SITE BURIAL 04 DESCRIPTION	O2 DATE	03 AGENCY
No past response. 01 🗔 I. IN SITU CHEMICAL TREATMENT.	O2 DATE UNKNOWN	03 AGENCY Ramco Steel
O1 값I N SITU CHEMICAL TREATMENT. O4 DESCRIPTION . Sodium Hydroxide used to raise pH o		
01 ☐ J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
No past response.		
01 ☐ K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
No past response.		
01 ☐ L. ENCAPSULATION 04 DESCRIPTION	O2 DATE	O3 AGENCY
No past response.		
01 G M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	O2 _, DATE	03 AGENCY
No past response.		
01 ☐ N. CUTOFF WALLS 04 DESCRIPTION	O2 DATE	03 AGENCY
No past response.		
01 TX O. EMERGENCY DIKING/SURFACE WATE 04 DESCRIPTION	R DIVERSION 02 DATE Unknown	Railfuau
Berm has been constructed to chan	nel lagoon overflow north to wetland a	
01 ☐ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY
No past response.		
01 G O. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE	03 AGENCY

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

L IDENTIFICATION

O1 STATE O2 SITE NUMBER

NY D059961003

VLIA	PART 10 - PAST RESPONSE ACTIVITIES	NY 10059961003
II PAST RESPONSE ACTIVITIES (Continued)	· · · · · · · · · · · · · · · · · · ·	
01 G R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
No past response.		
01 ☐ S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY
No past response.		
01 T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY
No past response		
01 TU. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	. 03 AGENCY
No past response.		
01 © V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	
No past response.		
01 © W. GAS CONTROL 04 DESCRIPTION	02 DATE	
No past response.		
01 TX. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
No past response.		
01 C Y. LEACHATE TREATMENT 04 DESCRIPTION		03 AGENCY
No past response.		
01 T Z. AREA EVACUATED 04 DESCRIPTION	O2 DATE	03 AGENCY
No past response		
01 C 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	O2 DATE	03 AGENCY
No past response.		
01 ☐ 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY
No past response		
01 Z 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY
No past response.		•
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	: ' '	
		·
	•	4

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

N.Y.D.E.C. State file U.S.E.P.A. Federal file Site Inspections 5/11/83, 7/11/84



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

L IDENTIFICATION

01 STATE 02 SITE NUMBER NY 0059961003

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION : TX YES TO NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY ENFORCEMENT ACTION

The NYS Department of Environmental Conservation, Division of Solid Waste performed a facility inspection on the settling pond on 8/21/78 and 8/29/78. Inspection reports were filled out, but no enforcement action is known to have occurred as a result of the inspections.

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

N.Y.D.E.C. State File



SITE LOCATION MAP
RAMCO STEEL, BUFFALO, N.Y.

SCALE: 1"= 2000"

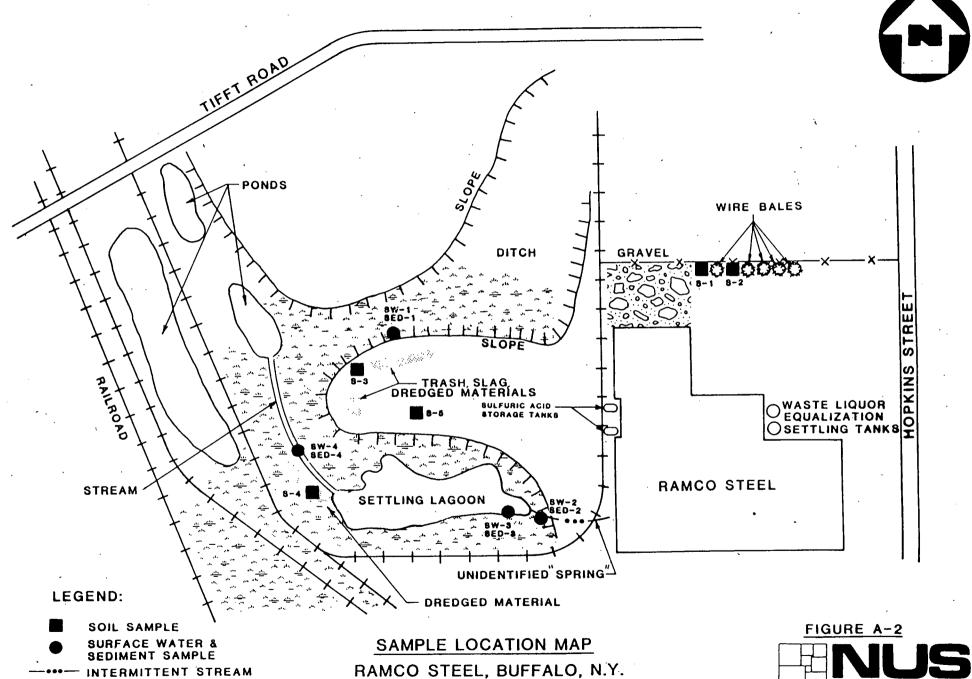


SECTION 5.4

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.

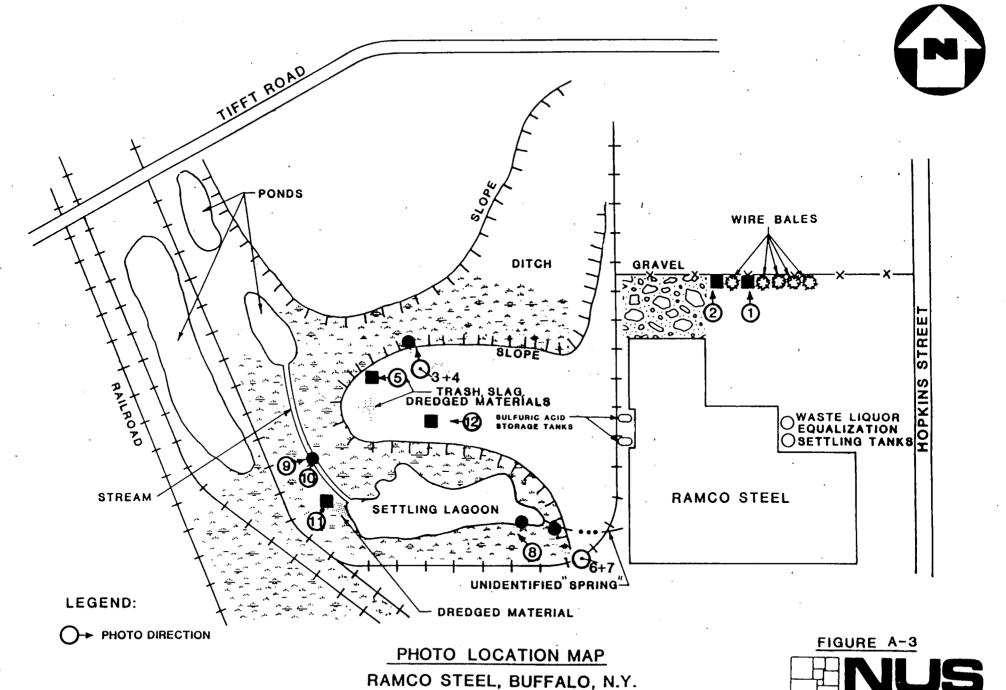
FACILITY NAME: Ramco Steel	
LOCATION: 110 Hopkins Street, Buffalo, Erie County, New York	Hopkins Street, Buffalo, Erie County, New York Evember 1988 Linda Michalczak OF INFORMATION: NYSDEC Region 9, EPA Region II ED DUE TO INSUFFICIENT INFORMATION:
DATE SCORED: November 1988	_
PERSON SCORING: Linda Michalczak	_
PRIMARY SOURCE(S) OF INFORMATION: NYSDEC Region 9, EPA Region II	
FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:	
	_
COMMENTS OR QUALIFICATIONS:	



(NOT TO SCALE)

A Halliburton Company

INTERMITTENT STREAM



(NOT TO SCALE)

CORPORATION

A Halliburton Company

RYS

FIT QUALITY ASSURANCE TEAM

DOCUMENTATION RECORDS

FOR

HAZARD RANKING SYSTEM

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

FACILITY NAME:	Ramco - Fitzsimmons Steel Corp.				
LOCATION:	Buffalo, New York				
DATE SCORED:	December 4, 1984				
PERSON SCORING:	Charlotte Ryden				

PRIMARY SOURCE(S) OF INFORMATION (e.g., EPA region, state, FIT, etc.):
NUS Corporation, Region II FIT

FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:

COMMENTS OR QUALIFICATIONS:

Air route scored zero because:

- 1. there has been no previously observed release;
- 2. no readings above background were detected on the HNu photoionizer during the 7/11/84 site inspection; and
- on-site inspection on 7/11/84 revealed little potential for particulate release from the metallic sludges located at the bottom of the lagoon. However, air sampling for particulates has not been performed.

GROUNDWATER ROUTE

I OBSERVED RELEASE

Contaminants detected (5 maximum):

None, no groundwater samples were taken.

Rationale for attributing the contaminants to the facility:

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern;

Onondaga limestone. Water is transmitted through solution - enlarged joints.

Ref: #2

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

Same as depth to bedrock, about; 62 feet.

Ref: #2 Depth determined from test boring one mile northwest of site.

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

About 5 feet

Net Precipitation

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

34 inches

Ref: MITRE - Figure 5

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

26 inches

Ref: MITRE - Figure 4

Net precipitation (subtract the above figures):

8 inches

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Silty clay

Ref: #2

Permeability associated with soil type:

Low permeability

 $10^{-6} - 10^{-8}$ cm/sec

Ref: Site Inspection 7/11/84

Physical State

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

Liquid, (spent pickling liquor)

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Surface impoundment: silty clay bottom, essentially non permeable, but no leachate collection system or diversion system are present. Waste equalization tanks; fiberglass lined tanks.

Ref: Site Inspection, 7/11/84

Method with highest score:

Surface impoundment, with no run-on diversion structure.

Ref: Mitre - Table 3

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Cadmium, selenium, tin, lead, zinc, copper, phenanthrene, benzo (a) fluoranthene chrysene, benzo (a) pyrene and PCB's 1260 and 1254.

Ref: Site Inspection 7/11/84 sampling results

Compound with highest score:

Lead, benzo (a) pyrene, and PCB's all have toxicity and persistence values of 3, matrix values of 18.

Ref: Mitre - pg. 16-23

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):

1354 cubic yards

Basis of estimating and/or computing waste quantity:

Surface impoundment = 5 acres

Maximum of 2 inches of metal hydroxide precipitate on bottom. Pickling liquor disposed of there for 50 years.

5 acres = 217,800 sq. ft. x 1/6 ft = 36,155 cu. ft. = 1344 cu. yds. Sulfuric acid feedstock tanks, volume = 2000 gal. = 9.9 cu. yd. Waste equalization tanks have containment score of 0.

5 TARGETS

Groundwater Use

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

Industrial

Ref: #2

Distance to Nearest Well

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

Well #251-850-1,2 Donner - Hanna Coke Corp., Industrial

Ref: #2

Distance to above well or building:

1 mile

Ref: #2

Population Served by Groundwater Wells Within a 3-Mile Radius

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

Workers in factory using groundwater, exposed by means other than drinking. Population 100-1000

Ref: #2

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

None

Ref: #2

Ref: #6

Total population served by groundwater within a 3-mile radius:

100-1000

SURFACE WATER ROUTE

1 OBSERVED RELEASE

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

None to date

Rationale for attributing the contaminants to the facility:

Not applicable

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

0-2%

Ref: #6 Site Inspection, 7/11/84.

Name/description of nearest downslope surface water:

Wetlands which drain westward to Lake Erie

Ref: #6

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

1%

Ref: #6

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

Yes

Is the facility completely surrounded by areas of higher elevation?

No

Ref: Site Inspection, 7/11/84

1-Year 24-Hour Rainfall in Inches

2 inches

Ref: Site Inspection, 7/11/84

Distance to Nearest Downslope Surface Water

Adjacent

Ref: Site Inspection, 7/11/84

Physical State of Waste

Liquid with solid precipitate Ref: Site Inspection, 7/11/84

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Surface impoundment

Waste equalization tanks

Method with highest score:

Surface impoundment. It drains to adjacent wetlands.

Ref: Mitre - Table 9

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Cadmium, selenium, tin, lead, zinc, cooper, phenanthrene, benzo (a) fluoranthene chrysene, benzo (a) pyrene and PCB's 1260 and 1254.

Ref: Site Inspection 7/11/84 smapling results

Compound with highest score:

Lead, benzo (a) pyrene, and PCB's all have toxicity and persistence values of 3, matrix values of 18.

Ref: Mitre - P 16-23

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):

1354 cubic yards

Basis of estimating and/or computing waste quantity:

Five acre surface impoundment with maximum of 2 inches metal hydroxide precipitate. 217,800 sq. ft x 1/6 it = 36,155 cu. ft. = 1344 cu. yds. sulfuric acid feedstock tanks volume = 2000 gal. = 10 cu. yds. Waste equalization tanks have containment score of 0.

Ref: Site Inspection, 7/11/84

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance: Lake Erie: Recreational, commercial near site. Drinking water withdrawn from

lake 4.5 miles away. Ref: #3

Is there tidal influence?

No

Ref: #6

Distance to a Sensitive Environment

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

Not applicable

Ref: #6

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

Adjacent to eastern Lake Erie wetlands. Tifft Farm Nature Preserves is 3000 feet west of site.

Ref: #6 USGS Buffalo SE Quad, Site Inspection 7/11/84

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

3000 feet. Endangered species which frequent Tifft Farms include osprey and redshouldered hawk.

Ref: #1

Population Served by Surface Water

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

None

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

Not applicable

Total population served:

For recreational and commerical purposes: 3000 to 10,000; for drinking purposes:

Ref: #8

Name/description of nearest of above water bodies:

Lake Erie, in vicinity of site, is used for commercial transportation, boating and fishing.

Ref: #8

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

1 mile

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

None

Date and location of detection of contaminants

Not applicable

Methods used to detect the contaminants:

An HNu photoionizer used during the 7/11/84 site inspection showed no levels above background. Air sampling for particulates has not been performed.

Rationale for attributing the contaminants to the site:

Not applicable

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Not applicable

Most incompatible pair of compounds:

Not applicable

Toxicity

Most toxic compound:

Not applicable

Hazardous Waste Quantity

Total quantity of hazardous waste:

Not applicable

Basis of estimating and/or computing waste quantity:

Not applicable

3 TARGETS

Population Within 4-Mile Radius

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

0 to 4 mi

0 to 1 mi

0 to 1/2 mi

0 to 1/4 mi

Not applicable

Distance to a Sensitive Environment

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

Not applicable

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

Not applicable

Distance to critical habitat of an endangered species, if 1 mile or less: Not applicable

Land Use

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

Not applicable

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less: Not applicable

Distance to residential area, if 2 miles or less:

Not applicable

Distance to agricultural land in production within past 5 years, if 1 mile or less: Not applicable

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

Not applicable

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

Not applicable

FIRE AND EXPLOSION

1 CONTAINMENT

Hazardous substances present:

Sulfuric acid feedstock
Spent lubricating oil
Spent pickling liquor
Metal hydroxide sludge

Type of containment, if applicable:

Spent lubrication oil is ignitable individually. It is temporarily stored in drums in a confined area of the facility. Sulfuric acid feedstock and spent pickling liquor are incompatible with many compounds. However, the sulfuric acid feedstock is stored in carbon steel tanks and the spent liquor is stored in fiberglass-lined tanks, isolated from other materials at the facility.

Ref: #5 Ref: #7

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

No measurements were made.

Ignitability

Compound used:

Lubricating oil

Ref: #5

Reactivity

Most reactive compound:

Sulfuric acid

Ref: #5

Incompatibility

Most incompatible pair of compounds:

Sulfuric acid is incompatible with water or any oxidizing or reducing materials.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

1401 cubic yards

Basis of estimating and/or computing waste quantity:

1339 cubic yards - surface impoundment62 cubic yards - acid feedstock tank, waste equalization tanks, spent oil (drums)Ref: #7 Site Inspection, 7/11/84

3 TARGETS

Distance to Nearest Population

Lagoon is 75 feet from building where workers are present.

Ref: Site Inspection 7/11/84

Distance to Nearest Building

75 feet

Ref: Site Inspection 7/11/84

Distance to Sensitive Environment

Distance to wetlands:

Adjacent'

Ref: Site Inspection 7/11/84

Distance to critical habitat:

0.5 miles to Tifft Farms Nature Preserve

Ref: Site Inspection 7/11/84 and Correspondence from Wayne K. Gall.

Land Use

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

75 feet

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

0.5 miles

Ref: Site Inspection 7/11/84

Distance to residential area, if 2 miles or less:

1000 feet

Ref: #6

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

None

Ref: #6

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

less:

None

Ref: #6

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

No

Ref: Site Inspection 7/11/84

Population Within 2-Mile Radius

22,700+ (City of Lackawanna)

Ref: #4

Ref: #6

Buildings Within 2-Mile Radius

More than 2600

DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No reported incidents

Ref: Site Inspection, 7/11/84

* * *

2 ACCESSIBILITY

Describe type of barrier(s):

A fence blocks the facility from the road. However, the fence ends at the railroad tracks at the southern boundary of the property allowing access to the lagoon.

Ref: Site Inspection 7/11/84

* * *

3 CONTAINMENT

Type of containment, if applicable:

The acidic waters of the lagoon and the metal hydroxide precipitate are accessible for direct contact.

Ref: Site Inspection 7/11/84

* * ;

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Lead, benzo (a) pyrene, PCB's

Ref: Site Inspection 7/11/84, sampling results

Compound with highest score:

All the above have a toxicity rating of 3

Ref: Mitre

5 TARGETS

Population Within One-Mile Radius

Approximately 5000 people

Ref: #4 Ref: #6

Distance to Critical Habitat (of Endangered Species)

0.5 miles to Tifft Farms Nature Preserve

Facility name: Ramco Steel Corp.
Location: Buffalo, New York
EPA Region:
Person(s) in charge of the facility: Ramco-Fitzsimmons Steel Corp., Inc.
Jerry Hobbs, Vice President
Name of Reviewer: Charlotte Ryden Date: 12/5/84
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.)
Ramco Steel is an active steel pickling and processing facility with
a 5 acre inactive settling lagoon located at the rear of the property
Waste pickling liquor was discharged to the settling lagoon from
1929 to 1979. Metals in solution were precipitated out using NaOH
leaving metallic hydroxide sludges visible at the bottom of the
lagoon. The lagoon drains through an open channel to an adjacent
wetland area which drains to Lake Erie.
Scores: $S_{M} = 12.95 (S_{gw} = 13 S_{sw} = 18 S_a = 0)$
S _{FE} = 55.0
S_{DC} = 62.5

FIGURE 1 HRS COVER SHEET

	Ground Water Route Work Sheet							
	Rating Factor		Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
0	Observed Release		O 45	1	0	45	3.1	
	If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.							
2	Route Characterist Depth to Aquifer		0 1 ② 3	2		6	3.2	
	Concern Net Precipitation Permeability of t	he	0 1 ② 3 0 ③ 2 3	1	2	3	·	
	Unsaturated Zo Physical State	ne 	0 1 2 3	1	3	3	,	
			Total Route Characteristics Score		10	15		
3	Containment		0 1 2 3	1	2	3	3.3	
4	Waste Characteris Toxicity/Persiste Hazardous Wast Quantity	ence	0 3 8 9 12 15 (B) 0 1 2 3 4 5 6 (7)	1 3 1	18 7	18 8	3.4	
		·	Total Naste Characteristics Score		25	26		
5	Targets Ground Water U Distance to Nea Well/Populatio Served	rest	0 1 2 3 0 4 6 8 10 16 18 20 24 30 32 35 40	3 1	3 ; 2	9 40	3.5	
			Total Targets Score		15	49		
<u></u>		multiply nultiply	1 x 4 x 5 2 x 3 x 4 x 5		1500	57.330		
7	Divide line 6 t	y 57,330	and multiply by 100	Sgw	/3.	0322		

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Surface Water Route Work Sheet								
	Rating Factor		Assigned Value (Circle One)		Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release) 	<u> </u>	5	1	O	45	4.1
			alue of 45, proceed alue of 0, proceed				. ~	
2	Route Characterist Facility Slope an		0 1 2 ③		1	3	3	4.2
	1-yr. 24-hr. Rainf Distance to Near Water		0 ① 2 3 0 1 2 ③		1 2	6	3 6	
	Physical State		0 1 2 ③	,	1	3	3	
		Tot	al Route Characteris	itics Score		13	15	
3	Containment	-	0 1 2 ③		1	3	3	4.3
4	Waste Characteris Toxicity/Persiste Hazardous Wast Quantity	ence	0 3 6 2 12 0 1 2 3 4	15 (8) 5 6 (7) 8	1 1	7	18	4.4
		Tot	al Waste Characteri	stics Score		25	26	
3	Targets Surface Water U Distance to a Se	•	0 1 (2) 3 0 1 2 (3	>	3 2	6	9 8	4.5
	Population Serve to Water Intake Downstream	ed/Distance	0 4 6 8 12 16 18 20 24 30 35		1		40	
	t- -		Total Targets So	core		12	55	
8		multiply 1 nultiply 2				. 11700	64,350	·
7	Divide line 6 b	y 84,350 and	multiply by 100		S _{sw} =	13.	1313	

FIGURE 7
SURFACE WATER ROUTE: WORK SHEET

	Sheet					
	Air Route Work Sheet	Multi-	Score	Max. Score	Ref. (Section)	
Rating Factor	(Circle One)	1	. ()	45	5.1	
Observed Release	0 45			L	<u></u>	7
Date and Location:						\neg
Sampling Protocol:						\neg
If line 1 is 0, the S_g If line 1 is 45, then	= 0. Enter on line 5. proceed to line 2.				5.2	
Waste Characteristics Reactivity and Incompatibility Toxicity Hazardous Waste Quantity	0 1 2 3 0 1 2 3 0 1 2 3 4 5 6 7	i 3 8 1		3 9 8		
	Total Waste Characteristics Sco	ore			20	.3
3 Targets Population Within 4-Mile Radius Distance to Sensiti Environment Land Use	0 9 12 15 18 21 24 27 30 0 1 2 3		1 2 1		30 6 3	
	Coora				39	
	Total Targets Score				35,100	
4 Multiply 1 ×	2 x 3)	
5 Divide line 4	by 35,100 and multiply by 100		Sa -		<u></u>	

FIGURE 9
AIR ROUTE WORK SHEET

	s	s²
Groundwater Route Score (Sgw)	13.0322	171.1423
Surface Water Route Score (S _{SW})	13 1313	33).5795
Air Route Score (Sa)	0	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$		501.7213
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		22.3971
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		12.9475

FIGURE 10
WORKSHEET FOR COMPUTING S_M

Fire and Explosion Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
1 Containment	1 3	1	3	3	7.1	
Waste Characteristics Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity	(a) 3 0 1 (2) 3 0 1 (2) 3 . (a) 2 3 0 1 2 3 4 5 6 (7) 8	1 1 1 1	02217	3 3 3 3 8	7.2	
	Total Waste Characteristics Score		12	20	,	
3 Targets Distance to Nearest	0 1 2 3 4 5	1	4	5	7.3	
Population Distance to Nearest	0 1 ② 3		. 2	3		
Building Distance to Sensitive	0 1 2 3	1	3	3	•	
Environment Land Use	0 1 2 3	1	3	3		
Population Within 2-Mile Radius	0 1 2 3 4 (5)	1		5		
Buildings Within 2-Mile Radius	0 1 2 3 4 5	1	5	5		
•				•		
					·	
	Total Targets Score		22	24]	
4 Multiply 1 x 2 x	3]		792	1,440		
5 Divide line 4 by 1,440	and multiply by 100	SFE	- 5	5		

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

	Direct Contact Work Sheet							
	Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)		
1	Observed Incident	6 , 45	1	0	45	8.1		
	If line 1 is 45, proceed to 1 is 0, proceed to 1							
2	Accessibility	0 1 2 3	1	3	3	8.2		
3	Containment	0 (15)	1	15	15	8.3		
1	Waste Characteristics Toxicity	0 1 2 3	5	15	15	8.4		
3	Targets Population Within a 1-Mile Radius Distance to a Critical Habitat	0 1 2 3 4 5	4	/6 4	20 12	8.5 -		
		Total Targets Score	,	20	32			
डि	If line 1 is 45, multiply if line 1 is 0, multiply	/ 1 x 4 x 5 2 x 3 x 4 x 5		1351	21,600			
7			SDC	- 62	.5			

FIGURE 12 DIRECT CONTACT WORK SHEET

Summary Statement Ramco Steel Buffalo, New York

The Ramco Steel site is located in the southern part of the City of Buffalo, Erie County, New York. The site is situated in a medium density urban area with commercial and residential developments interspersed to the east, and industrial facilities and landfills located to the north and south. West of the site are railroad yards and what remains of the great wetlands of the eastern shore of Lake Erie.

The 23 acre site consists of an active steel pickling and processing facility with an inactive 5-acre settling lagoon located at the rear of the facility. Waste pickling liquor was discharged to the settling lagoon from 1929 to 1979. In 1978, metallic sulfates in solution were precipitated out using NaOH, leaving metallic hydroxide sludges visible at the bottom of the lagoon.

Of primary concern is surface water contamination to the downstream drainage area. The lagoon drains through an open channel to the adjacent wetlands which drain to Lake Erie. Tifft Farms Nature Preserve, a NYS Protected Wetland, is located less than 0.5 miles away.

The Ramco Steel site is owned by Ramco-Fitzsimmons Steel Corp., Inc. It has been sampled by the NYS Department of Environmental Conservation and the Erie County Department of Environment and Planning. The Erie County sampling confirmed metal contamination in the surface water and sediments of the lagoon.

REFERENCE 4

Uncontrolled Hazardous Waste Site Ranking System

A Users Manual (HW-10)

Originally Published in the July 16, 1982, Federal Register

United States Environmental Protection Agency

1984

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF HAZARDOUS WASTE REMEDIATION INACTIVE HAZARDOUS WASTE DISPOSAL REPORT

CLASSIFICATION CODE: 2a

REGION: 9

COUNTY:

SITE CODE: 915046 EPA ID: NYD000961003

NAME OF SITE : Ramco Steel

STREET ADDRESS: 110 Hopkins Street

TOWN/CITY:

Erie Buffalo

ZIP:

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

ESTIMATED SIZE: Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME....: Ramco Steel CURRENT OWNER ADDRESS .: 110 Hopkins St., Buffalo, NY OWNER(S) DURING USE...: Ramco Steel, Bliss & Laughlin OPERATOR DURING USE...: Ramco Steel, Bliss & Laughlin

OPERATOR ADDRESS.....: 110 Hopkins Street, Buffalo, NY

PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From unknown To 1979

SITE DESCRIPTION:

Ponds at the rear of the plant were used to dispose of waste pickle liquors, rinse water, lime sludge, iron and chrome. The practice of using the ponds for waste disposal has been discontinued. U.S.G.S. investigation and analysis of samples taken from the site indicated heavy concentration of lead in one surface water sample. Erie County site profile report of September 1981 indicates that the adjacent landfill (Alltift landfill) is known to have hazardous industrial wastes and recommend additional investigations to determine its possible impact on the Ramco site. A site inspection by EPA consultants (NUS) on 5/11/83 noted some spillage on the site. The report recommended enforcement action to correct housekeeping and removal of metallic sludges in the settling lagoon.

HAZARDOUS WASTE DISPOSED: Confirmed-X Suspected-

QUANTITY (units)

pickle liquor rinse water & lime sludge iron and chrome

75,000 gal/yr 6,000,000 gal/yr unknown

SITE CODE: 915046

ANALYTICAL DATA AVAILABLE:

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

CONTRAVENTION OF STANDARDS:

Groundwater- Drinking Water-

Surface Water-

Air-

LEGAL ACTION:

TYPE..: none

State-

Federal-

STATUS: Negotiation in Progress- Order Signed-

REMEDIAL ACTION:

Proposed- Under design-

In Progress-

Completed-

NATURE OF ACTION: none

GEOTECHNICAL INFORMATION:

SOIL TYPE: cinders, rock fill underlain by clay

GROUNDWATER DEPTH: unknown

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Surface water has been found to have lead in heavy concentration. Additional investigation is necessary to assess the environmental

problems.

ASSESSMENT OF HEALTH PROBLEMS:

Medium	Contaminants Available	Migration Potential	Potentially Exposed Population	Need for Investigation
Air	Likely	Highly Likely	Yes	High
Surface Soil	Likely	Highly Likely	Yes	High
Groundwater	Likely	Unlikely	Yes	Medium
Surface Water	Likely	Unlikely	Yes	Medium

Health Department Site Inspection Date : 6/85

MUNICIPAL WASTE ID:

PROJECT Ranco Ste.	e/	Continued Fro	m Page
Site Reconn	aissance 11/	3/88 Neath	er: Sunny 40-450
		Slight	Wird
10:02 Arrive at	Site - Ken	Shisler Recra	
Meet Mr. I	Dan Watkins	Whodescribes eu	rent operation
uhile tour in	rg facility.	No acid pickling a	f steel down
at plant an	y longer Waste	acid storage tai	eks have been
removed.	Large polypropol	lene acid bath	tanks inside
part are	being sold to	Thing. One of the	Tank is still
used to con	at steel with	hydrated lime th	at prevents rust
and provides	an absorbent	- layer for oil	to soak into.
Scale from r	aw bars which a	are purchased fr	om the mill
15 removed	by sleet short	blast machine	s. Darge 8451
collecters	remove the stead	lust creates.	
M. 11 44	40 + 41 +	L . 10 0 1 1 1 1 1 1	Transport
117 Halking	pointed my that	anger summer sign	e short (see shite
around from	along aw no	illegal lumping as on south side o	p p c c p q q c
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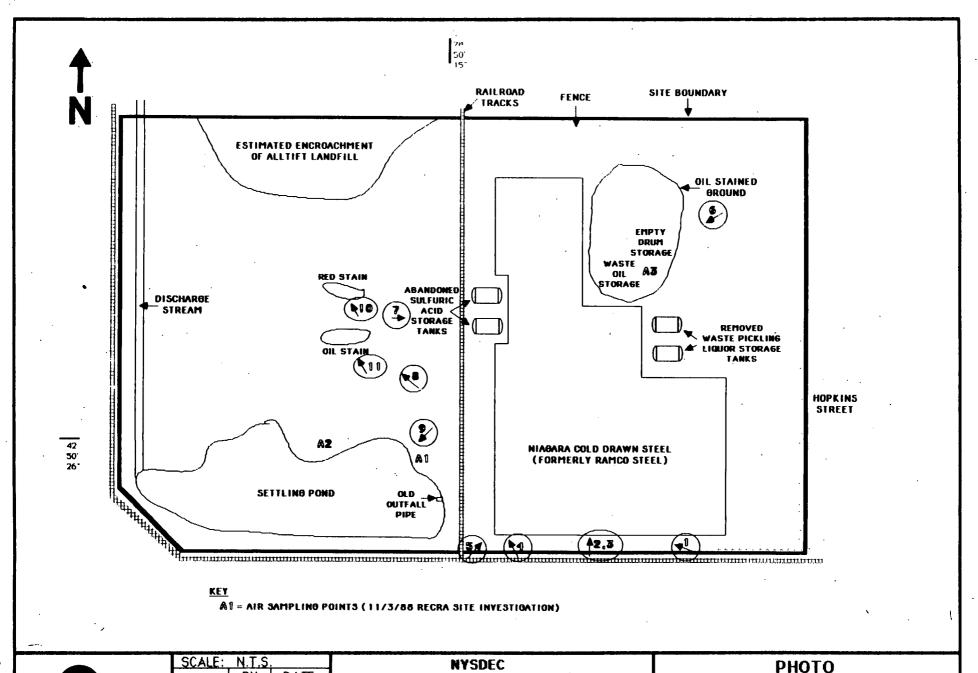
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PHASE I INVESTIGATION

RAMCO STEEL

SITE * 915046

8C1301DD

LOCATION

MAP

R77

BY

LMM

DWN

APPYD

CKD

REV.

DATE

12/88

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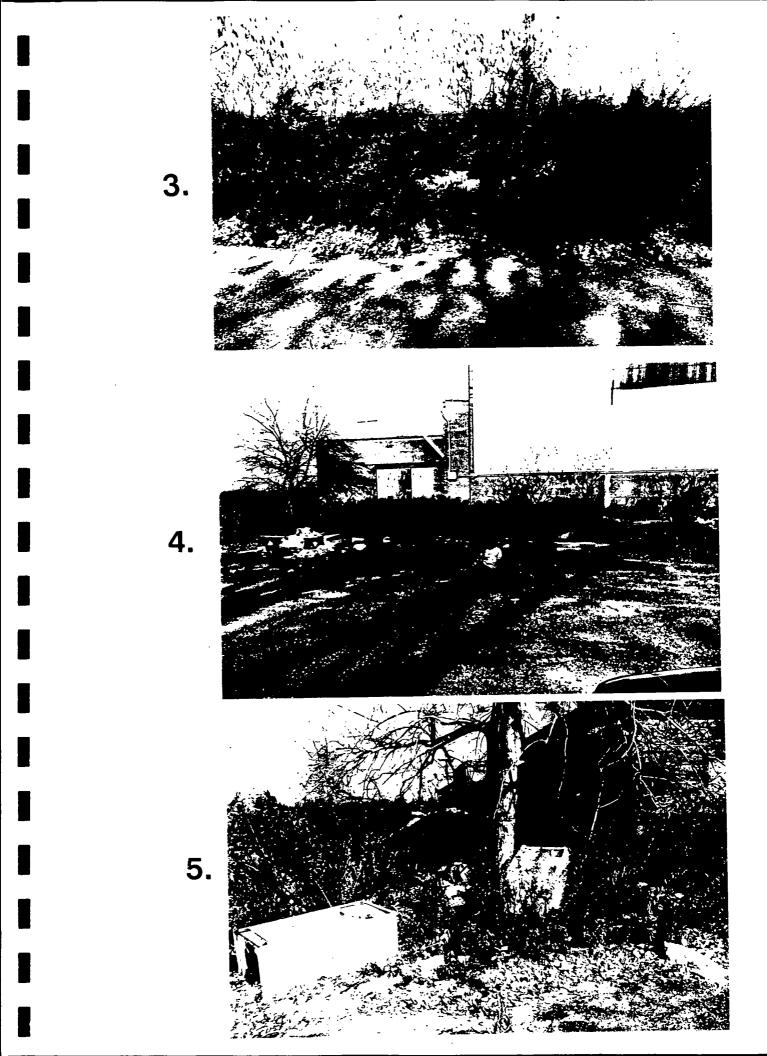
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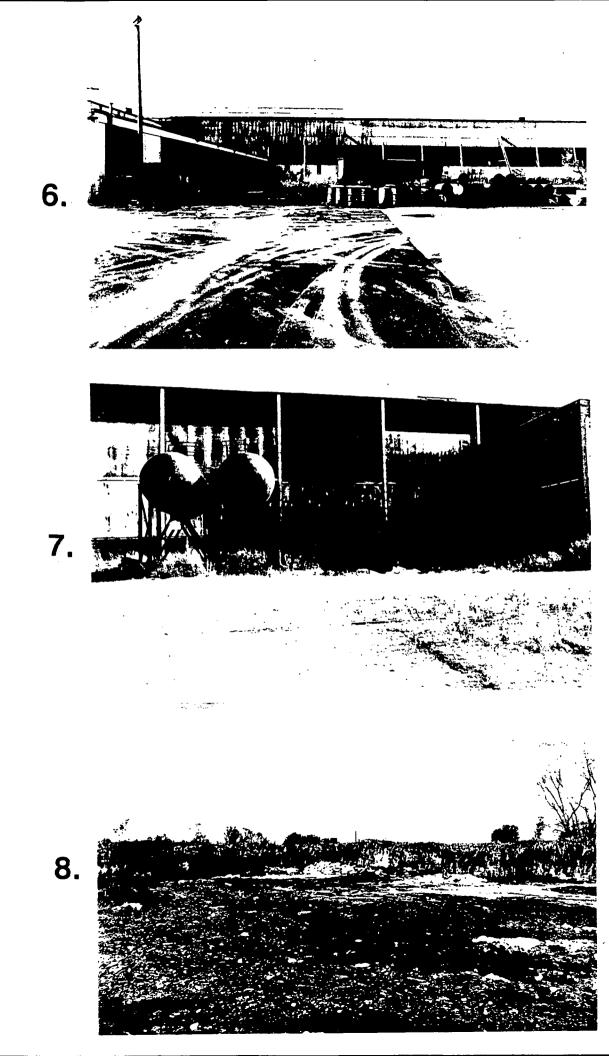
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10.



R83



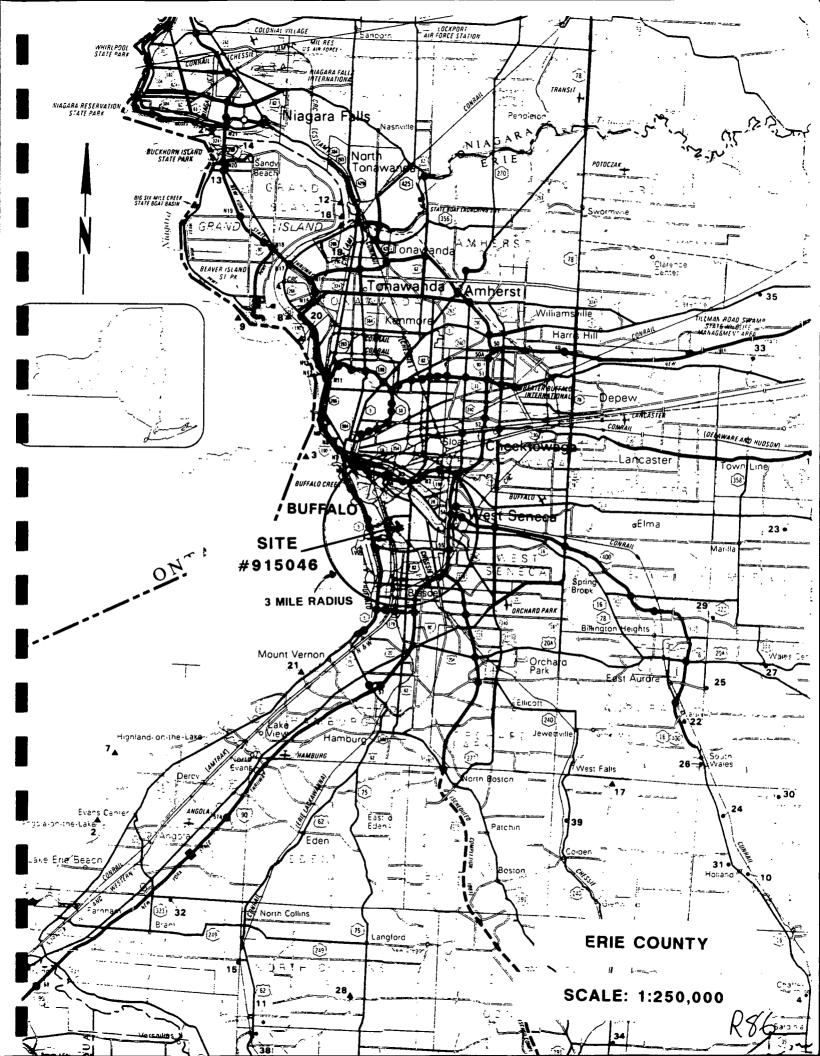
New York State Atlas of Community Water System Sources

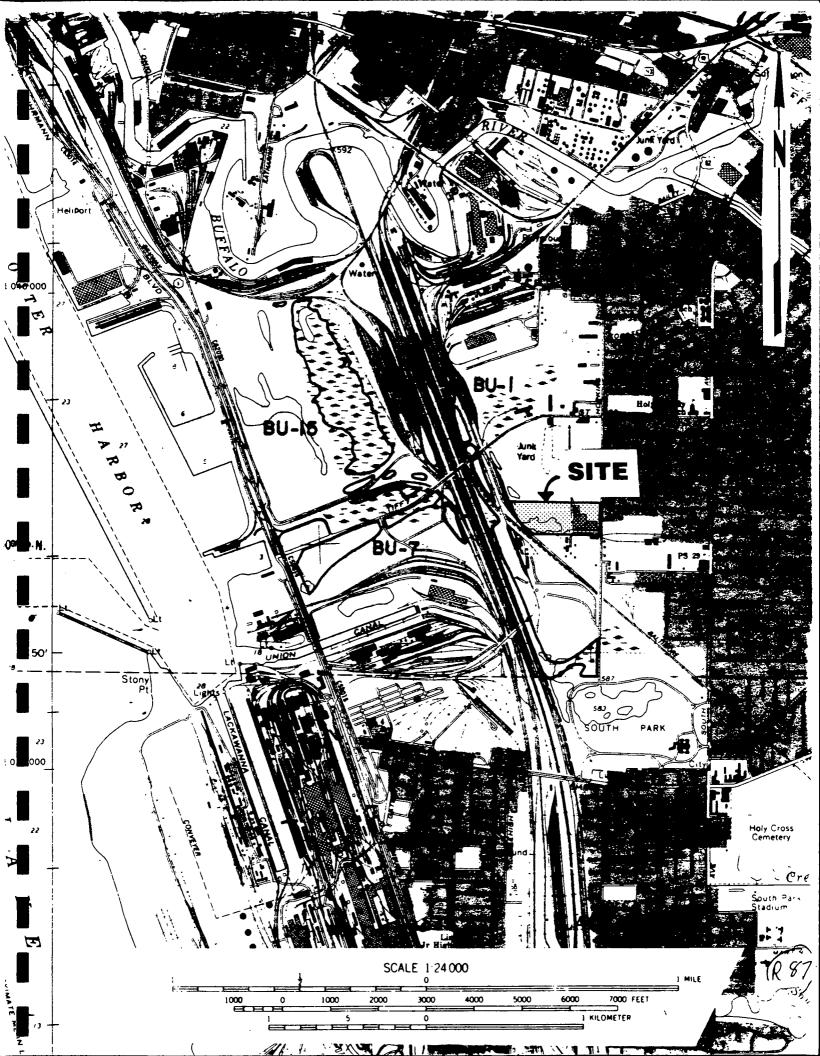
NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF PUBLIC WATER SUPPLY PROTECTION

ERIE COUNTY

ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE	
Munic	ipal Community			
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R85





Erie County May 12 of 51

This map was promulgated, pursuant to Article 24 of the Enfironmental Conservation Law The Freshwater Wetlands Act) on the total the Commissioner of New York State Department of Engironmental Conservation.

LEGEND:

8. N

opproximate wetland Soundary

V Upland inclusion

AA-00 Wetland identification code

NOTES.

This map indicates the applicationate location of the actual boundaries of sestimate regulated according to the Fresh lister Wellands Act.

Map information other than the wedged boundaries was prepared by the New York State Department of Transportation and the United States Geological Survey. The idea-tional information provided on the map is for reference only. Marsh symbols do not necessarily indicate the location of a requiated wetland.

Adjacent areas of the regulated wetlands are those areas within 100 feet of the boundary of the wetland. These areas are subject to regular tion pursuant to the Freshwater Wellands Act but are not delineated on this map. An adjacent area may be extended by associal order of the Commissioner of the New York State Department of Environmental Conservation or the local regulatory authority.

Copies of Freshwater Wetlands Maps are available from the regional offices of the Department of Environmental Conservation. Maps are available for inspection at these offices and local government cleries offices.

REVISIONS

Date	Wetland ∉	Descript(n of change		

R88

TECHNICAL PAPER NO. 40

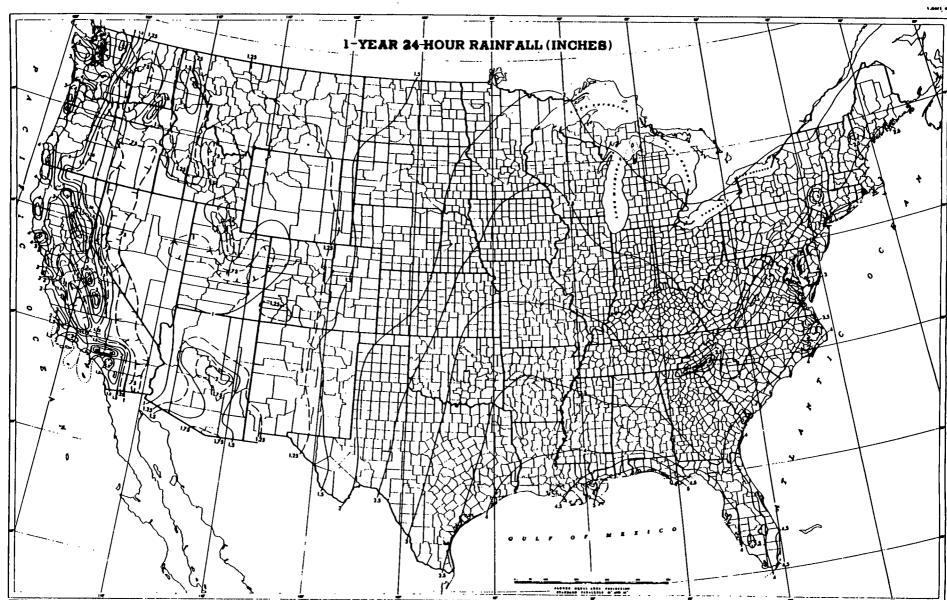
RAINFALL FREQUENCY ATLÁS OF THE UNITED STATES

for Durations from 30 Minutes to 24 Hours and Return Periods from 1 to 100 Years

Prepared by
DAVID M. HERSIFIELD
Cooperative Studies Section, Hydrologic Services Division

Engineering Division, Soil Conservation Service U.S. Department of Agriculture





R90

New York State Department of Environmental Conservation

Information Services
Wildlife Resources Center
Delmar, NY 12054-9767

August 11, 1989

ALIG 1 6 1989

RECRA ENVIRONIVILIATAL INC.

Thomas C. Jorling Commissioner

Ms. Linda Michalczak Recra Environmental, Inc. 10 Hazelwood Drive Amherst, New York 14150

Dear Ms. Michalczak:

We have reviewed the Significant Habitat Program and the Natural Heritage Program files with respect to the Phase I investigation of the Ramco Steel site located on Hopkins Road, Buffalo, Erie County.

We did not identify any potential impacts on endangered, threatened, or special concern wildlife species, rare plant, animal or natural community occurrences, or other significant habitats.

The absence of data does not necessarily mean that rare or endangered elements, natural communities or other significant habitats do not exist on or adjacent to the proposed site, but rather that our files currently do not contain any information which indicates the presence of these. Our files are continually growing as new habitats and occurrences of rare species and communities are discovered. In most cases, site-specific or comprehensive surveys for plant and animal occurrences have not been conducted. For these reasons, we cannot provide a definitive statement on the presence or absence of species, habitats or communities. This information should not be substituted for on-site surveys that may be required for environmental assessment.

This response applies only to known occurrences of rare animals, plants and natural communities and/or significant wildlife habitats. You should contact our regional offices(s), Division of Regulatory Affairs, at the address(es) on the enclosed list for information regarding any regulated areas or permits that may be required (e.g., regulated wetlands) under state law.

If this proposed project is still active one year from now we recommend that you contact us again so that we can update this response.

If we can be of further assistance please do not hesitate to contact us.

Sincerely,

Burrell Buffington

Significant Habitat Unit

Foeiles Voiends

Sixth Edition

IIIII N. Irving Sax MIIII

LUBRICATING OIL

Flash p: 315°-366°F; d: less than 1.00; autoign. temp: 783°F.

SYNS:

STRAW OIL LUBRICATING OIL, CYLINDER

LUBRICATING OIL, MOTORS LUBRICATING OIL, SPINDLE

LUBRICATING OIL (MAINLY MIN-

LUBRICATING OIL, TURBINE

THR: Can cause dermatitis. See also petroleum. Fire Hazard: Slight, when exposed to heat or flame. Spontaneous Heating: No.

Incomp: Oxidizing materials.

To Fight Fire: Spray, foam, CO2, dry chemical.

LUCANTHONE METABOLITE

CAS RN: 3105973

NIOSH #: XO 1590000

 $mf: C_{20}H_{24}N_2O_2S; mw: 356.52$

SYNS

I-((2-(DIETHYLAMINO)ETHYL)
AMINO)-4-(HYDROXYMETHYL)
THIOXANTHEN-9-ONE

1-((2-(DIETHYLAMINO)ETHYL)
AMINO)-4-(HYDROXYMETHYL)9H-THIOXANTHEN-9ONE

TOXICITY DATA:

pr-mus TDLo: 4800 mg/kg (10-12D

CODEN:

TJADAB 4,295,71 CBINA8 22,297,78

CHIMAD 29,8,75

CNREA8 38:4478.78

preg)
mmo-omi 200 ug/plate
cyt-hmn oth 5 gm/L
bin-mus/sat 60 mg/kg
dms-rbt-ivn 12500 ug/kg
mmo-sat 500 ug/L
mma-sat 25 nmol/plate
mmo-ssc 40 ug/L/5D
sin-dmg-par 50 mg/kg
simo-nsc 3 gm/L/2H
mmo-smc 270 umol/L
mrc-smc 270 umol/L
cyt-hmn:leu 2500 ug/L/72H
cyt-hmn:lym 20 mg/L/48H
cyt-hmn:lym 20 mg/L/48H

ARTODN 46,139,80 MUREAV 53,289,78 JPETAB 200.1.77 MUREAV 55,43,78 MUREAV 55,43,78 **PACHAS 42,209,75** MUREAV 55,43,78 MUREAV 21,52,73 PACHAS 42,209,75 MUREAV 55,43,78 **MUREAV 55,43,78** PACHAS 42,209,75 MUREAV 31,381,75 MUREAV 55,43,78 **ARTODN 38,75,77 GENTAE 92,S153,79** CNREA8 37,2202,77 MUREAV 55,43,78

sh-mus-unk 50 mg/kg
our-mus-emb 1 mg/L
cyt-mus-ipr 40 mg/kg
sac-mus-lym 10 umol/L/2H
cyt-ham:emb 5 mc/l

cyt-rat-ipr 80 mg/kg

sh-mus-par 30 mg/kg

hma-rat/smc 1 mmol/L/1H

ant-mus-ipr 80 mg/kg/2D

and musilym 10 umol/L/2H on ham emb 5 mg/L on ham iemb 5 mg/L on ham iemb 5 mg/L and mus TDLo:25 mg/kg/(7D

preg): TER

ms-rbt TDLo: 50 mg/kg/(7D

preg): TER

TICAR

orland Description

ori-rat LD50:980 mg/kg
scu-rat LD50:286 mg/kg
im-rat LD50:75 mg/kg
ori-mus LD50:1120 mg/kg
scu-mus LD50:270 mg/kg
im-mus LD50:70 mg/kg
im-mus LD50:253 mg/kg

JPETAB 197,703,76

MUREAV 55,43,78

CNREAS 37,2202,77

MUREAV 55,43,78

JTEHD6 1,309,75

JTEHD6 1,309,75

EJBLAB 1(2),181,74 EJBLAB 1(2),181,74 EJBLAB 1(2),181,74 EJBLAB 1(2),181,74 EJBLAB 1(2),181,74 EJBLAB 1(2),181,74 JPETAB 200,1,77

Toxicology 13,91,77. Review: EJBLAB 1(2),181,74; IARC**

THR: MUT data. An exper TER, CARC. HIGH scu, ivn, ims. MOD orl.

Disaster Hazard: When heated to decomp it emits very tox fumes of NO_x and SO_x.

LUCENSOMYCIN

CAS RN: 13058678

NIOSH #: OK 3850000

mf: C₃₆H₅₃NO₁₃; mw: 707.83

Crystalline powder; Insol in H₂O; anhydrous alc, nonpolar solvents; sol in pyridine, dimethyl formamide; Unstable beyond pH 6-8 and to heat, light or air.

3-2

SYNS:

ANTIBIOTIC 1163 F.I.

ETRUSCOMYCIN

TOXICITY DATA: dnd-esc 20 umol/L orl-mus LD50:1263 mg/kg ipr-mus LD50:37 mg/kg ivn-mus LD50:45 mg/kg CODEN: MUREAV 89,95,81 12VXA5 8,626,68 85ERAY 2,967,78 85ERAY 2,967,78

THR: HIGH ipr, ivn; MOD orl. MUT data.

Disaster Hazard: When heated to decomp it emits tox fumes of NO_r.

LUMILUTEOSKYRIN

CAS RN: 22333615

NIOSH #: LO 1420000

mf: C₃₀H₂₀O₁₂; mw: 572.50

TOXICITY DATA: mmo-sat 20 ug/2H

CODEN: JEPTDQ 2,313,78

THR: MUT data.

Disaster Hazard: When heated to decomp it emits acrid smoke and fumes.

LUNARINE HYDROCHLORIDE

NIOSH #: DF 8190000

mf: C₂₅H₃₃N₃O₅•ClH; mw: 492.07

Alkaloid isolated from Lunaria Biennis (JAPMA8 39,516,50)

SYN: 22H-BENZOFURO(3A,3-H)(1,5,10)TRIAZACYCLOEICOSINE-3,-14,22-TRIONE,4,5,6,7,8,9,10,11,12,13, 20A,21,23,24-TETRADECAHY-DRO-17,19-ETHENO-, HYDROCHLORIDE

TOXICITY DATA:

3 CODEN:

ivn-mus LD50:62 mg/kg ivn-rbt LDLo:70 mg/kg

JAPMA8 39,516,50 JAPMA8 39,516,50

THR: HIGH ivn.

Disaster Hazard: When heated to decomp it emits very tox fumes of HCl and NO_x.

LUNA YELLOW

CAS RN: 6358312

NIOSH #: EJ 3645000

SYNS:

C.I. 11741

NCI-C61132

C.I. PIGMENT YELLOW 74

622 CALCIUM BIS-p-IODYLBENZOATE

amounts of warm water. If the skin is involved, a shower is recommended. See also calcium compounds. For further information see Vol. 1, No. 8 of DPIM Report.

CALCIUM BIS-p-IODYLBENZOATE

mf: C₁₄H₈CaI₂O₈; mw: 598.098 Incomp: Has exploded violently.

CALCIUM MOLYBDATE

NIOSH #: EW 2975000 CAS RN: 7789824

mf: MoO₄ • Ca; mw: 200.02

CODEN: TOXICITY DATA: 28ZLA8 -,214,61 orl-rat LD50:101 mg/kg EQSSDX 1,1,75 ipr-rat LD50:208 mg/kg

OSHA Standard: Air: TWA 15 mg(Mo)/m3 (SCP-O) FEREAC 39,23540,74.

Reported in EPA TSCA Inventory, 1980.

THR: HIGH orl, ipr. See also molybdenum and calcium compounds.

CALCIUM(II) NITRATE (1:2)

NIOSH #: EW 2985000 CAS RN: 10124375

mf: N₂O₆ • Ca; mw: 164.1

SYN: CALCIÚM NITRATE (DOT)

TOXICITY DATA:

DOT: Oxidizer, Label: Oxidizer FEREAC 41,57018,76.

Reported in EPA TSCA Inventory, 1980.

THR: An irr. See nitrates and calcium compounds. See

 $Ca(NO_3)_2$ and tetrahydrate. Fire Hazard: See nitrates.

Disaster Hazard: See nitrates.

CALCIUM(II) NITRATE TETRAHYDRATE (1:2:4)

NIOSH #: EW 3000000 CAS RN: 13477344

mf: N₂O₆ • Ca • 4H₂O; mw: 236.18

Cubic, colorless, hygroscopic crystals. mp: 561.0°, d: 2.36.

SYN: DUSICNAN VAPENATY (CZECH)

CODEN: TOXICITY DATA: skn-rbt 500 mg/24H MOD 28ZPAK -,9,72 28ZPAK -,9,72 eye-rbt 500 mg/24H SEV 28ZPAK -,9,72 orl-rat LD50:3900 mg/kg

THR: MOD orl. A skn, eye irr. See also calcium compounds, nitrates.

Disaster Hazard: When heated to decomp it emits tox

fumes of NOr. For further information see Vol. 2, No. 1 of DPIM Report.

CALCIUM OXIDE

NIOSH #: EW 3100000 CAS RN: 1305788

mf: CaO; mw: 56.08

Cubic, colorless crystals. mp: 2580°, d: 3.37, bp: 2850°.

SYNS:

LIME

BURNT LIME CALCIA CALX

LIME, UNSLAKED (DOT) OXYDE DE CALCIUM (FRENCH)

OUICKLIME

WAPNIOWY TLENEK (POLISH)

LIME, BURNED

TOXICITY DATA:

Aquatic Toxicity Rating: TLm96:1000-100

WQCHM* 2,-,74.

TLV: Air: 2 mg/m3 DTLVS* 4,63,80. OSHA Standard Air: TWA 5 mg/m3 (SCP-N) FEREAC 39,23540,74 DOT: ORM-B, Label: None FEREAC 41,57018,76 "NIOSH Manual of Analytical Methods" VOL 3 S205 VOL 5 173#. Reported in EPA TSCA Inventory 1980.

THR: A caustic and irr material. A nutrient and/or di. etary supplement food additive. See calcium com. pounds. A common air contaminant. A powerful caus. tic to living tissue.

Disaster Hazard: Violent reaction with (B₂O₃ + CaCl)₂,

BF₃, CIF₃, F₂, HF, P₂O₅, water.

Incomp: Hydrogen fluoride; interhalogens; phospho-

rus(V) oxide; water.

For further information see Vol. 2, No. 1 of DPIM Re.

CALCIUM-d-PANTOTHENATE

NIOSH #: RU 4375000 CAS RN: 137086

mf: C₁₉H₃₄N₂O₁₀•Ca; mw: 490.63

White, slightly hygroscopic powder, odorless, sol in water and glycerol, insol in alcohol, chloroform and ether. mp: 170°-172°, decomp @ 195°-196°.

SYNS:

N-(2,4-DIHYDROXY-3,3-CALCIUM D(+)-N-(ALPHA, DIMETHYLBUTYRYL)-BETA-GAMMA-DIHYDROXY-ALANINE CALCIUM BETA, BETA-PANTOTHENATE CALCIUM DIMETHYLBUTYRYL)-(+)-PANTOTHENIC ACID BETA-ALANINATE CALCIUM SALT CALCIUM PANTOTHENATE VITAMIN B-5 D-CALCIUM PANTOTHENATE DEXTRO CALCIUM PANTOTHEN-

ATE

ivn-mus LD50:910 mg/kg

CODEN: TOXICITY DATA: PSEBAA 45,311,40 ipr-rat LD50:820 mg/kg PSEBAA 45,311,40 scu-rat LD50:3400 mg/kg PSEBAA 45,311,40 ipr-mus LD50:920 mg/kg PSEBAA 45,311,40 scu-mus LD50:2700 mg/kg PSEBAA 45,311,40

Reported in EPA TSCA Inventory, 1980.

THR: MOD ipr, scu, ivn. See also calcium compounds. A nutrient and/or dietary supplement food additive. Disaster Hazard: When heated to decomp it emits tox fumes of NOz.

CALCIUM PENTOBARBITAL

NIOSH #: CQ 5950000 CAS RN: 7563420 mf: C₁₁H₁₈N₂O₃•xCa; mw: 506.87

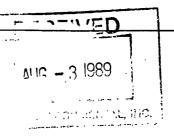
Census Code Name 6.U. C	Code 100%-80	7-82	Population 7-84	7-86	PCI 1979 1985	T Sul	b Rec p
	001401600 7062 001400800 2542	6937 2492	7078 2502	7120 2710	7152 12470 · 8390 14522	•	0 23
36027095 STANFORD TON 3330		3443	3649	3840	7461 12067	3	0 00
36027100 UNION VALE T 3330		2704	2835	2920	6952 11589	=	0 0
36027105 HAPPINGER TO 3330 36027110 HASHINGTON T 3330	001401900 26776 001402000 4382	26622 4335	27068 4481	2695 0 464 0	8336 13477 9008 15030	•	0 23 0 23
360271102275 HILLBROOK 3320	001400300 1343	1341	1376	1350	8360 14036	-	0 0 0
	001501400 1015472 091500600 19819	997691 19361	986013 19530	964700 19340	7094 10543 6790 9934	2 3	
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36029015 AURORA TOWN 3330	001500300 13872	13695	13593	13540	6076 12413		Ď 2 3
	001500700 6803 001500400 7687	6743 7681	6664 7866	6500 7960	7680 12206 7926 11271	•	0 0 0
	001500500 2437	2353	2334	2240	5933 8462	·	0 23
	001500800 404	363	368	370	5537 8113		0 0 0
	001500500 357870 001500600 109442	348035 106982	338982 106038	324820 103350	5929 8840 7090 10271		D 00 D 43
360290353405 SLOAN 3320	001501500 4529	4342	4589	4640	6633 9978	<u>.</u>	0 0
	001500700 18146 001500800 3128	18335 3124	18397 3150	18780 3140	8632 13255 6902 10169	<u> </u>	D 00
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36029060 EDEN TOHN 3330	001501100 7327	7293	7302	7290	7138 10234		ŏŏŏ
	001501200 10574 001501300 17961	10345 18220	10251 18292	10210 16230	, 8486 12657 6444 9268	= -	D 0 0 D 2 3
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360290801470 HANBURG 3320	001500900 10582	10401	10588	10580	8230 12256	4	00
36029085 HOLLAND TONN 3330 → 360290901830 LACKANANNA 3320	001501600 3446 001501100 22701	3458 22019	3499 21743	3480 21380	5948 8873 6723 9328	Ξ.	00
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360291050025 AKRON 3320	001500100 2971	2902	2901	2920	6422 9331	4	0 0
36029110 NORTH COLLIN 3330 360291102540 NORTH COLLIN 3320	001502000 3791 001501300 1496	3748 1489	3745 1503	3750 1530	5792 8289 5547 8146	3 (7 7
36029115 ORCHARD PARK 3330	001502100 24359	24016	23789	23350	8922 13401	3 (23
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	001501000 18474 001502400 2844	17962 2886	17789 2956	17290 2930	7461 11071 7264 10550	9 (00
36029140 NEST SENECA 3330	001502500 51210	49966	49589	49160	7159 10463	3 6	
36031 ESSEX COUNTY 3310 36031 3240 SARANAC LAKE 3320		36357 1475	36654 1435	36300 1430	5798 9055 4749 10495	2 16	
36031005 CHESTERFIELD 3330		2323	2380	2500	6769 10485 5728 9615	8 0	0 2
						- '	



RECRA ENVIRONMENTAL, INC.

Chemical Waste Analysis, Prevention and Control

A2200



July 28, 1989

Mr. Raymond Rozansky Niagara Cold Drawn Steel 110 Hopkins Buffalo, New York 14220

Dear Mr. Rozansky:

As I mentioned during our telephone conversations on October 31, 1988, November 22, 1988 and July 28, 1989, Recra Environmental, Inc., is currently conducting a Phase I investigation of the Ramco Steel Site located at 110 Hopkins, Buffalo, New York.

We are performing this investigation for the New York State Department of Environmental Conservation pursuant to the requirements of the New York State Superfund Law (Chapter 857 of the Laws of 1982).

This is to confirm our telephone conversations wherein you provided the following information:

- o Hopkins-Tift Realty owns the property in which the settling pond is located. Niagara Cold Drawn Steel just owns the building (purchased in June, 1986 at 110 Hopkins.) LAND ASSOCIATED WITH THE BUILDING.
- o Prior to Niagara Cold Drawn Steel, the entire site was owned and operated by Ramco steel who purchased the site around 1972.
- o Niagara Cold Drawn Steel is involved in the finishing of hot rolled steel but has not pickled steel since 1986. To replace the pickling acid, they have been using a lime solution which is disposed of through BFI. + SHOT BLASTING.
- o Additionally, waste oil is sent off-site for reclamation and there are industrial wastewaters discharged through the sewer system.
- o Approximately 90 people are employed by Niagara Cold Drawn Steel.

A2200 Mr. Raymond Rozansky Niagara Cold Drawn Steel July 28, 1989 Page 2 of 2

We would appreciate if you would review this information, note any necessary corrections and return a signed and dated copy to indicate your concurrence. Your prompt attention to this would be appreciated, as the information is necessary to complete our evaluation of the site.

Thank you for your assistance.

Sincerely yours,

RECRA ENVIRONMENTAL, INC.

Linda Michalczak Project Manager

I agree with the information as it is presented.

Raymond Rozansky

Date

- In 1979 the discharge from the pickling operation to the pond was closed under the supervision of the DEC. During the period 1979 to 1986 all spent pickle acid was hauled off site by approved haulers.

RAMCO STEEL INCORPORATED - # 915046

in the pond's shape over the years.

Ramco Steel began its operations at the Hopkins Street facility in 1972. Prior to that time, a similar steel bar forming process was operated in the building by Bliss and Laughlin Steel. Records for the waste handling practices of Bliss and Laughlin are not available and the Interagency Task Force assumed that the practices employed by Ramco Steel were used by the former plant operators. Waste pickle liquors and lime effluents were discharged to settling ponds at the rear of

)ニーFILG

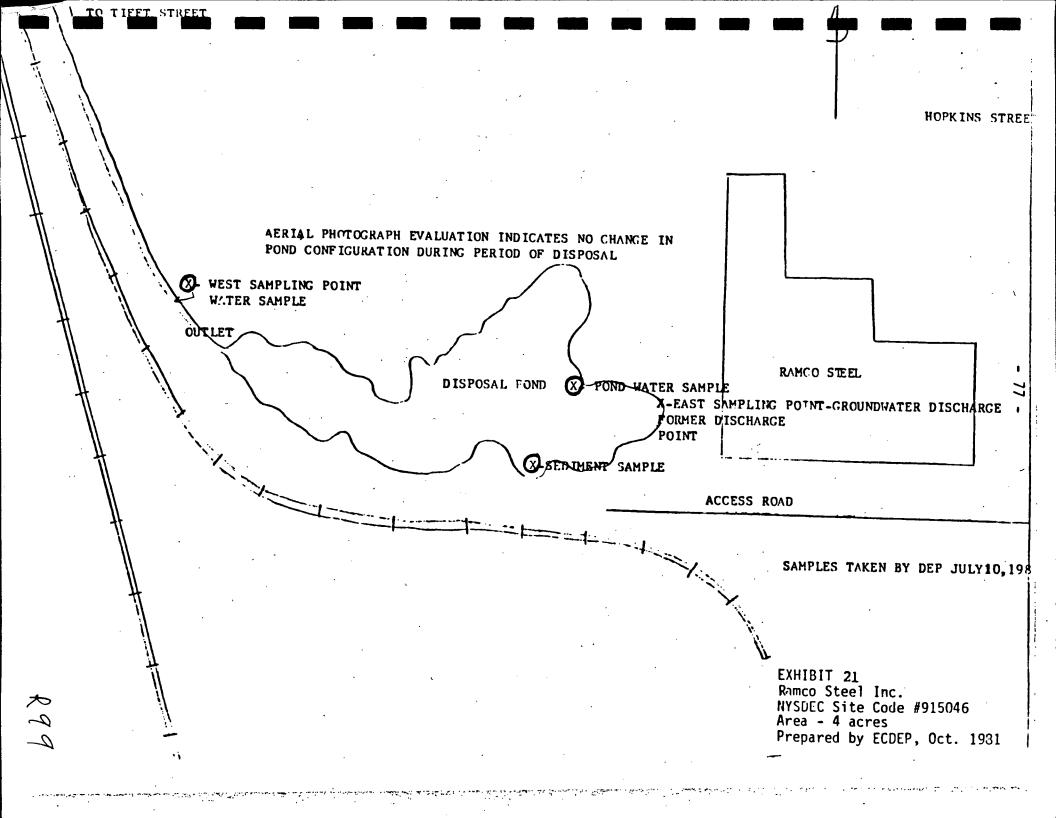
A major concern, in addition to metal and lime deposits in the pond, is the present Altifft Landfill adjacent to the site. Over the years this landfill, operated by a number of owners, steadily moved south from Tifft Street towards the Ramco ponds. The landfill is known to contain industrial wastes, some of which are hazardous. Leachates from this landfill into the Ramco pond and surrounding drainage pose a hazard potentially more dangerous than that of Ramco. Ramco Steel discontinued use of the settling ponds in favor of a connection to the municipal sewer system approximately two (2) years ago.

the production buildings. Our aerial photo evaluation found no change

DEP samples taken from the ponds on July 10, 1981 found low pH and high iron and zinc concentrations. The high iron content was expected but the low pH came as a surprise due to abandonment of the pond for wastes disposal. Based on the laboratory results we would recommend that the DEC - Industrial Wastewater Section investigate Ramco Steel for the possibility of a continued discharge to the ponds. We would also recommend sampling and analyses of sediment and drainage

RAMCO STEEL INCORPORATED - #915046 (Cont)

in the ditches heading from and affected by both the Ramco ponds and the Altifft Landfill. Suggested parameters for analysis would include amines, benzenes, and chlorinated organics.



HAZARD ANALYSIS

Site: #915046

Owner:

Ramco Steel Incorporated

110 Hopkins Street Buffalo, New York

Surrounding Land Use:

Industrial to the North, South and

West; Residential to the East.

Anticipated Effect of Disposal Site on Groundwater Drinking Supplies:

<u>Surrounding Area</u>:

None - area served by surface source.

Public Water Supply

Disposal activity ceased approximately

two (2) years ago - site unchanged.

Airborne Transport of Pollutants:

None

Need For Immediate Action:

None

Need For Future Action:

Sampling of drainage flow near the

site investigation of firm for continued

discharge of low pH wastewater.

Responsible Agency:

New York State DEC

Ramco Steel Inc., - #915011

Samples taken by DEP 7/10/81

(a) Sample taken from the south side of the pond.

	Parameter		<u>Value</u>	Unit of Measure
·	Cadmium		0.004	mg/l
	Chromium		0.01	mg/l
	Copper		0.03	mg/1
	Iron		85.12	mg/l
•	Nickel	•	0.07	mg/l
	Lead .	•	0.13	mg/l
	Zinc		0.56	mg/l
	pH		2.6	Standard Units
(b)	Sample taken from the	east side o	of the pond	
	Cadmi um	L.T.	0.001	mg/l
	Chromium	L.T.	0.01	mg/l
	Copper		0.02	mg/l
	Iron		1.92	mg/l
	Nickel	L.T.	0.02	mg/l
	Lead		0.02	mg/l
,	Zinc		0.05	mg/1
	рН	· .	6.4	Standard Units
(c	Sample taken from the	western dis	charge poin	t to area drainage
	Cadmium	•	0.004	mg/l
	Chromium	L.T.	0.01	mg/l
	Copper		0.03	mg/l
	Iron	,	80.07	mg/l
	Nickel	,	0.05	mg/l
•	Lead		0.18	mg/l
	Zinc		0.48	mg/l
	рН		2.7	Standard Units
	•			

(d) Ramco Steel - Sediment samples from south side of the pond

Parameter	<u>Value</u>	Unit of Measure
Cadmium	.001	ppm
Chromium	6.13	bbw
Copper	1.90	ppm
Iron	3100.0	ppm
Lead	5.84	ppm
Nickel	0.51	ppm
Zinc	92.50	ppm

HHI: COUNTY LABORATORY PUBLIC HEALTH DIVISION

RESULTS OF EXAMINATION OF SENAGE AND FOLLUTED WATER

Lib Mos.	81-359		_Collected	by Can	meron O'Conn	or	
InterCollected_	7/10/81	Rece	ived 7/	10/81	beninsd	8/18/81	
Place	Buffalo				County_	Erie	
Source	Ramco Ste	el, Hopk	ins St	pond behir	nd - south s	ide	· ·
	•		•	÷			
BACTERIAL EXALT							
Tests for colif	orm. (group)	H.F. 1	or 100 ml.			4.5	
CHEN I CAL EXAMIN	ATION	< '		٠.			: ·
		·. :	•	:			
Color	· · · · · · · · · · · · · · · · · · ·	`	•	Hardness			
Timbidity	-	·	•				
Odor# Suspended matte			•	Total 3o			
pli value	·, ~	2.6	-	Volat			-
Temperature C		~~~		Fixed			- ',
-			- .	۰٫۵۰۰۰			<u> </u>
B.O.D., 5 day			•	Sugnende	d Solids	•	;···,
Dinsolved oxyge	wi .		-	Total			
y satisfied			-	Volat	II.		· ·
: I (W) I I (/O				Fixed	1		_
Prosphates		-	-			•	• • • • • • • • • • • • • • • • • • • •
OUTT B COS					d Solids		÷. ,
Anionic detarge	ant			Total			
Thenol Cyanldo			_	Volat			-
CARITUR				Fixed	1		_
Hitrogen Cycle				C.O.D.			
Free Armonia	1	•	: •	Chloride			
Organic	· · · · · · · · · · · · · · · · · · ·		-	All:alini			
Mitrites	•		- .	Grease		·	
Nitrateo ina	H OH OH	/1	-				0.004
	3 - 2 -			METALS:			0.004
RHIMAKS:		:	•		Chromium_		0.01
					Copper Iron		85.12 V
Specific Condu	ctivity	3387	umhos/cm	•	Nickel	·	0.07
-			٠.	.•	Load		0.13
	·:			with the	Zinc		0.56

All results in mg/l.

* 1-very slight, 2-slight, 3-distinct, belocked, 5-extrama

Gerhard Paluca
Sr. Sanitary Chemist

JOSEPH PULLO, DVN, NPH Director

HHIL COUNTY LABORATORY PUBLIC HEALTH DIVISION

RESULTS OF EXAMINATION OF SEMACE AND POLLUTED MATER

Lib Mos.	81-359	Colle	cted by	ameron O'Conr	or ·	
InterCollected_	7/10/81		7/10/81		8/18/81	
Place	Buffalo			County		
Source	Ramco Stee	1, Hopkins St	• - pond beh	ind - south s	ide	_
NACTURIAL EXALT	HATTON		* * .			
Tests for colif		M.F. per 100	ml.	*		
CHENT CAL EXAMIN	ATION					
Color		:	Hardne			
Timbidity			1844 (U104	70		
Odor*			Total S	Golids ·		
Suspended matte	r*		Total			
pli value		2.6	Vola	tilo		
Tomperature C_			Pix	od		
B.O.D., 5 day			guenes.	ied Solids		
Masolvod oxvre	27)	****	Tota			
y contractal		 ,		tille		
			Fix			
Prosphates_			720	74		
Sulfatos			Magoly	red Solids		
Anionic deterge	nt		Total			
Phenol		-		tile	· · · · · · · · · · · · · · · · · · ·	
Cyanide			Fix			
Hitrogen Cycle						
Free Armonia		•	C.O.D.			
Organic			Chloric			
Mitriteo	·		Alltalir			
	10 10 114		GLETRE	and UII		
Nitrates inc.	1111 - 1117 - 1117		METALS:	Cadmium	0.00)4
RITARKS:				Chromium	0.01	
CANIK III	عمارة المسائر الما	•		Copper	0.03	
Specific Conduc	s e dard esc	207 .mb/		Iron	85,12	
sheerite cougue	rratra 7			Nickel	0.07	
	• •		inter∰ortunia,	Lead	0.13	
•	•			Zinc	0,56	,

All results in mg/l.

* 1-vory slight, 2-slight, 3-distinct, helevided, 5-extreme

Cerhard Paluca
Sr. Sanitary Chemist

R104

TRIE COUNTY LABORATORY PUBLIC HEALTH DIVISION

RESULTS OF EXAMPLATION OF SENACE AND POLLUTED WATER

Lith Ros	81-361	Colle	eted by c	ameron O'Conn	or	
Inte:Collected_	7/10/81	Received_		Examined		
Place	Buffalo			County	Erie	·
Source	Ramco Stee	1, Hopkins St.	- pond beh			 -
,				1.0	-	
BACTERIAL EXALT	TIATTON .					
Tents for colif	Orm money	M 12 now 100	-1			
14. 700 10, 0,411	COM IN COURT	un ber 100	AL .			
CENTENT EXAMIN	ATTION	•	•			
OWN TOWN FROUNT	ATTON:	•				•
Color		•		tyre types		
Timbidity			Hordne	18		
Odor*			Total 3	lol tite		
Suspended matte	g*		Total		*	
pli value	***************************************	6.4		illo		
Comperature C			Fixe			•
-			•	-		•
B.O.D., 5 day_			Suspend	led Solids	m .	
Masolved oxyge	n		Tota	ป		
% Saturation			Vola	tile	+ 	٠
1.1 (101.7 (10)			Fix	xd	·	
Mosphates Sulfates						
Anionic deterge				red Solids		
Thenol			Total			
Cyanide	··			tlle		
OJ/MITCO			Fix	xd	·	
Hitrogon Cycle			0.0.0	٠,		
Free Aumonia		•	C.O.D. Chlorid		·	
Organic			Allalir		- 	
Nitrited				and Oll		
Mitrateo inc	30 200 -2/1		01.0000	mid 011		
	3 2 11/		METALS:	Cadmium	L.T. 0.0	001
Rilarrs:		•		Chromium	L.T. 0.0	
· CONTRUCTO		•		Copper	0.0	02
Specific Conduc	rtivitu	605 umhos/e	·m	Iron	1.9	
Special Condu		WILLOW	P-1-1-0	Nickel	L.T. 0.0	
•	•			Lead	0.0	
		•	1	Zine	0.0	05
		•	: . •		•	

All results in my/l.

* 1-very slight, 2-slight, 3-distinct, helection, 5-extreme

Cerhard Paluca
Sr. Sanitary Chemist

R105

HHIL COUNTY LABORATORY PUBLIC HEALTH DIVISION

RESULTS OF EXAMPLATION OF SENAGE AND POLLUTED WATER

Lab Hos.	81-361		_Collected	by Ca	meron O'Conn	or	
InterCollected_	7/10/81	Rece	ived 7/	10/81	Examined_	8/18/81	
Place	Buffalo				County	Erie	
Source	Ramco Ste	el, Hopk	ins St	pond behi	nd - east si	de	
				3			
BACTERIAL EXAL						•	
Tents for colif	orm throught	M.F. p	or, 100 ml	-	•		
CUENT CAL EXAMIN	A TT 1 11 1					•	
Count our mount	ATTON:	•					
Color			•	Hardness	· · · · · · · · · · · · · · · · · · ·	· · · ·	
Timbidity			•				
Odor#				Total 30	olids		
Suspended matte	r. +		,	Total			
pli value		6.4	•	Volat			
Tomperature C				LTXC	1		•
B.O.D., 5 day				Sugnende	ed Solids		
Planolvod oxyge	וגע		•	Total		•	•
% Saturation			•	Volat			١.
TONE TOO				Fixe			
Prosphates			-				1
1)(TT) U CGA			-	Manolve	ed Solids		
Anionic determe	ent		•	Total			
Phenol			•		tile		•
Cyanldo	· · · · · · · · · · · · · · · · · · ·		•	FLoo	d		•
Hitrogon Cycle		•		C.O.D.			
Preo Armonia	1	•		Chloride	88		
Organic			•	Allalin			
Nitrites			_	Grease			•
Nitrateo ing	110 4110 -11/	1		MEMAT C.	0.1-1	· ·	0.001
	, , ,			METALS:	Cadmium_ Chromium		0.001
RHIMIGES:		•			Copper	LO LO	0.02
					Iron		1.92
Specific Condu	ctivity	605	umhos/cm		Nickel	L.T.	0.02
			J. Company		Lead		0.02
			···	31911 0 1			0.05

All results in mg/l.

* 1-very slight, 2-slight, 3-distinct, helpotided, 5-extrain

Gerhard Faluca

Gerhard Feluca

Sr. Sanitary Chemist

LITTL COUNTY LABORATORY PUBLIC HEALTH DIVISION

RESULTS OF EXAMINATION OF SEMAGE AND POLLUTED WATER

510 1.03		COTTE		Cameron O'Cont		
InterCollected_	7/10/81	Received_	7/10/81	Examined	8/18/81	
Place	Buffalo			County		
Cource	Ramco Stee	l, Hopkins St	- pond be	hind - western	discharge	pt.
BACTERIAL EXALT			**.			
Tests for colif	orm group:	H.F. por 100	ml.			
CIFILICAL EXAMINA	ATLOIT					
Color		:	Hardne	NG B	•	
Turbidity						
Odor*			Total	3olids		•
Suspended matter pH value				al		·
Temperature C		2.7		atilo		_
resulver a corre	· · · · · · · · · · · · · · · · · · ·		FY	red		_
B.O.D., 5 day			G.,			
Dissolved orver	<u>n</u>		Juapen Tot	ded Solids	*. *	
% Saturation Fluoride		*************		atile		-
Fluoride	·			weile		
inosphates		·	7.2.	160		.
OULLI BECS			Diago1	ved Solids	, .	
Anionic deterge	nt			al	· .	
JueuoT				atile		
Cyanide			Fix	æd		-
Hitrogen Cycle			C.O.D.		· ·	-
Free Armonia		•	Chlori			
Organic			Alkali			
Nitriteo				and Oil		
Nitrateo jag	110 +110 -N/1					
. 1	3 2	· .	METALS			0.004
RIZMRKS:				Chromium	L.T.	0.01
		•		Copper		0.03
Specific Conduc	tivity 3	106 umhos/	cm .	Iron		80,07
	* *************************************			Nickel		0.05
,				Lead		0.18
		•		Zinc		0.48
		4				•

All results in mg/l.

* 1-very alight, 2-alight, 3-distinct, helected, 5-extreme

Gerhard Paluca Sr. Sanitary Chemist

HRIE COUNTY LABORATORY PUBLIC HEALTH DIVISION

RESULTS OF EXAMINATION OF SENAGE AND FOLLUTED WATER

Lab Hos.	81-362		Collecte	ed ph_	Came	eron O'Conn	or	
Inte:Collected	7/10/81	Recei	ved7	/10/81	L E	benimax	8/18/81	
Place	Buffalo			-	وحرابيوسا	County_	Erie	-
Source	Ramco Stee	1, Hopki	ns St	pond	behin	- western	discharge	pt.
						$H_{\frac{1}{2}}$		
HACTERIAL EXALI	HATION	•		•				
Tents for colif	orm groups	M.F. De	100 m	1.				
		•						
CHELLICAL EXALITY	ATION -			٠.	<i>:</i>	•		
	- 	:			-			
Color				Hor	dness_			
Timbidly								
Odor#!			•		al 301	.ids		
Suspended matte	ar *				Total			
pli value	·····	2.7			Volati			
Temperature C					Pexti			·
B.O.D., 5 day	•			Q.,,a	nandar	Solids	ton after	v-a
Dissolved exyge	971			Jub	Total	OULLUS	•	
% Saturation	~ · · · · · · · · · · · · · · · · · · ·				Volat]	Ia		·
Fluoride					Fixed			
Phosphates					_			
Sulfates				Dis	solve	l Solids		
Anionic deterge	ent			. •	Total			_
Thenol					Volat:	le		_
CyanIdo	····				Fixed			
Hitrogon Cycle		_).D			
Free Armoni	0			-	loride			
Organic_	· · · · · · · · · · · · · · · · · · ·				alini			
Nitrites			•	Ure	1720 F	nd Oil		
Nitrates inc	*110 *110 *N\	1		MET	ALS:	Cadmium		0.004
,	-					Chromium	L.	r. 0.01
RIZUARKS:		•				Copper		0.03
		2206	v 1	_		Iron		80,07
Specific Condu	ctivity	3100 1	muros/cu	1		Nickel		0.05
	•			- (حسيا ۽ ۾ ز			0.18
				•		Zinc		0.48
	and the second s							

All results in mg/l.

* 1-very slight, 2-slight, 3-distinct, h-decided, 5-extreme

Gerhard Paluca
Sr. Sanitary Chemist

LISTE COUNTY LABORATORY PUBLIC HEALTH DIVISION

RESULTS OF EXAMINATION OF SHIAGE AND POLLUTED WATER

Lab Nos.	81-36	50	Coll	ected by	Cameron O'Con	nor
Date:Collec	ted	7/10/81	Received	7/10/81	benined	9/3/81
Place Buffe	alo				County	Erie
Source Rame	co Stee	el - Hopki	ins St. Pond	- Sediment	from southsid	e of Pond.
DACTERIAL E						
Tests for c	olifor	m group:	M.F. per 10	0 ml		
CHELLICAL EX	MITIMT	101				
Color			•	Hardi	1085	•
Turbidity_						
Udors				Total	l Solids	
Suspended n	utter*				otal	Andreas and the second
pli value				Ve	olatilo	
Temperature	· C	~ ~~	·	F:	Lxed	
B.O.D., 5 d	lav			Susp	ended Solids	
Dissolved o	xyren				ota1	
% Saturation	on _		· · · · · · · · · · · · · · · · · · ·	V	olatile	
Fluoride				F:	ixed	
Phosphates						
Sulfates					olved Solids	
Anionic det	tergent	,			otal	
Phenol		A		V	olatile	·
Cyanide			·	F	ixed	
Hitrogen Cy	rcle			C.O.	D.	
Free Am	nonia			Chlo	rides	
Organic					linity	
Nitribe				Grea	se and Oil	
Nitrade	me NC) + NO - N/1				
·		<i>J</i> -		•		
RHIANKS:					•	
METALS						
Cadmium	L.T. 0	<u>.0</u> 01	Nickel	0.51		
Chromium _	6.13		Zink	92.50		
Copper	1.90		-		•	
	3100.0					
				•		
Lead	J•04	1. (1.)			Ver	hard Polyce
		4				d Paluca
All result	s in m	3/1.			Senior	Sanitary Chemist
* 1-very s	light,	2-slight,	, 3-distinct,			

4-decided, 5-extreme

R109

JOSEPH PULEO, DVN, MPH Director

LIRIE COUNTY LABORATORY PUBLIC HEALTH DIVISION

RESULTS OF EXAMINATION OF SHIAGE AND POLLUTED WATER

Lab Nos.	81-360	Colle	ected by	Cameron O'Con	nnor
Date:Collect	ted 7/10/81			Examined	
Place Buffa					Erie
Source Ramce	o Steel - Hopkins	s St. Pond	- Sedimont		
			- bed Interic	Tron souther	ie of rond.
BACTERIAL EX	(ALTHATTON			i.	
	oliform group: M	Jia per 100) m1		
		v pa 200			•
CHELLICAL EXA	MILIATION				
~ 7					
Color Turbidity			Hordi	1058	~ ~~~
Odor*	· · · · · · · · · · · · · · · · · · ·		Total	l Solids	
Suspended ma	tter*			otal	
pli value				latilo	
Temperature	C			xed	
B.O.D., 5 da	**		a	1 1 5 1 4 1	
Dissolved ox	vr.en			ended Solids otal	
% Saturation				latile	
Fluoride				xed	
Phosphates			F-3	- And	
Sulfates			Dt sac	lved Solids	
Anionic dete	rgent			tal	•
Phenol				latile	
Cyanide	· 			xœd	
			-		
Hitrogen Cyc			C.O.I),	
Free Ammo	nia			ides	
Organic_				inity	
Nitrites			Greas	e and Oil	
Nitrates_	mg NO +NO -N/1				
212424					•
RHWRKS:					
METALS	,			•	
Cadmium L.	T. 0.001	Nickel	0.51		
Chromium	6.13	Zink	92.50		
Copper	1.90	-			
	100.0				
					
Lead5	.84				0 100
		•		Yest	and Talua
All results	in ma/1				Paluca
TITE TOUTING	मा ।।((\ T •			Senior S	Sanitary Chemist

* 1-very slight, 2-slight, 3-distinct, 4-decided, 5-extreme

RMO

JOSEPH PULEO, DVN, NPH

Director

	PO1	ENTIAL HAZAI					TIFICATION	
SEPA	0.074 617	SITE INSPEC E LOCATION AN		OI STATE NY	NY D059961003			
		ELOCATION AN	J INSPE	- ION INPONE	ATION			
II. SITE NAME AND LOCA		rmerly	02 STRE	ET. ROUTE NO , OR SI	PECIFIC LOCATION	IDENTIFIER		
· · · · · · · · · · · · · · · · · · ·	rawn Steel (Ram		i	Hopkins St		, ocivirien		
03 CITY		00 000017		10 PK 1115 3	OS COUNTY		07COUNTY	OB CON
Buffalo	,		NY	14220	Erie		029	33
9 COORDINATES 42° 50" 26" N	28°50 WGITUDE !! W	10 TYPE OF OWNERS	HP-Check o	DERAL	C STATE	D. COUNT	Y I E. MUNICIP	AL
III. INSPECTION INFORM	OZ SITE STATUS	03 YEARS OF OPERA	TiON	Ponc	1929	to 197	•	
11:03:88	R ACTIVE	Facility:	-	<u> Present</u>		UNKNOW		
MONTH DAY YEAR 04 AGENCY PERFORMING INSP	I INACTIVE	BEG	HNNING YE	AR ENDING YEAR	9			
	ONTRACTOR		C. M	UNICIPAL 3 0. N	IUNICIPAL CONT	RACTOR		
□ E. STATE ØF STATE	CONTRACTOR Recra E	nv1ronmenta	1= 0.0	THER			Name of him)	
05 CHIEF INSPECTOR		OB TITLE	<u></u> :		O7 ORGANIZ	ATION	08 TELEPHON	E NO
Ken Shisler	•	Staff Ge	eolog	ist	Recr	1	716 69	12600
9 OTHER INSPECTORS		10 1111			11 ORGANIZ		12 TELEPHON	
	 						()	
·				·			()	
							. ()	
							()	
						_	()	
13 SITE REPRESENTATIVES INT	ERVIEWED	14 TITLE		15ADORESS	<u> </u>		16 TELEPHONE	E NO
Dick Watkin	S	Plant Mair	nten.	110 Hopkin	s, Buffa	lo, NY	716 8277	7010
-	-						, ,	
····								
			İ			•	()	
							()	
•					`			
							()	
							()	
		- 						
17 ACCESS GAINED BY	18 TIME OF INSPECTION	19 WEATHER COM	DITTIONS					
© PERMISSION WARRANT	10:00 am	Clear, 4	10-45°	F, slight	wind.			
IV. INFORMATION AVAIL	ABLE FROM						TOJ TELEPHONE	
OI CONTACT Marsden	Chen	OZ OF (Agency Organ		. Ale. V. I				
. nar suem	onen	INYSUEC. A	\ ban\	. New York	'		518 4570	7039

07 TELEPHONE NO.

716-691-2600

11 21 88 MONTH DAY *EAR

06 OFGANIZATION

Recra

Ken Shisler

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM

\$EPA

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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY D059961003

					`		
II. WASTE S	TATES, QUANTITIES, AN	D CHARACTER	ISTICS				
01 PHYSICAL S	TATES (Check of that apply)	02 WASTE QUANT	TY AT SITE	03 WASTE CHARACT	TERISTICS (Check at that ac	- ••	
A SOUD	J.E SLURRY		independent)	X A TOXIC X B CORRC	_ E SOLUE	BLE I HIGHLY	
I 8 POWDE		TONS -		I I C RADIO	ACTIVE _ G FLAMI	1700S _ J EXPLOS	
	_Sediment		<u>1344(pond</u> s		TENT X H IGNITA	ABLE I LINCOMP	ATIBLE
X D OTHER	Soeche	NO OF DRUMS	<u>unknown (</u> w	aste oil)			PUCABLE
III. WASTE T	YPE						
CATEGORY	SUBSTANCE NA	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE				a) Spent lu	bricating oi	1 temp-
OLW	OILY WASTE		unknowna			tored in dru	
SOL	SOLVENTS					sported to o	
PSO	PESTICIDES	·	<u> </u>		reclamati		11 3100
occ	OTHER ORGANIC CH	EMCAL C	 			ution pumped	out of
ioc	INORGANIC CHEMIC					spent. (See	
	ACIDS						
ACD		·=				1334 cu.yds.	
BAS	BASES		213	cu/yds ^b		<u>sludge in se</u>	ttling
MES	HEAVY METALS		unknown ^C	<u> </u>	pond.		
IV. HAZARD	OUS SUBSTANCES (See AG		y cred CAS Munderal				
DI CATEGORY	02 SUBSTANCE NA	WE	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	OB MEASURE OF CONCENTRATION
OLW	Spent lubricat	ing oil	<u> </u>	Drum storage/off-site		<u>unknown</u>	
				reclamation			
MES	Chromium hydroxide 13		1308-14-1	Settling la	lgoon	unknown	
MES	Iron hydroxide			Settling 1		unknown	
ACD	Spent pickling			Settling la			
BAS	Lime (calcium		}	Pumped into		unknown	
<u> </u>	Eline (carelan	OXIGE)	<u> </u>	<u> </u>	om tank for	unknown	-
				off-site di			
	· · · · · · · · · · · · · · · · · · ·			DIT-SILE GI	spusa i		
				ļ			
				<u> </u>		3	
				,			
		- ····					
i							
V. FEEDSTO	CKS (See Appendix for CAS Number	YN .		I			L
CATEGORY	01 FEEDSTOC	C NAME	02 GAS NUMBER	CATEGORY	01 FEEDSTO	OCK NAME	02 CAS NUMBER
FDS	Lime (calciu	m oxide)	1305-78-8	FOS			
FDS	21 (34.13.13	JA CATEGY	1.000 .0 0	FOS			
FDS		 	 	FDS	-		
FDS			 	FDS			
	3 OF INFORMATION (Cre)		eres des seres sesses				
NYSDEC USEPA NUS Si	Region IX file Region II Files te Inspections Site Inspection	es 5/11/83 a	· · · · ·		,,, - 1		•

€EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

O1 STATE O2 SITE NUMBER

NY D059961003

D059961003 PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS II. HAZARDOUS CONDITIONS AND INCIDENTS 01 X A. GROUNDWATER CONTAMINATION 02 G OBSERVED (DATE: A POTENTIAL I ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION The settling pond is unlined. 01 YB. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 02 C OBSERVED (DATE: X ALLEGED 04 NARRATIVE DESCRIPTION Previous analysis of settling pond indicates levels of metals which exceed those acceptable to EPA for surface waters. The lagoon drains through a series of ponds to the adjacent wetlands which drain to Lake Erie. Drinking water intake for part (see back) 01 X C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: 02 - OBSERVEDIDATE: I POTENTIAL - ALLEGED 04 NARRATIVE DESCRIPTION No potential exists. 01 & D. FIRE/EXPLOSIVE CONDITIONS 02 C OBSERVED (DATE: POTENTIAL 90 _ ALLEGED 03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION Waste oil is stored on-site. Improper storage could present a fire hazard. 01 & E. DIRECT CONTACT 02 - OBSERVED (DATE: TO POTENTIAL ALLEGED unknown 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION The pond is accessible from other than the plant entrance. 01 X F. CONTAMINATION OF SOIL 02 X OBSERVED (DATE: 11/3/88 @ POTENTIAL ☐ ALLEGED 03 AREA POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION Reddish stained soil was Tound north of the settling pond. The contaminated area could have resulted from overflow conditions of the pond during periods of high rainfall. Previously, inorganic elements were detected in amounts greater than (see back) 01 CKG. DRINKING WATER CONTAMINATION 02 C OBSERVED (DATE: X POTENTIAL 360,000 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: Drinking water intake for city of Buffalo water supply is 5 miles downstream in Lake Erie 01 X H. WORKER EXPOSURE/INJURY 02 COSSERVED (DATE: POTENTIAL ALLEGED 90 03 WORKERS POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION Worker injury is possible through careless handling of spent lime solution and sludges. 01 34. POPULATION EXPOSURE/INJURY 02 OSSERVED (DATE: ☐ POTENTIAL C ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION No potential exists.

&EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION 01 STATE 02 SITE NAMES NY 0059961003

PART 3 - DESCRIPTION OF H	AZARDOUS CONDITIONS AND INCIDENTS
II. HAZARDOUS CONDITIONS AND INCIDENTS -Continued!	
01 XJ. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE) & POTENTIAL C ALLEGED
Flora around pond appears to be na may be affected.	tive and unaffected. However, micro flora
01 Å K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include nameral of species)	02 TOBSERVED (DATE) X POTENTIAL TALLEGED
Wetlands are inhabited by both res	ident and migratory water fowl.
01 \$\frac{1}{2} L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE) E POTENTIAL C ALLEGED
The potential exists due to contam the site.	inated surface water, soil, and sediments at
01 X M. UNSTABLE CONTAINMENT OF WASTES (Some Autor Standing square, Learning drums) 03 POPULATION POTENTIALLY AFFECTED:	02 \$ OBSERVED (DATE: 11/3/88) C POTENTIAL C ALLEGED 04 NARRATIVE DESCRIPTION
No dikes present around lagoon. T	he lagoon is unlined.
01 ÅN. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:) & POTENTIAL C ALLEGED
The potential downgradient movemen affect property to the north and	t of contaminated surface and groundwater may l west.
01 X O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTP 04 NARRATIVE DESCRIPTION	9 02 C OBSERVED (DATE:) C POTENTIAL C ALLEGED
No process wastewater is discharge	ed through sewer system.
01 X P ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 % OBSERVED (DATE: 11/3/88) = POTENTIAL = ALLEGED
Drums and debris were observed on Ramco site appears to be an extens of in lagoon. Disposal of other m	filled area north of lagoon. This area on the sion of the Alltift Landfill. Tires were disposed punicipal waste also noted.
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALL	
	360,090
IV. COMMENTS	
Steel discharged 6.000 gals/wk of	ial, Ramco Steel and apparently Bliss & McLaughlin wastewater H ₂ SO ₄ , 7% iron and other trace metals is process initiated in 1929 was discontinued in
V. SOURCES OF INFORMATION (Cre specific references, e.g., stare re-	
U.S. EPA Region II Federal File NYSDEC Region IX State File NUS Site Inspection 5/11/83, 7/11/	Recra Site Inspection 11/3/88 /84

£	FPΔ	
V		

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION BY A DEPOSIT AND DESCRIPTIVE INCOMATI

		IFICATION
	01 STATE	02 SITE NUMBER
:		PD059961003

WEFA		AND DESCR	IPTIVE INFORMAT	ION L	<u>NY D0599</u> 61003
II. PERMIT INFORMATION					
01 TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS	
TA. NPOES				<u></u>	
二 B. UIC		<u> </u>			
X.C. AIR		T		Several p	permits exist.
I D. RCRA					
芝 E. RCRA INTERIM STATUS	NYD059961003			Applicati	on submitted.
TF. SPCC PLAN					
X G. STATE Southy	0074977			SPDES per	mit for discharge
☐ H. LOCAL, Specify				to pond.	No longer valid.
II. OTHER Society					
J. NONE					
III. SITE DESCRIPTION					
01 STORAGE/DISPOSAL, (Check all met apply)	O TINU EO TRUOMA SO	FMEASURE 04	TREATMENT CHOCK MITHER A	DO(Y)	05 OTHER
Z A. SURFACE IMPOUNDMENT	5acre	es _ /	A. INCENERATION		
C B. PILES		_ 1	B. UNDERGROUND INJE	ECTION	A. BUILDINGS ON SITE
XI C. DRUMS, ABOVE GROUND	est. 50 drur	ms g	C. CHEMICAL/PHYSICA		1
X: D. TANK, ABOVE GROUND			D. BIOLOGICAL		
Ø E. TANK, BELOW GROUND	unknown old	z judge 🗴 i	E. WASTE OIL PROCESS	SING	06 AREA OF SITE
C F. LANOFILL			F SOLVENT RECOVERY	•	17
G G. LANDFARM			3. OTHER RECYCLING	RECOVERY	(AC(08)
C H. OPEN DUMP		— = '	T H. OTHER		
Soechy)					
Spent lubricating oi	1 is temporarily	stored i	n drums and	then pumpe	ed out and hauled
away by reclamation	dealer. In 1980	, the use	of pickling	liquor wa	is discontinued.
A lime solution is no	ow used. Spent	lime solu	tion and side	dge is tra	insterred trom
the dip tank to a ta	nker for transpo	rtation o	ff-site and (disposai d	by BFI.
IV. CONTAINMENT					
01 CONTAINMENT OF WASTES (Check one)					-
A. ADEQUATE, SECURE	☐ B. MODERATE	Ø C. INADE	QUATE, POOR	I D. INSECUR	IE. UNSOUND. DANGEROUS
oz description of drums, dikind, uners Drums of oil are not Settling lagoon is n	stored in a con-		ea. Oil spi	llage note	ed on soil.
V. ACCESSIBILITY					
01 WASTE EASILY ACCESSIBLE: E Y 02 COMMENTS DON'D	plant			- 	
The eastern portion	of the site is s	urrounded	by a chain	link fence	e. The settling

lagoon is not secured.

VI. SOURCES OF INFORMATION (Cre specific references, e.g. state rees, seriore energia, recorrs)

NYSDEC Region IX State File U.S. EPA Region II Federal File NUS Site Inspection 5/11/83, 7/11/84 Recra Site Inspection 11/3/88

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION
O1 STATE O2 SITE NUMBER
NY D059961003

	• • •	PART 5 - WATER	I, DEMOGRAPHIC	S, AND EN	VIRONN	ENTAL DATA		
II. DRINKI	NG WATER SUPPLY							
01 TYPE OF	ORINKING SUPPLY		02 STATUS				0:	DISTANCE TO SITE
	SURFACI	E WELL	ENDANGERES) AFFEC	TED	MONITORED		
COMMUNIT	TY A. Z	8. ⊊	A. 🗆	. 8.5	:	C. 🕱	A	
NON-COM	MUNITY C. X	o. =	0. ⊈	E. 3	:	F 🕽	8	<u>~5</u> (mi)
III. GROUN	DWATER		<u> </u>					
	01 GROUNDWATER USE IN VICINITY (Check one)							
I A ON	A ONLY SOURCE FOR ORINKING 3. 8. DRINKING COMMERCIAL, IRRIGATION 5.0 NOT USED, UNUSEABLE COMMERCIAL, INDUSTRIAL, IRRIGATION 5.0 NOT USED, UNUSEABLE COMMERCIAL, INDUSTRIAL, IRRIGATION NO other water sources everables							
02 POPULAT	(Within 3 mile of population served by ground water 0 radius) of distance to nearest drinking water well 5.0 (mi)							
04 DEPTH TO	GROUNDWATER	05 DIRECTION OF GRO	DUNGWATER FLOW	06 DEPTH TO OF CONCE		07 POTENTIAL YIE	۵	08 SOLE SOURCE AQUIFER
-	0-7	north-ne	orthwest	0-7	(ft)	10,000	(004)	C YES X NO
	NON OF WELLS (Including week				(11)		_ (gpd)	<u> </u>
	Wells in the area (>3 miles) are used for industrial purposes only. The water is not potable.							
10 RECHARG	E AMEA			11 DISCHARG	E AREA			
T YES	COMMENTS			¥ YES E NO	charo	ms Surfici les to Lake		quifer dis-
2 NO					Cital	- CO CURC		
IV. SURFA	CE WATER					<u> </u>		
O1 SURFACE WATER USE (CHOCK ONC) ZI A. RESERVOIR, RECREATION DRINKING WATER SOURCE IMPORTANT RESOURCES DOING WATER SOURCE								
02 AFFECTE	DIPOTENTIALLY AFFECTED	BODIES OF WATER						
NAME:						AFFECTED)	DISTANCE TO SITE
Damas		aa Daad				14		on-site (m)
	<u>Steel Settli</u>	ng rona				<u>\$</u>	-	1 (mi)
Lake Erie (m)								
	RAPHIC AND PROPER	TY INFORMATION			Т.	0.007111077701170	<u> </u>	All ATION
OI TOTAL PO	OPULATION WITHEN				- 1	2 DISTANCE TO NEAR	ESI PUP	ULANON
A 5.	MILE OF SITE 000 or Persons	WO (2) MILES OF SITE 8. 20.000 NO OF PERSONS	c 5) MILES OF S O OF PERSONS	-		0.1	(mi)
D3 NUMBER	OF BUILDINGS WITHIN TWO	(2) MILES OF SITE		04 DISTANCE	TO NEARE	IST OFF-SITE BUILDIN	g	
	3,	500				0.	1	(mi)
The a Inter the s	non within vicinity of site a surround in spersed commensite. To the of the site e	ng the site rcial develo north and so	can be desc pment and re uth are ind	esident ustrial	s a m ial a faci	reas are in lities and	ity ι nters	urban area. spersed east of ifills. To the

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

⇔EPA		CTION REPORT HIC, AND ENVIRONMENTAL DATA	01 STATE 02 SITE NUMBER NY 10059961003
VI. ENVIRONMENTAL INFORMA		MIO, AND ENVINORMENTAL DATA	100033030
01 PERMEABILITY OF UNSATURATED Z			
⊒ A. 10-6 - 10-		☐ C. 10 ⁻⁴ - 10 ⁻³ cm/sec ☐ D. GREATER	THAN 10 ⁻³ cm/sec
02 PERMEABILITY OF BEDROCK (Check of			
		BLE C. RELATIVELY PERMEABLE C. D.	VERY PERMEABLE
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
<u>10-15</u> (ft)		5-6	
	07 ONE YEAR 24 HOUR RAINFALL	OB SLOPE SITE SLOPE DIRECTION OF SITE S	
8(in)	(in)	SITE SLOPE DIRECTION OF SITE S 1-2 West	LOPE TERRAIN AVERAGE SLOPE
09 FLOOD POTENTIAL	10		
SITE IS IN >500 YEAR FLOO	50, 544 ·	IER ISLAND, COASTAL HIGH HAZARD AREA.	RIVERINE FLOODWAY
11 DISTANCE TO WETLANDS (5 acre minimu	m)	12 DISTANCE TO CRITICAL HABITAT (of endangere	
ESTUARINE	OTHER	Mor <u>e than</u>	<u>1 1 (mi)</u>
. A(mi)	_{e · Adjacent (mi)}	ENDANGERED SPECIES:	
3 LANG USE IN VICINITY			
DISTANCE TO:	DECIDENTIAL AGEAS, MATIO	NA - 67477 BARNS	•
COMMERCIAL/INDUSTRIA	RESIDENTIAL AREAS; NATIO NL FORESTS, OR WILDLIF	NAL/STATE PARKS, AGRIC TE RESERVES PRIME AG LAN	CULTURAL LANDS D AG LAND
on-cito	0.1	None	exist in area.
A. <u>on-site</u> (mi)	e. <u>0.1</u>	(mi) C	(mi) D(mi)
4 DESCRIPTION OF SITE IN RELATION TO	SURROUNDING TOPOGRAPHY		
predominate, separa areas. Surface dra	ated by elevated berms w	ively flat terrain. Mar where railroads cross, a ows northwest and then w ·	nd landfilled
•	÷		e
·		-	
		· .	
•	•		
	•		
	•	•	
II. SOURCES OF INFORMATION	/Cre secure references. e.g., state fees, sample energies.	10007E)	
	G.S. 7.5 minute Topogra		
NUS Site Inspection Recra Site Inspecti	Report 7/11/84		

•	6	E	F	¥	١
1.	SAI	#PL	E \$	TAI	(
	• • •		_		

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION

01 STATE 02 SITE NAMED

NV | DO 50061003

VLIA	•	, P	ART 6 - SAMPLE AND FIELD INFORMATION	<u> </u>
II. SAMPLES TAKE	IN			
SAMPLE TYPE		01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DAT PESULTS AVAIL
GROUNOWATER				
SURFACE WATER	- <u>-</u>			
WASTE				
Aifi			<u> </u>	
RUNOFF				
SPILL				
SOIL				`
		<u> </u>	<u> </u>	
VEGETATION				
OTHER				
III. FIELD MEASUR	EMENTS TA			
Ambient Ai	ir	Oz comments Survey wit	h an HNU photoionization detector (using the 10.2
Survey	•	ev probe)	revealed readings of 2-4 ppm above	background along
		North and	revealed readings of 2-4 ppm above East side of lagoon. No other read	ings above
······	· · ·	background	were detected.	
IV. PHOTOGRAPHS	S AND MAPS	<u> </u>		
01 TYPE = GROUN	O C'AERIAL		02 IN CUSTODY OF	
3 MAPS X YES	04 LOCATION		mental, Inc.	
I NO				· · · · · · · · · · · · · · · · · · ·
v. Other field D	ATA COLLE	CTED (Provide reviews des	Ereteni .	:
Field note Invesigati			Recra Environmental field notebook	, Phase I
			•	
			·	
	•		•	
			·	
VI. SOURCES OF I	FORMATIO	N (Cità spacific raterances, a	g state Mes. sample analysis. (800/18)	
Recra Site	e Inspec	tion 11/3/8	8.	

4 -			ZARDOUS WASTE SITE		I. IDENTIFICATION	
⇔EPA		U	ECTION REPORT INER INFORMATION		2 SITE NUMBER D059961003	
II. CURRENT OWNER(S)			PARENT COMPANY III 2004C20141			
oiNAM€ Facility:		02 D+8 NUMBER	OB NAME		09 D+8 NUMBER	
Niagara Cold Drawn S	Steel	1- 2-2-2-2-				
		04 SIC CODE	10 STREET ADDRESS (P. O. Box. RFD # erc.)		11 SIC CODE	
100 Hopkins	DO STATE	107 ZIP CODE	12 CITY	113 STATE	14 ZIP CODE	
Buffalo	NY	14240		1.55.7.2	14 21F 305E	
O1 NAME	1 177	02 0+8 NUMBER	08 NAME		09 Q+8 NUMBER	
I			İ			
03 STREET ADDRESS (P. O. Box, RFO F. etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box. RFD #. MC.)		11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
*****		222.2			20.2.2.2.2.2.20	
01 NAME		02 D+8 NUMBER	08 NAME		09 0+8 NUMBER	
03 STREET ADDRESS (P. O. Box, RFD P. etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. BOX. RFD #. etc.)		11 SIC CODE	
			(3.5			
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
	'		1			
O1 NAME		02 0+8 NUMBER	OB NAME		09 0 + 8 NUMBER	
	<u> </u>	l				
03 STREET ADDRESS (P. O. Box. RFD #, etc.)		04 SIC COO€	10 STREET ADDRESS (P.O. Box. RFD #, etc.)		1 1 SIC CODE	
	TAA STATE			1		
05 CITY	06 SIA15	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
" SOSUICHE AWNERS!"			IV. REALTY OWNER(S) (If applicable: let			
III. PREVIOUS OWNER(S) (List most receil 01 NAME	ne first)	02 D+8 NUMBER	OT NAME		02 0+8 NUMBER	
Ramco/Fitzsimmons Ste	eel '	1			ļ	
03 STREET ADORESS (P 0 Box. RFD # etc.)		04 SIC CODE	03 STREET ADDRESS (P O. Box. RFD #, etc.)		04 SIC CODE	
110 Hopkins	;	3316				
05 CITY	1 1	07 ZIP CODE	OS CITY	06 STATE	07 ZIP CODE	
Buffalo	NY	14240			22.0.0000	
Ol NAME		02 D+8 NUMBER	OT NAME	,	02 D+8 NUMBER	
Bliss & Laughlin		04 SIC COD€	O3 STREET ADORESS (P.O. Box. RFD &. orc.)		04 SIC COD€	
281 E. 155th St.				~		
05 CITY	OG STATE	O7 ZIP CODE	05 CITY	08 STATE	07 ZIP CODE	
Harvey	IL	60426				
01 NAME		02 D+8 NUMBER .	O1 NAME		02 D+8 NUMBER	
		Va.: 0:20000			12:00.000	
O3 STREET ADDRESS (P. O. Box. RFD F. erc.)		04 SIC CODE	O3 STREET ADDRESS (P O Box. RFO P. erc.)		04 SIC CODE	
OSCITY	OBSTATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE	
· ·		0. 2 3333		•	· 	
V. SOURCES OF INFORMATION ICA	e specific references.	e.a. state fries, sample energy	es. recorts			
T. GOURGE OF HAT THE PROPERTY OF	7 WOORN 100 01000.	. g., sime res.	Toposition .			
NYSDEC Region 9 File	S					
Telephone Conversati	on with M	ICDS				
		, -				

0.550	PO		ARDOUS WASTE SITE	I. IDENTIF	
SEPA			CTION REPORT ATOR INFORMATION		059961003
II. CURRENT OPERATOR	America de Colonia de Constantino		OPERATOR'S PARENT COMPAN		
OI NAME Facility:		02 0+8 NUMBER	10 NAME		110+8 NUMBER
Niagara Cold Dr	awn Steel				TO TO NO MOREN
03 STREET ADDRESS IF O Box. RFG	of erc i	04 SIC CODE	12 STREET ADDRESS (P.O. Box. RFD F. arc.)		13 SIC CODE
110 Hopkins					
OS CITY		07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
Buffalo	NY	14240		ł	
1986-Present	AME OF OWNER				
IN. PREVIOUS OPERATOR	S) (List most recent first: provide only	d different from owner)	PREVIOUS OPERATORS' PARENT	COMPANIES (# (porcabie)
01 NAME		02 D+6 NUMBER	10 NAME		110+8 NUMBER
Ramco/Fitzsimme	1				
os street Aconess (P.O. aux. APD 110 Hopkins	Ø. etc.)	3316	12 STREET AOORESS (P.O. BOX, RFO P. etc.)		13 SIC CODE
oscarv Buffalo	OG STATE	07 22 COOE 14240	14 CITY	15 STATE	16 ZIP COOE
	AME OF OWNER DURING THIS				
1972-1986	·	PENOU .			
01 NAME	1	2 D+8 NUMBER	10 NAME		110+6 NUMBER
Bliss and Laugh					
03 STREET ADDRESS (P.O. Box. APD		04 SIC COOE	12 STREET ADDRESS (P.O. Bost. RFD F. etc.)		13 SIC CODE
281 E. 155th St			·		
Harvey	I L	60426	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 09 N	AME OF OWNER DURING THIS	PERIOD			
DI NAME		2 0+8 NUMBER	10 NAME		1 1 0+8 NUMBER
03 STREET ADDRESS (P.O. Box, AFO	P. etc./	04 SIC CODE	12 STREET ADDRESS (P.O. Box, AFD F. etc.)		13 SIC CODE
	Č	1			
OS CITY	OS STATE	7 ZP CO08	14 CITY	15 STATE	6 ZP CODE
20 VE 400 OF COPPA TOWN 100 W					
to YEARS OF OPERATION	AND OF CHARGE DURING THE	PERCO			
IV. SOURCES OF INFORMA	TION con mand more a				
			·	·	
NYSDEC Region 9) Files	• .			
Telephone conve	ersation with N	ICDS			
			•		
•					
	•		•		•
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II. ON-SITE GENERATOR OI NAME Niagara Cold Drawn Steel O3 STREET ADDRESS (P.O. Sou. PROP. OC.) O6 STATE O7 ZIP CODE NY 14240 III. OFF-SITE GENERATOR(S) OI NAME O2 D+8 HUMBER O3 STREET ADDRESS (P.O. Sou. PROP. OC.) O6 STATE O7 ZIP CODE O3 STREET ADDRESS (P.O. Sou. PROP. OC.) O6 STATE O7 ZIP CODE O3 STREET ADDRESS (P.O. Sou. PROP. OC.) O4 SIC CODE O3 STREET ADDRESS (P.O. Sou. PROP. OC.) O4 SIC CODE O3 STREET ADDRESS (P.O. Sou. PROP. OC.) O4 SIC CODE O3 STREET ADDRESS (P.O. Sou. PROP. OC.) O4 SIC CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O5 CITY O6 STATE O7 ZIP CODE O	⊕EPA		SITE INSP	ZARDOUS WASTE SITE ECTION REPORT TRANSPORTER INFORMATION	OI STATE	FICATION 22 SITE NUMBER 0059961003
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01 C A. WATER SUPPLY CLOSED 04 DESCRIPTION		02 DATE	03 AGENCY	
No past response				
01 G B. TEMPORARY WATER SUPPLY	PROVIDED	02 DATE	O3 AGENCY	
04 DESCRIPTION				
No past response	PROVIDED	02 DATE	03 AGENCY	
04 DESCRIPTION				
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04 DESCRIPTION		02 DATE	03 AGENCY	
No past response				
01 G E. CONTAMINATED SOIL REMOVE 04 DESCRIPTION	iD .	02 DATE	03 AGENCY	
No past response				
01 C F WASTE REPACKAGED		02 DATE	03 AGENCY	
No past response	•			
01 C G. WASTE DISPOSED ELSEWHERE		02 DATE	O3 AGENCY	
04 DESCRIPTION				
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No past response				
01 ST I IN SITU CHEMICAL TREATMENT 04 DESCRIPTION SOCIUM hyd	roxide used to	raise pH of	03 AGENCY	s precipitated
out as metallic hydroxic	des.			p. co.p. ca cca
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01 C K. IN SITU PHYSICAL TREATMENT		02 DATE	03 AGENCY	
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01 G M. EMERGENCY WANTE TREATME 04 DESCRIPTION	•••			
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01 T. N. CUTOFF WALLS 04 DESCRIPTION		02 DATE	03 AGENCY	
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01 C O EMERGENCY DIKING/SURFACE	WATER DIVERSION	OZ DATE	03 AGENCY	rie-Lackawanna RR
o4 DESCRIPTION Berm has bee area and away from rails	en constructed road tracks.	to channel	lagoon overflow	north to wetland
01 Z P. CUTOFF TRENCHES/SUMP		02 DATE	03 AGENCY	
No past response				
01 C Q. SUBSURFACE CUTOFF WALL.		02 DATE	03 AGENCY	
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No past response	•			

I. IDENTIFICATION POTENTIAL HAZARDOUS WASTE SITE & EPA O1 STATE O2 SITE NUMBER SITE INSPECTION REPORT D059961003 PART 10 - PAST RESPONSE ACTIVITIES II PAST RESPONSE ACTIVITIES 01 C R BARRIER WALLS CONSTRUCTED 04 DESCRIPTION 02 DATE 03 AGENCY No past response 01 ☐ S. CAPPING/COVERING 04 DESCRIPTION 02 DATE 03 AGENCY No past response 01 C T. BULK TANKAGE REPAIRED 04 DESCRIPTION 02 DATE 03 AGENCY No past response 01 3 U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION 02 DATE 03 AGENCY_ No past response 01 C V. BOTTOM SEALED 04 DESCRIPTION 02 DATE 03 AGENCY No past response 01 C W. GAS CONTROL 04 DESCRIPTION 02 DATE 03 AGENCY_ No past response 01 C X. FIRE CONTROL 04 DESCRIPTION 02 DATE 03 AGENCY No past response 01 T Y LEACHATE TREATMENT 04 DESCRIPTION 02 DATE 03 AGENCY No past response 01 Z Z. AREA EVACUATED 04 DESCRIPTION 02 DATE 03 AGENCY. No past response 01 ☐ 1 ACCESS TO SITE RESTRICTED 04 DESCRIPTION 02 DATE 03 AGENCY. No past response 01 = 2. POPULATION RELOCATED 04 DESCRIPTION 02 DATE_ 03 AGENCY No past response 01 \subset 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION OZ DATE . 03 AGENCY No past response

III. SOURCES OF INFORMATION (Cre assent references, e.g., auto-rise, sample analysis, reservo

NYSDEC Region IX State File U.S. EPA Region II Federal File NUS Site Inspection, 7/11/84 Recra Site Inspection, 11/3/88



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

L IDENTIFICATION

NY 10059961003

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION X YES IN NO

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

The NYS Department of Environmental Conservation, Division of Solid Waste, performed a facility inspection on the settling pond on 8/21/78 and 8/29/78. Inspection reports were filled out, but no enforcement action is known to have occurred as a result of the inspections.

III. SOURCES OF INFORMATION (Can appeals references, e.g., state from serving, reports)

NYSDEC Region IX State File

March 3, 1977 County of Erie, Dept. of Environmental Quality memorandum.

6.0 ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

. 6.1 Assessment of Data Adequacy

The data collected and evaluated during Phase I for the Ramco Steel site, which was subsequently used to complete the HRS scoring, is considered inadequate in the following areas:

- o Background Water and Soil Contamination Levels the site is located in an area saturated with recognized hazardous waste sites (re: 6 sites with 0.5 miles of site). The migration impact of these sites on regional surface water, groundwater and soils has not been totally examined and identified.
- o Route Characteristics Groundwater the existence of moderate permeability soils underlying the settling pond, along with the absence of an aquitard, has not been quantified.
- o Observed Releases no definable groundwater or surface water releases originating from the site have been identified.

6.2 Recommendations

Several data inadequacies exist, as delineated in Section 6.1, which prohibit the computation and support of a final, defensible HRS score. The following activities have been identified for the Phase II Investigation:

- o Regional Contamination Assessment
- o Air Monitoring
- o Geophysical Investigation
- o Subsurface Investigation

- o Monitoring Well Installation
- o Sampling and Analysis

6.2.1 Regional Contamination Assessment

Within a 0.5 mile radius of the Ramco site, six inactive hazardous waste sites have been identified in which various stages of investigations (i.e., Phase I and II, RI/FS, etc.) have been completed. An accurate assessment of environmental/health impacts of the Ramco site cannot be completed and a determination of significant impact cannot be made until the impacts of the surrounding sites is considered and factored into the site-specific assessment. Comparison of these sites, in particular regard to contaminant identification and migration, will allow an accurate assessment of hazards actually originating the Ramco site.

6.2.2 Air Monitoring

Air monitoring conducted during the Phase I site visit did not result in measureable (ie., OVA) air contaminants being identified. However, a further in-depth air monitoring program should be conducted to determine if contaminants are actually migrating from the site via the air route and to assist in the development of a future Health and Safety Plan for field activities.

An initial site perimeter screening should be conducted using an Organic Vapor Analyzer (OVA) and/or an HNu photoionizer.

6.2.3 Geophysical Investigation

After initial assessment of the ambient air quality at the site, a geophy-

sical terrain conductivity investigation should be performed to define the limits of the encroaching Alltift Landfill, to characterize the electrical conductivity of the site, and to determine the possible presence of conductive groundwater contaminant plumes. The geophysical information obtained should be used to minimize the number of drill sites, assist in determining the location of monitoring wells, and reduce the risk associated with drilling into unknown terrain and waste.

6.2.4 Subsurface Investigation

In order to obtain additional information concerning possible groundwater contamiantion originating from the Ramco site, a subsurface investigation consisting of drilling 5 test borings should be conducted (Figure 5). The borings should be terminated at the upper water bearing zone (approx. 5 feet). Drilling identification and decontamination operations should be conducted in accordance with NYSDEC protocol for Phase II investigations.

6.2.5 Monitoring Well Installation

It is proposed that 5 monitoring wells be installed within the original test boring holes. A field determination should be made as to the placement of the well screens. This determination will be based on the information obtained from soil samples and water level measurements. Well construction and development should be conducted according to NYSDEC protocol for Phase II Investigations.

6.2.6 <u>Sampling and Analysis</u>

As identified in Figure 5, it is proposed that several environmental samples be secured to determine the possible existance of contamination.

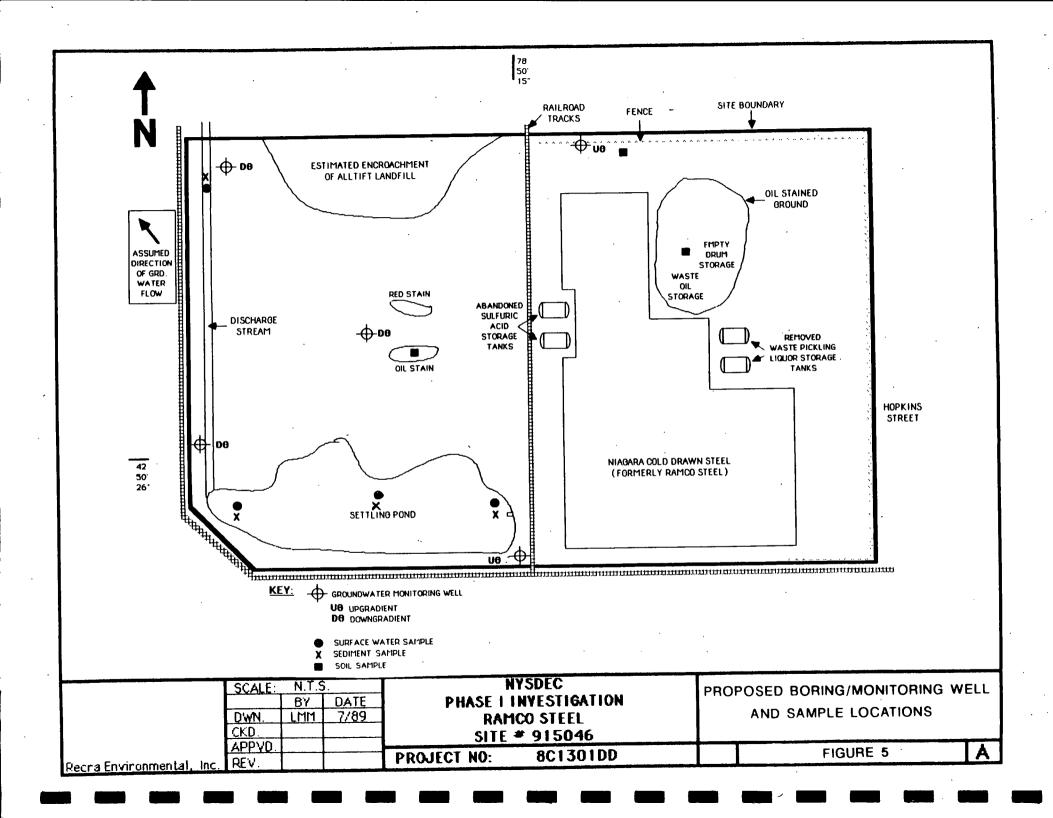
Sampling and analysis should be conducted according to NYSDEC protocol for Phase II investigations. Table 6-1 identifies the proposed analytical parameters for each sample type.

RECOMMENDED CHEMICAL ANALYSES

Site Name and I.D.: Ramco Steel Site

Class										
Type of Sample	1	2	3	4	5.	6	7	8	9	No. of Samples
Groundwater	X	X							X	5
Surface Water	X	X							X	4
Sediment	X	X			٠		X			4
Soil	X	X			· X		X			3

- 1) Hazardous Substance List organics, volatile and base/neutral/acid fractions, in accordance with Contract Laboratory Protocol
- 2) Hazardous Substance List metals in accordance with Contract Laboratory Protocol
- 3) Ammonia
- 4) Dioxin
- 5) PCB
- 6) Priority Pollutant Polynuclear Aromatic Hydrocarbons (PNAs, Method 8310)
- 7) E.P. Toxicity
- 8) Sulfate
- 9) Specific Conductance



APPENDIX A

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

CLASSIFICATION COD	E:	REGION: 9.	SITE CODE: 915046	
STREET ADDRESS: 11 TOWN/CITY: Buffalo		COUNTY: Erie		P: 14220
ESTIMATED SIZE:	م. Acres(۱	Pond); 17 acres (to	•	ment Pond-XX
SITE OWNER/OPERATO CURRENT OWNER NAME CURRENT OWNER ADDR OWNER(S) DURING US OPERATOR DURING US OPERATOR ADDRESS PERIOD ASSOCIATED	WITH HAZARDO	JUS WASTE: From	. 1949 To .1979(FUND	kins, Bflo, NY liss & Laughlin liss & Laughlin kins, Bflo, NY
connected to region a Artive steel procest and lubricating oil disposed of off-sit recycling/disposal, within 0.5 mile rad a Site is located in a Nearest water suppl	ial upper and ising facility is are utilize ie. Temporary has resulted lius of the si an industrial er is a wetlay, is located	lower aquifers and In the current In the current d The waste lime storage of spent in stained soils te 6 hazardous .was area bordered by and (BU-1) .located aappx 5. miles. away	previously utilized for disposatine pond's water resulted in genoond. It appears the pond is by adjacent wetlands rocessing of hot-rolled stell, a solution and resultant sludges a ubricating oils on-site, prior it is sites bave been identified. The sites bave been identified at the mouth of the Niagara River	a lime solution are currently so off-site.
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ANALYTI	CAL DATA AV	AILABLE:			SITE	CODE: 915	U46 • • • • •	
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TYPE: STATUS:	none In Progr	ess	Compl	State eted	•	Feder	al	
REMEDIA	L ACTION:							
Propose NATURE	d OF ACTION:	Under De	esign	In Pro	gress-	· • · · · • · • · · · · · · · · · · · ·	Completed	i
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APPENDIX B

DATA SOURCES AND REFERENCES

	•	<u>Page</u>
1.	Engineering-Science, Engineering Investigations at Hazardous Waste Sites in the State of New York: Phase II Investigations, Alltift Realty, Site #915054, Volume I and II, 1986.	R1-R15
2.	USEPA/USGS, Preliminary Evaluation of Chemical Migration to Groundwater and the Niagara River from Selected Waste-Disposal Sites, 1985.	R16-R25
3.	NUS Corporation, <u>Site Inspection</u> <u>Report and Hazardous Ranking</u> <u>System Model, Ramco Steel</u> , 1984.	R26-R71
4.	USEPA/Mitre Corp., <u>Uncontrolled Hazardous Waste Site Ranking</u> System: A Users Manual, 1984.	R72
5.	NYSDEC, "Inactive Hazardous Waste Disposal Report", 1985.	R73-R74
6.	Site Investigation by Recra Environmental, Inc., 1988.	R75-R82
7.	USGS 7.5 Minute Topographic Map, Buffalo SE Quadrangle, 1965.	R83
8.	NYS Department of Health, New York State Atlas of Communit Water System Sources, 1982.	R84-R86
9.	NYSDEC, "NYS Freshwater Wetlands Map", Map 12 of 31, 1975.	R87 - R88
10.	U.S. Dept. of Agriculture, "Rainfall Frequency Atlas of The U.S.", 1961.	R89-R90
11.	Telecon communications from John Curtis of NYSDEC Fish and Wildlife on 11/28/88.	R91
12.	Sax, N. Irving, <u>Dangerous Properties of Industrial Materials</u> , <u>Sixth Edition</u> , Van Nostrand Reinhold Company, New York, 1984.	R93-R94
13.	1986 Census.	R95
14.	Telecon communications with Raymond Rozansky of Niagara Cold Drawn Steel on 10/31/88 and 11/22/88.	R96
15.	Erie County Department of Environmental Protection, July 10, 1981 sampling analysis summary report of Ramco site.	R97-R110
16.	Erie County Department of Environmental Quaity Memorandum A. Voell to I. Hoekstra on March 3, 1977.	R111- R112
17.	FEMA, "Flood Insurance Rate Map - Community Panel "360230 0010B, 1981.	R113- R114
18.	USEPA, <u>Industrial Process Profiles for Environmental Use:</u> Chapter 24. The Iron and Steel Industry, 1977.	R115- R117

COUNTY OF ERIE

DEPARTMENT OF ENVIRONMENTAL QUALITY

MEMORANDUM

Formo Steel

Anthony T. Voell

DATE March 3, 1977

I. Arthur Hoekstra

JECT Ramco Steel - Wastewater Discharge Investigation

The response to Mr. Regan's request for a summary regarding the above company, the following chronological summary is presented:

- Ramco Steel purchased the present land from Bliss and Laughlin Steel Company. This purchase was financed by the issuance of 2 million dollars in bonds by the Erie County Industrial Development Agency. The company employs approximately 200 persons in the production of cold finished steel bars.
- 1973-74 Ramco Steel informed of the need for additional treatment to meet Water Quality standards and requirements of New York Discharge Permit Program.
- 1975 Ramco proposed a neutralization system for their discharge which was disapproved by New York State DEC because it did not address all the aspects of the wastewater discharges from the company.

New York State DEC proposed an Order on Consent in September, 1975 which was discussed at a series of meetings, however, the Order was never issued. Ramco however did agree to the timetable contained in the Consent Order. This timetable varied from the timetable contained in the SPDES permit issued March 7, 1975, and it allowed additional time for Ramco to evaluate alternate treatment methods for their discharge.

Ramco submitted an engineering report to DEC for an alternate treatment system in February. Ramco forwarded a letter to Commissioner Ogden Reid, New York State DEC in March of 1976 stating that they could not afford the expense of the proposed treatment system. The Engineering Report and Final Plans were approved in September for a system similar to that used at the New York Wire Mills Company in the Town of Tonawanda. This is a system sold by Wean United of Pittsburgh, Pennsylvania. This system incorporates recycling of pickling acids with the recovery of acids thereby reducing some of the operating costs at the plant.

REFERENCE 16

Memorandum ... I. Arthur Hoekstra Ramco Steel March 3, 1977 Page 2

> The writer has questioned the possibility of utilizing BSA sewers for the discharge of pre-treated industrial wastes from this company. A review of the file indicates that in 1974 the Buffalo Sewer Authority indicated that there was a possibility of accepting pre-treated effluent from this plant into their sewers.

1977 Regional Attorney Peter J. Burke forwarded correspondence to Mr. Langdon Marsh, General Counsel for New York State DEC requesting that the Ramco Steel case be referred to the Attorney General for immediate action or that advice be given on other alternative actions regarding this case.

> The current non-compliance by Ramco Steel deals primarily with their SPDES permit schedule of compliance and discharge limitations as well as possible water quality standards violation.

> We suggest the following action regarding this situation:

- Further investigate the possibility of discharging pre-treated effluent from this company to the BSA sewers to see if it is a cost effective solution to the problem. Factors to be considered in this evaluation would be the effect on solids disposal at the BSA plant as well as the probable industrial cost recovery charged back against Ramco Steel by the BSA.
- Mr. Ibrashi will visit the Ramco Steel Company to evaluate their treatment problem to see if there are any other alternatives which might prove to be more economical in terms of treatment.

It is obvious that the attempts to have Ramco Steel solve their wastewater treatment problems have extended over a period of at least four years, involved two engineering studies and have come to the point of lack of financing for the abatement program.

Should you have any questions or comments regarding this, please let me know. Moell

ATV:jk

REFERENCE 17

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

CITY OF BUFFALO, NEW YORK ERIE COUNTY

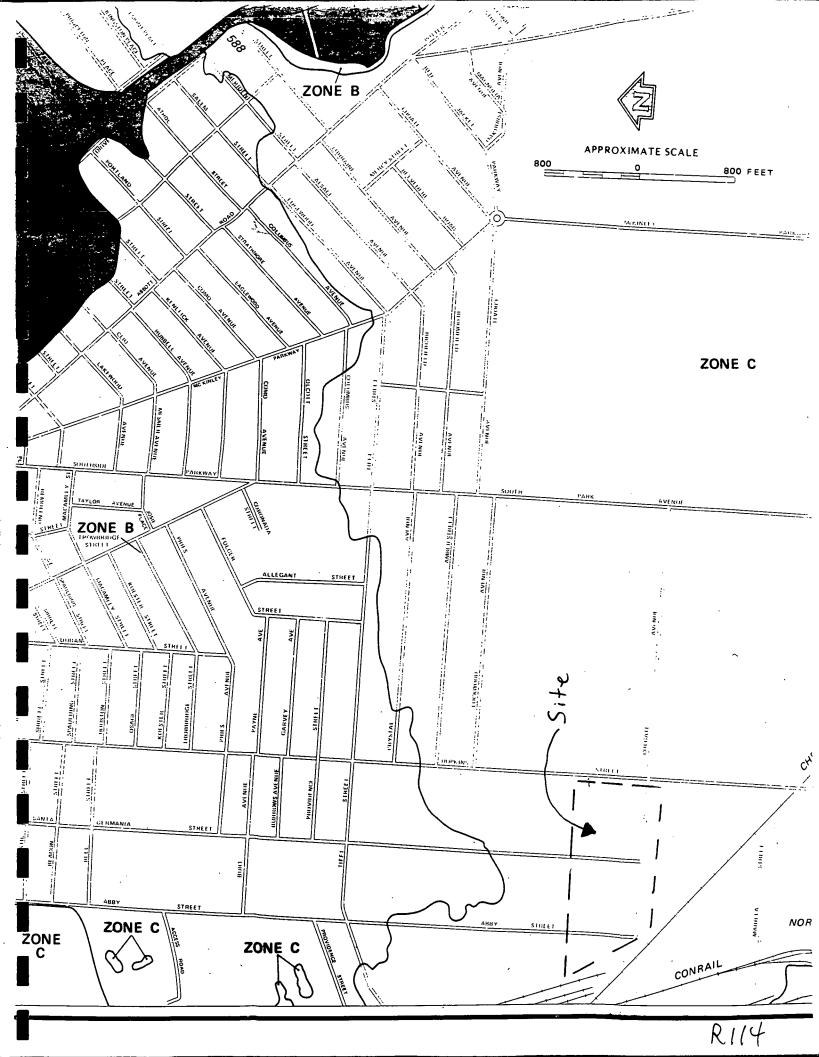
PANEL 10 OF 20 (SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER 360230 0010 B

EFFECTIVE DATE:

NOVEMBER 18, 1981

federal emergency management agency federal insurance administration



REFERENCE 18

INDUSTRIAL PROCESS PROFILES FOR ENVIRONMENTAL USE: Chapter 24. The Iron and Steel Industry



Industrial Environmental Research Laboratory
Office of Research and Development
ILS. Environmental Protection Agency
Research Triangle Park, North Carolina 27711

Acid Treatment (Pickling)

- 1. <u>Function</u> The oxidized surface of the hot-rolled steel is cleaned by acid treatment (pickling) in preparation for cold rolling. The metal is then rinsed with water to remove the bulk of the contaminants from the pickled product.
- 2. <u>Input Materials</u> Sulfuric acid or hydrochloric acid is used for pickling. Consumption of acid varies over a wide range from a low of about 0.5 kilogram per ton* to a high of about 25 kilograms per ton*. The volume of water used for rinsing is in the range of about 200 to 400 liters per ton* of steel pickled.²
- 3. Operating Parameters No data available.
- 4. <u>Utilities</u> No data available.
- 5. Waste Streams Acid fumes occur during pickling. Water discharge from the pickling operation generally includes spent strong pickle liquor and the acidic rinse water, which must be neutralized before it can be safely discharged. An estimated 150,000 tons of pollutants are expected from pickling processes in 1975. A typical pickling process produces waste water containing 2.25 kilograms of free acid and 8.4 kilograms of combined acid per ton* of ingot.

Iron concentration in waste pickle liquor is about 70,000 milligrams per liter. Spent pickling solutions and acid rinse waters differ widely in quantity, composition, and concentration. Acid rinse waters have the same relative proportions of iron salts and free acid pickling solution, but are much more diluted. 10 to 15 percent of acid used in pickling is discharged in rinse waters. Spent sulfuric acid pickling solutions contain free acid, ferrous sulfate, undissolved scale and dirt, and trace metals. Spent sulfate pickling solutions are discharged at 30 to 90°C. Pickling tanks emit pungent and corrosive mist and vapor.

Potential liquid waste streams, other than spent pickle liquor, are suspended particles of waterborne scale, lubricating oil, and pickling rinse water. 7

^{*} Metric tons (1000 kg)

Strong pickle liquors and rinse waters are often neutralized with lime. Sludge resulting from lime neutralization of spent pickle liquor is a principal solid waste problem. Lagoons filled with the material, which never dries, constitute a major problem at many mills.⁷

6. <u>EPA Source Classification Code</u> - Finishing/Pickling - 3-03-009-10

7. References -

- The Making, Shaping and Treating of Steel. Ninth Edition. McGannon, H.E. (ed.). Pittsburgh, Pennsylvania, U.S. Steel Company, 1971.
- 2. Kemmer, F.N. Pollution Control in the Steel Industry. In: Industrial Pollution Control Handbook, Lund, H.F. (ed.). New York, McGraw-Hill Book Company, 1971. p. 16.
- 3. Varga, L. Jr., and H.W. Lownie. Final Technological Report on a Systems Analysis Study of the Integrated Iron and Steel Industry, Furnham, C.F. (ed.). Battelle, Memorial Institute, Columbus, Ohio. May 1969.
- 4. Ralph Stone and Company, Inc. Forecasts of the Effects of Air and Water Pollution Controls on Solid Waste Generation.
 National Environmental Research Center. Publication Number PB-238-219. December 1974.
- 5. Sittig, M. Iron. In: Pollutant Removal Handbook. New Jersey, Noyes Data Corporation, 1973. p. 251-257.
- 6. Bramer, H.C. Iron and Steel. Chapter 14. In: Industrial Waste Water Control, Chemical Technology, A Series of Monographs Volume 2, New York, Academic Press, 1965.
- 7. Bramer, H.C. Pollution Control in the Steel Industry. Environmental Science and Technology. 1004-1008, October 1971.

RAMCO STEEL LMS

6.0 ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

6.1 Assessment of Data Adequacy

The data collected and evaluated during Phase I for the Ramco Steel site, which was subsequently used to complete the HRS scoring, is considered inadequate in the following areas:

- o Background Water and Soil Contamination Levels the site is located in an area saturated with recognized hazardous waste sites (re: 6 sites with 0.5 miles of site). The migration impact of these sites on regional surface water, groundwater and soils has not been totally examined and identified.
- o Route Characteristics Groundwater the existence of moderate permeability soils underlying the settling pond, along with the absence of an aquitard, has not been quantified.
- o Observed Releases no definable groundwater or surface water releases originating from the site have been identified.

6.2 Recommendations

Several data inadequacies exist, as delineated in Section 6.1, which prohibit the computation and support of a final, defensible HRS score. The following work plan does not necessarily represent a recommendation to proceed with a Phase II Investigation, but rather outlines the activities which should be performed in order to achieve a final HRS score. The final decision concerning the need for a Phase II study depends not only upon the availability and adequacy of hard data, but also upon the preliminary (Phase I) HRS score, as well as agency policy and public perception regarding the site.

post

The following activities have been identified for the Phase II Investigation:

- o Regional Contamination Assessment
- o Air Monitoring
- o Geophysical Investigation
- o Subsurface Investigation
- o Monitoring Well Installation
- o Sampling and Analysis

6.2.1 Regional Contamination Assessment

Within a 0.5 mile radius of the Ramco site, six inactive hazardous waste sites have been identified in which various stages of investigations (i.e., Phase I and II, RI/FS, etc.) have been completed. An accurate assessment of environmental/health impacts of the Ramco site cannot be completed and a determination of significant impact cannot be made until the impacts of the surrounding sites is considered and factored into the site-specific assessment. Comparison of these sites, in particular regard to contaminant identification and migration, will allow an accurate assessment of hazards actually originating the Ramco site.

6.2.2 Air Monitoring

Air monitoring conducted during the Phase I site visit did not result in measureable (ie., OVA) air contaminants being identified. However, a further in-depth air monitoring program should be conducted to determine if

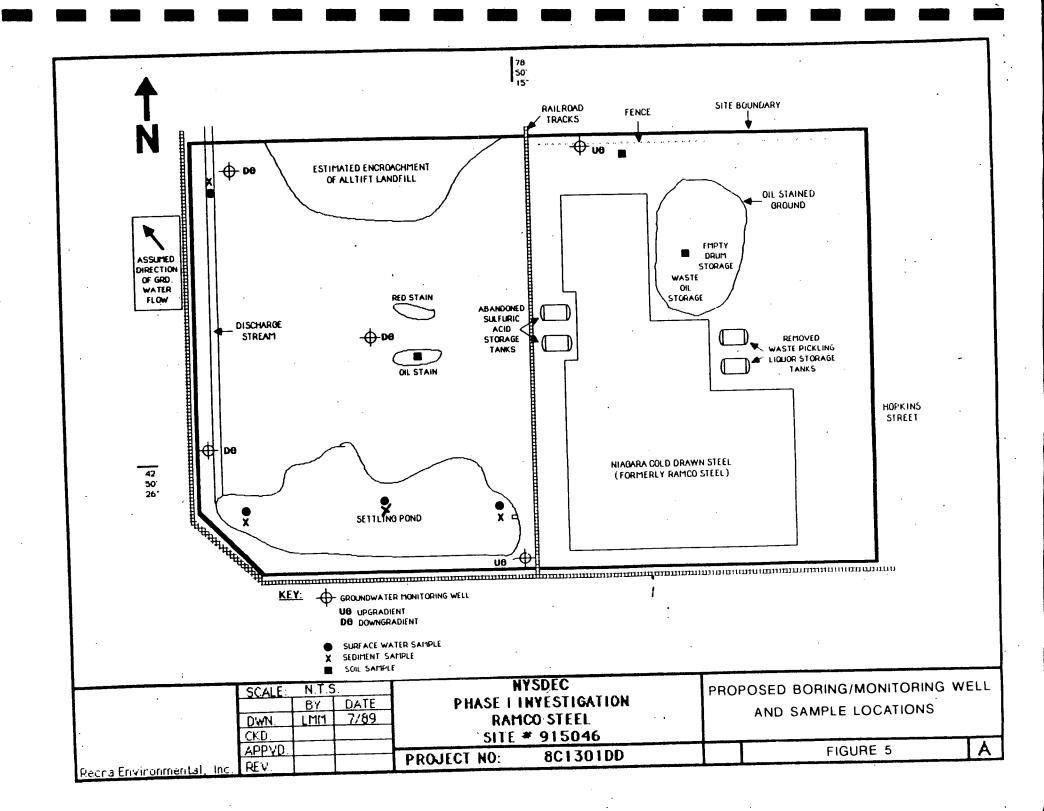


TABLE 6-1 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE II INVESTIGATIONS

RECOMMENDED CHEMICAL ANALYSES

Site Name and I.D.: Ramco Steel Site

•			*		Class					
Type of Sample	1	2	3	4	5	6	7	8 .	9	No. of Samples
Groundwater	X	X							X	5
Surface Water	X	X		+					χ.	3.4
Sediment	X.	×		,			X			24
Soil	. X	X			X		. X	•		3

- 1) Hazardous Substance List organics, volatile and base/neutral/acid fractions, in accordance with Contract Laboratory **Protocol**
- Hazardous Substance List metals in accordance with Contract Laboratory Protocol
- Ammonia
- Dioxin
- PCB
- 6) Priority Pollutant Polynuclear Aromatic Hydrocarbons (PNAs, Method 8310)
- 7) E.P. Toxicity8) Sulfate
- Specific Conductance

Phase I - Draft Reports Sleepy Hollow Campgrounds, ID #915136

- 1. The report fails to acknowledge direct contact with remaining drums and contaminated soil, as a significant potential human exposure concern.
- 2. No calculations are shown to verify the population within a particular radius, and it isn't clear what the referenced maps are supposed to depict.
- 3. Except for a photo log, there is no site visit report.

Ramco Steel, ID #916048

- 1. USGS Topographic Maps and site sketch are misplaced.
- Some of the sections are misnumbered and some are placed in the wrong part of the report.
 - 3. The Fire and Explosion route should not have been commpleted since there was no Fire Marshall's certification, nor direct evidence of an explosion or fire threat.
- 4. The three-mile radius should be drawn on the DOH Water Atlas.

Pawling Village Landfill, ID #314036

1. Thre is no site sketch map in Section 1.

iru, slezb

Schenck Bus Company, ID #130037

- 1. The figures for New York State drinking water standards used in the report, need to be updated.
- A page from the documentation records is missing.
- 3. Although the contaminated upper aquifer is not used for potable water, contact with this water may still be possible. The report suggests otherwise. Monitoring wells have not been extended to the underlaying aquifer, which is the primary drinking water source. Thus, it is not known whether contamination has migrated there. In addition, the upper aquifer may be used for industrial purposes. Exposure to contamination is possible through this use of the groundwater.

Joseph Menafra, ID #152087

- 1. More than one USGS Quandrangle was used, but this was not indicated.
- 2. Clarify why "N/A" is used so often in the surface water and air routes.
- 3. In the air route, calculate "Population within 4-mile raidus" using all the given radii, then use the radius which gives the highest score.

Smithtown Landfill Site, ID #152043

- 1. In part 3 of the EPA site inspection form, the statement "no potential exists," would seem to be an overstatement.
- 2. In part 5 of the EPA inspection form, the depth to aquifer of concern is stated as 10 ft, but the groundwater depth is 45 ft. How is this possible?

RECRA ENVIRONMENTAL, INC. RECORD OF TELEPHONE CONVERSATION

Date <u>10-31-88</u> Time <u>3:30</u> (am)	
Project Title Phase I Line No. By KAS Project No. 8C1301DD2 Alice COLO AL REVISED RESIDENCE STATE RESIDENCE	
Rameo Stal Project No. 8C1301DD2	· ·
Company Nagara Con Francisce! Location Justice 107	
Individual Maymond Bosonsky Title Vice President	· ·
Telephone No. () 827-70/0 Subject Site Recon of Settling Ponds	· ·
Items Discussed Mr. Rozansky called us, stated to	lat
Niegare Cold Drawn Steel did not own property that	
Lagoon is located on. Said we must contact Mr. Fra	
Archer of Hopkins-Tifft Realty Corp. Mr. Archer	
a former offices of Rango - current offices of Niagara	
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property luring bankrupter proceedings. State	
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quarter to NYS Dept. of Taxation & Finance TF5.	508/87.
Previous responsible party for dunging - Delavare No	th
Comments or Action Required	
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RECRA ENVIRONMENTAL, INC. RECORD OF TELEPHONE CONVERSATION

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Project No. 40	301
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Individual Raymond Rozansky Title Vice	p105.
Telephone No. (1827-7010
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RECRA ENVIRONMENTAL, INC.

Chemical Waste Analysis, Prevention and Control

A2209

July 31, 1989

Mr. John Ozard
Information Services
Wildlife Resources Center
Delmar, New York 12054-9767

Dear Mr. Ozard:

As I discussed with Mr. John Curtis of Region 9 NYSDEC on November 28, 1988 and July 31, 1989, Recra Environmental, Inc., is currently conducting a Phase I investigation of the Ramco Steel site located on 110 Hopkins Road, Buffalo, New York.

We are performing this investigation for the New York State Department of Environmental Conservation pursuant to the requirements of the New York State Superfund Law (Chapter 857 of the Laws of 1982).

This is to confirm our telephone conversations with Mr. Curtis on Noember 28, 1988 wherein he provided the following information:

 There are no critical habitants for endangered species near the Hopkins and Tift Street intersection.

In that Mr. Curtis has informed me of NYSDEC's new information request policy whereas all requests are directed to your office, we would appreciate if you would review this information, note any necessary corrections and return a signed and dated copy to indicate your concurrence. Your prompt attention to this matter would be appreciated, as the information is necessary to complete our evaluation of the site.

Thank you for your assistance.

Sincerely,

RECRA ENVIRONMENTAL, INC.

Linda Michalczak

Project Manager

I agree with the information as it is presented.

John Ozard Date

RECRA ENVIRONMENTAL, INC. RECORD OF TELEPHONE CONVERSATION

•	
	Date $\frac{11/28/86}{1}$ Time $\frac{11:00}{1}$ (p
A1 (2 0 5 / 0)	Line NoByAMA
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idividual John Cartis	Title Conselv Officier
	Telephone No. (-) <u>847 4550</u>
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RECRA ENVIRONMENTAL, INC.

Chemical Waste Analysis, Prevention and Control

A2200

July 28, 1989

Mr. Raymond Rozansky Niagara Cold Drawn Steel 110 Hopkins Buffalo, New York 14220

Dear Mr. Rozansky:

As I mentioned during our telephone conversations on October 31, 1988, November 22, 1988 and July 28, 1989, Recra Environmental, Inc., is currently conducting a Phase I investigation of the Ramco Steel Site located at 110 Hopkins, Buffalo, New York.

We are performing this investigation for the New York State Department of Environmental Conservation pursuant to the requirements of the New York State Superfund Law (Chapter 857 of the Laws of 1982).

This is to confirm our telephone conversations wherein you provided the following information:

- o Hopkins-Tift Realty owns the property in which the settling pond is located. Niagara Cold Drawn Steel just owns the building (purchased in June, 1986 at 110 Hopkins.)
- o Prior to Niagara Cold Drawn Steel, the entire site was owned and operated by Ramco steel who purchased the site around 1972.
- o Niagara Cold Drawn Steel is involved in the finishing of hot rolled steel but has not pickled steel since 1986. To replace the pickling acid, they have been using a lime solution which is disposed of through BFI.
- o Additionally, waste oil is sent off-site for reclamation and there are industrial wastewaters discharged through the sewer system.
- o Approximately 90 people are employed by Niagara Cold Drawn Steel.

A2200 Mr. Raymond Rozansky Niagara Cold Drawn Steel July 28, 1989 Page 2 of 2

We would appreciate if you would review this information, note any necessary corrections and return a signed and dated copy to indicate your concurrence. Your prompt attention to this would be appreciated, as the information is necessary to complete our evaluation of the site.

Thank you for your assistance.

Sincerely yours,

RECRA ENVIRONMENTAL, INC.

Linda Michalczak Project Manager

I agree with the information as it is presented.

•		
Raymond Rozansky	 Date	. ,



New York State Department of Environmental Conservation Regulatory Affairs Regional Offices (continued)

REGION	COUNTIES	NAME	LOCATION
Region 7	Broome Cayuga Chenango Cortland Madison Onondaga Oswego Tioga Tompkins	Allan Coburn	P.O. Box 1169 Fisher Avenue Cortland, NY 13045
Region 8	Chemung Genesee Livingston Monroe Ontario Orleans Schuyler Seneca Steuben Wayne Yates	Albert Butkas	6274 East Avon-Lima Road Avon, NY 14414
Region 9	Allegany Cattaraugus Chautauqua Erie Niagara Wyoming	Steven Boleski	600 Delaware Avenue Buffalo, NY 14202