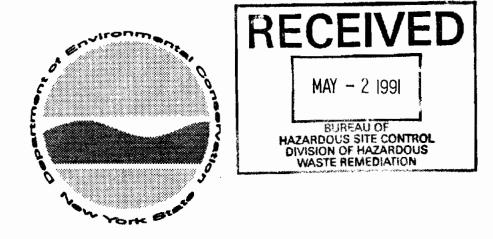
ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PRELIMINARY SITE ASSESSMENT

Witmer Road Site City of Niagara Falls

Site No. 932027 Niagara County



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., *Director*

By: E.C. JORDAN CO. Portland, Maine

March 1991

NYSDEC CONTRACT NO. D002472

NYSDEC WORK ASSIGNMENT NO. D002472-6

E.C. JORDAN CO.

FINAL DRAFT REPORT

TASK 1: DATA RECORDS SEARCH AND ASSESSMENT PRELIMINARY SITE ASSESSMENT

> WITMER ROAD SITE SITE NO. 932027 NIAGARA COUNTY

> > MARCH 1991

Submitted By:

Elizabeth A. Ryan Project Manager E.C. Jordan Co.

Approved By:

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Willingtiller

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1.0 EXECUTIVE SUMMARY

The Witmer Road Site, Site No. 932027, is a 1-acre area in the Town of Niagara, Niagara County, New York. The site is located off Witmer Road and is bordered to the south by James Avenue, a "paper road" -- proposed for development, but never constructed (Figure 1). From the early 1950s to late 1965, the Witmer Road disposal site reportedly was used to dump various types of waste including (1) lime clean-outs from the International Mineral and Chemical Company, (2) wastes from air pollution control equipment owned and operated by Airco Alloys, and (3) slag materials from the Vanadium Corporation (NCHD, 1982).

It has been reported that the City of Niagara Falls operated two refuse burning pits on the site. Paper, furniture, and wood debris reportedly were burned in these pits and the resulting ash was disposed of off-site. The old refuse burn pits operated by the City of Niagara have been backfilled and are now covered by junk automobiles in the Kachinoski junk yard. The Witmer Road Site is currently used as a scrap yard (Engineering-Science, 1986).

Potential property owners include Mr. Adolph Kachinoski of Kach's Scrap Company, Mr. Ryding of the Sartarian Company, Mr. Garlock, Mr. Bresko, Mr. Clark, and Mr. Burtwell. Some of these property owners either own or have parcels abutting portions of the Witmer Road Site. Previous ownership of the Witmer Road Site cannot be determined until current ownership of the site is better defined.

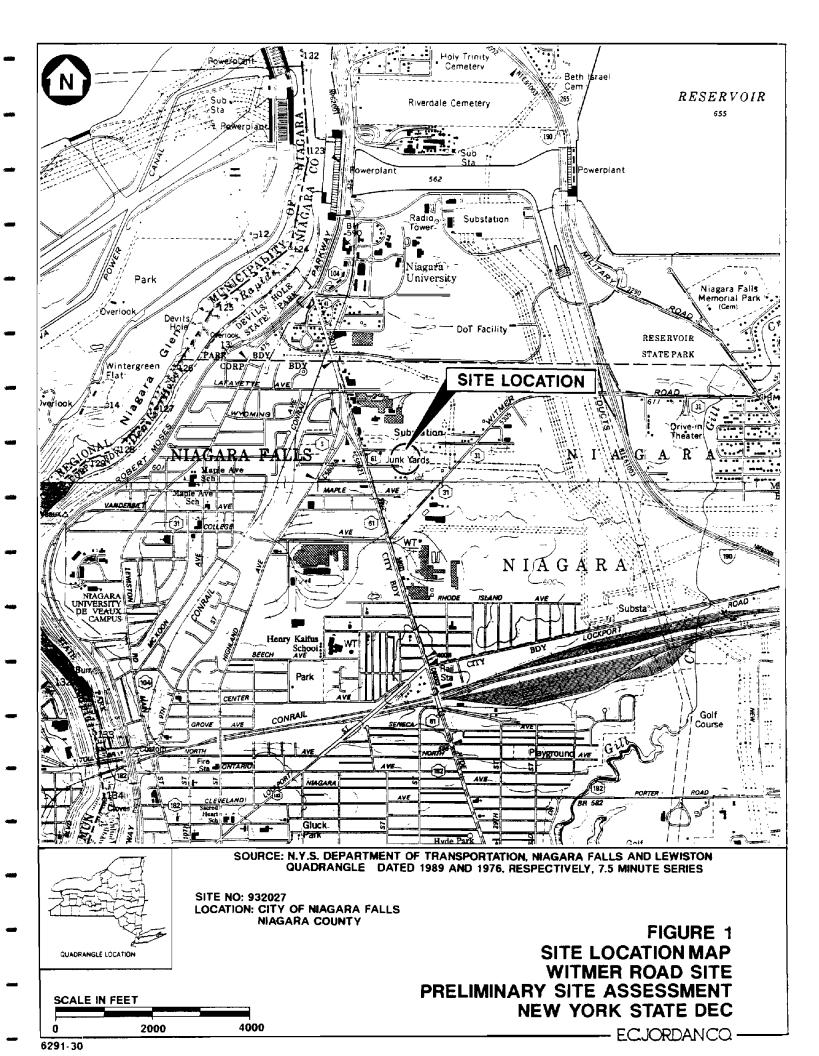
In 1982, the U.S. Geological Survey (USGS) collected two soil samples from the Witmer Road Site. Analysis of these samples revealed the presence of volatile organic compounds (SVOCs), organic compounds and unidentified semivolatile hydrocarbons (USGS, 1982). During 1984, the New York State Department of Health (NYSDOH) collected and analyzed groundwater samples from five private wells northeast of the site (NYSDOH, 1984). Data were available for three wells. These samples contained low concentrations (i.e., below 6 micrograms per liter These samples [µg/L]) of VOCs. It is not known whether these wells are located up- or downgradient of the site. In 1987, NUS Corporation (NUS), a U.S. Environmental Protection Agency (USEPA) contractor, VOCs, collected four soil samples from the site. pesticides, and polychlorinated biphenyls (PCBs) were detected in these samples. PCBs were detected at concentrations of 320 and 800 micrograms per kilogram ($\mu g/kg$) (Appendix D). In 1990, during a site walkover, Jordan personnel observed mounds of fill material and exposed piles of waste on the site. The waste appeared to be a combination of slag and ash. In addition, Jordan personnel observed approximately 12 to 14 unlabeled and open, and 10 to 15 partially buried 55-gallon waste containers. A tar-like substance and residual liquid were observed in these containers.

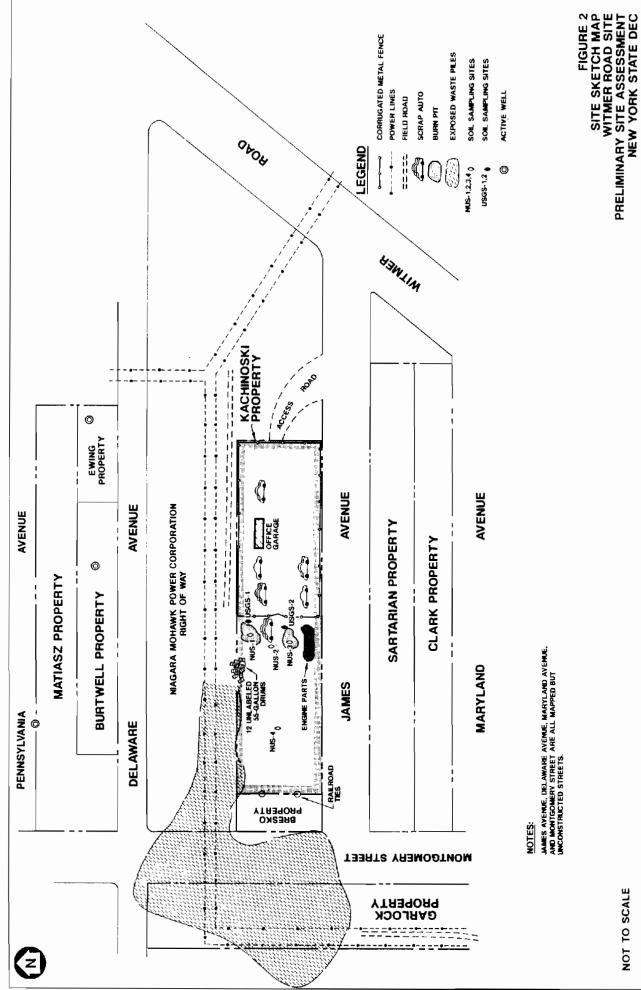
Information collected and reviewed by the E.C. Jordan Co. (Jordan) was insufficient to document the disposal of hazardous waste at this site or to determine whether the site poses a significant threat to public health and the environment. Therefore, Jordan cannot recommend changing the classification of the Witmer Road Site on the New York State Registry of Inactive Hazardous Waste Sites.

To obtain data to confirm or deny hazardous waste disposal, Preliminary Site Assessment (PSA) Task 3 activities should be initiated. Jordan recommends sampling the waste piles, the residual tar-like substance, the liquid in the 55-gallon containers, and the soil beneath the waste containers, and analyzing these for the USEPA Target Compound List (TCL) of organic and inorganic compounds, and for characteristics of Extraction Procedure (EP) toxicity, ignitability, corrosivity, and reactivity. These data will be used to determine hazardous waste characteristics and to identify hazardous constituents.

Based on the results of PSA Task 3 activities, the New York State Department of Environmental Conservation (NYSDEC) will decide whether PSA Task 4 activities should be initiated to determine whether the wastes present a significant threat to public health or the environment. Should Task 4 activities be required, Jordan recommends sampling the nearby private wells and analyzing these samples for the TCL, or at a minimum, compounds detected in PSA In addition, downgradient monitoring wells Task 3 activities. should be installed, sampled, and analyzed for the USEPA TCL to determine if New York State ambient and drinking water standards have been exceeded. Hydrogeological information gained during the installation of downgradient wells will be evaluated to define groundwater flow from the site. This information will be assessed to determine the potential threat of groundwater contamination to nearby private wells.

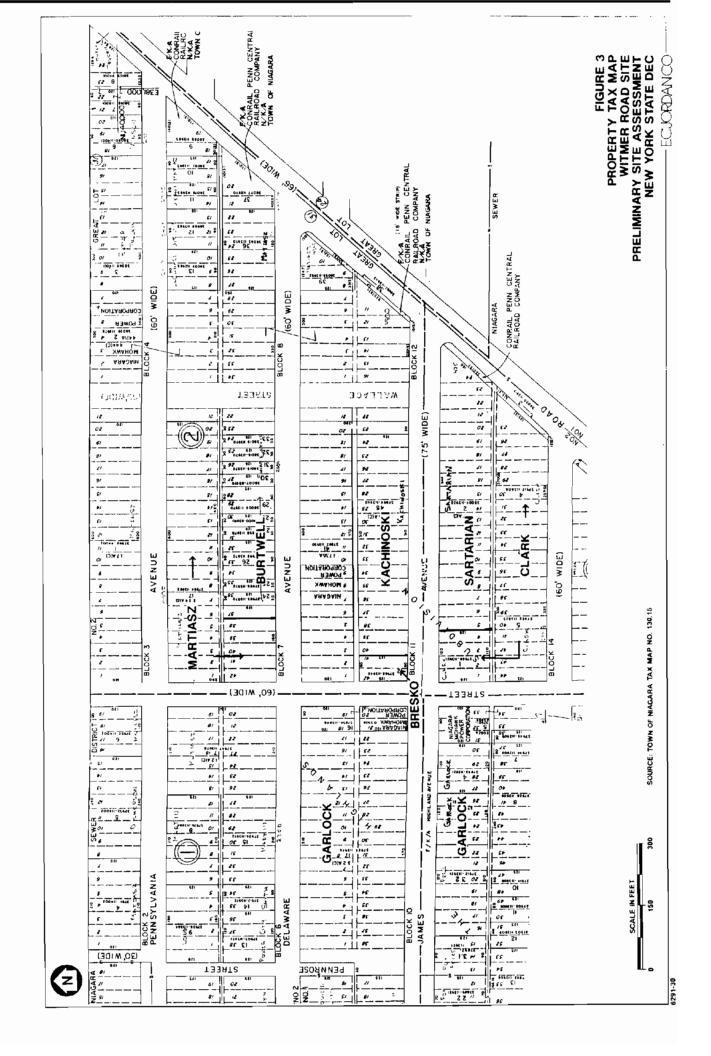
A legal title search should also be conducted for the Witmer Road disposal area and abutting properties to identify current and previous owners. A field survey should be conducted to identify and clearly establish property boundaries.





-ECJORDANCO

6291-30





NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF HAZARDOUS WASTE REMEDIATION

Copy—REGION
Copy—DEE
Copy—DOH
Copy—PREPARER

ADDITIONS/CHANGES TO REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES

1. SITE NAME		2. SITE NO.		3: TOWN		4. COUNTY
Witmer Road		932023	7	Town of N	iagara	Niagara
5. REGION	6. CLASSIFICATION		7. ACTIVITY			
9	Current 2a /Proposed		☐ Add		Delist XX Mo	dify
a. DESCRIBE	LOCATION OF SITE (Attach U.	S.G.S. Topog	graphic Map	showing site locati	on).	
The Witmer Road Site is located at 400 Witmer Road, in the Town of Niagara, Niagara						
County,	New York.					
b. Quadrang	e Niagara Falls c. s	ite Latitude	43°07 <u>'</u> 1	19", Longitude	79°02 ' 41"	d. Tax Map Number <u>130.15</u>
a BRIEFLY DI	ESCRIBE THE SITE (Attach site	plan snowir	ng disposal/s	ampling locations)		
to the e		ography	y was fl	lat, however		st, and Witmer Road e deposits, surface
b. Area	1 acres	EDAID N	umber NYI	980509459	d. PA/Si X	Yes No
		hase II	PSA	Sampling	_ U. FAISI 14	₩ 163 E. NO
e. Complet	ST THE TYPE AND QUANTITY			<u>-</u>	TES THAT IT WAS DIS	POSED OF AT THIS SITE
	_					ite walkover revealed
	- -			_		rs. Approximately 10
	these waste conta ately 12 to 14 dru					
approxim	ately 12 to 14 dru	ms cont	Lained I	ainwater an	id unknown res	siduais.
1a. SUMMARI	ZED SAMPLING DATA ATTACH	ED				
Air	Groundwater S	urface Wate	er 🗌 s	ioil Waste	EP Tax	☐ tcl=.
b. List con	travened parameters and values	5				
No sampi	ing was performed	for thi	ls Preli	minary Site	Assessment	iask I.
2. SITE IMPAC	T DATA					
	ace water: Distance 1.4	mi	Discoules	West	•	fication AA
				**	_	
	indwater: Depth 10 ft.		Direction			•
	er supply: Distance 400	.ft. D	irection	North		Active Yes \Box No
l. Nearest build	ding: Distance100ft.	Direct	tion	East	Use	Office (garage)
e. Crops or live	stock on site?	XX No		j. Within a St	tate Economic Develop	ment Zone? 🔲 Yes 🏻 🖾 No
. Exposed haza	ardous waste? 🗀 Yes	🗌 No Un	nknown	k. For Class	2a: Code <u>5b</u>	Health Model Score No
. Controlled si	te access?	No		f. For Class	2: Priority Category	
. Documented	fish or wildlife mortality?]Yes \$	₩ No		e <u>No</u>	
	ecial status fish or wildlife resp			XNo n. Significan		No 🏧 Unknown
	A'S NAME Mr. Kachino					15. TELEPHONE NUMBER
13. SITE OWNER'S NAME Mr. Kachinoski 14. ADDRESS Kach's Auto Service 15. TELEPHONE NUMBER 4800 Witmer Rd. Niagara Falls, NY (716) 282-3455						
	m Mr. Bresko				-	710 / 202 3433
	oger Bondeson					E.C. Jordan Co
				e and Organization		1
	<u>6, 1991</u>				CORD C	relegan
7. APPROVE	Date				Signature	
ALLAUTE	-					
-			Name, Titl	e and Organization		
			-			
Г	316				Signature	

2.0 PURPOSE

The purpose of a PSA is to provide the information necessary for NYSDEC to adequately categorize a site according to the following classifications:

- Class 2 Hazardous waste sites presenting a significant threat to the public health or the environment.
- Class 3 Hazardous waste sites not presenting a significant threat to the public health or the environment.
- Delist Sites where hazardous waste disposal is not documented.

PSA Task 1, Data Records Search and Assessment, was conducted at the Witmer Road Site, Site No. 932027 in the Town of Niagara, Niagara County, New York, by Jordan personnel under the NYSDEC Superfund Standby Contract (Contract No. D002472, Work Assignment No. D002472-6).

The Witmer Road Site is a suspected inactive hazardous waste site recognized by NYSDEC. This site is currently classified as Class 2a because there is insufficient information to document hazardous waste disposal and/or assess the significance of potential risks to public health or the environment.

3.0 SCOPE OF WORK

PSA Task 1 consists of two data-gathering activities: a file review/records search and a site walkover. Specific activities performed for the Witmer Road Site under these functions are described in the following subsections.

3.1 File Reviews

The Jordan project team began collecting information on the Witmer Road Site at the NYSDEC Central Office in Albany, New York, during the week of June 25, 1990. In addition, Jordan personnel reviewed files and obtained site information at the NYSDOH, the USGS, the U.S. Fish and Wildlife Service, the New York State Department of Transportation, and the New York State Geological Survey.

During the weeks of July 16 and 23, 1990, the Jordan team collected additional information on property ownership, land use, wetlands, and critical habitats from regional sources. The following agencies and county offices were visited:

- New York State Department of Environmental Conservation Region 9
 584 Delaware Avenue Buffalo, NY 14202
- New York State Department of Environmental Conservation Region 9
 600 Delaware Avenue Buffalo, NY 14202
- New York State Department of Health Western Regional Office
 584 Delaware Avenue
 Buffalo, NY 14202
- Niagara County Health Department Environmental Health Services 10th and East Falls Street Niagara Falls, NY 14302

The following individuals were interviewed:

Paul Dicky
Public Health Engineer
Niagara County Health Department
10th and East Falls Street
Niagara Falls, New York
(716) 284-3128

Jim Wilding
Environmental Engineer II
New York State Department of Environmental Conservation
Region 9
600 Delaware Avenue
Buffalo, New York 14414
(716) 847-4585

3.2 Site Walkover

On July 19, 1990, a site walkover was conducted at the Witmer Road Site. The following individuals participated:

Name	Title	Affiliation
Roger Bondeson Cathy Lanois Jim Wilding Sri Maddineni Bill Kachinoski	Environmental Scientist Environmental Scientist Environmental Engineer II Environmental Engineer II Property Manager	E.C. Jordan Co. E.C. Jordan Co. NYSDEC Region 9 NYSDEC Central Kach's Auto Service

The site tour began at 1:30 p.m. Before entering the site, the field team calibrated a photoionization detector to monitor ambient air quality during the inspection. The resulting data were used to confirm that worker health was protected and safety procedures could be instituted if concentrations were detected above background levels. No readings above background levels were observed during the site visit.

A site sketch illustrating the waste disposal areas and abutting properties is shown in Figure 2. The site walkover began on the eastern side of the Kachinoski property. Numerous used automobiles, engines, engine parts, gasoline tanks, and tires were observed on-site. Stained soils were also observed in the disposal areas.

West of the Kachinoski property, as marked by railroad ties, Jordan personnel observed mounds of fill material and exposed piles of The waste piles extended under the Niagara Mohawk Power Corporation lines to a metal fence at the boundary of another scrap yard, owned by Mr. Garlock. The exposed waste piles form an "L"shaped mound along the power line right-of-way. The waste was had a granular texture, and appeared to be a chalky-white, combination of ash and slag. Along the northern border of the Kachinoski property and the Niagara Mohawk Power Corporation rightof-way, Jordan personnel observed approximately 12 to 14 unlabeled, 55-gallon containers standing upright. Jordan personnel and unknown residual liquids in these observed rainwater Approximately 10 to 15 partially buried 55-gallon containers. containers were also observed in this area, containing a solid black pitch or tar-like substance.

The Witmer Road disposal area is easily accessed through unsecured field roads located on the western, southern, and eastern areas of the disposal site. Portions of the abutting scrap yards are fenced; however, the roads traversing the area are not fenced or gated, allowing easy access to the site.

Photographs of the site were taken to be included in the site file. The inspection was completed at 3:30 p.m.

4.0 SITE ASSESSMENT

The following subsections describe the information obtained during the records search, interviews, and site walkover of the Witmer Road Site.

4.1 Site History

Because property boundaries are not well marked, ownership of the Witmer Road disposal area is uncertain. Potential property owners include (Town of Niagara, 1990):

- Mr. Adolph Kachinoski Kach's Scrap Company
- Mr. Ryding Sartarian Company
- Mr. Garlock Garlock scrap yard
- Mr. Bresko
- Mr. Clark
- Mr. Burtwell

In addition, the Town of Niagara owns the "paper roads" and the Niagara Mohawk Power Corporation owns right-of-ways for overhead power lines. Some of these property owners either own or have parcels abutting portions of the Witmer Road Site.

From the early 1950s to late 1965, the Witmer Road disposal site reportedly was used to dump various types of waste including lime clean-outs from the International Mineral and Chemical Company, wastes from air pollution control equipment owned and operated by Airco Alloys, and slag materials from the Vanadium Corporation (Niagara County Health Department, 1982). The City of Niagara Falls reportedly operated two refuse burning pits on the Kachinoski property. Paper, furniture, and wood debris reportedly were burned in these pits and the resulting ash was disposed of off-site. Burning operations ceased in the 1960s due to citizen complaints of odor and smoke (Engineering-Science, 1986).

Aerial photographs dated 1951, 1958, 1966, and 1977 show that the Witmer Road disposal area has undergone many changes in the last 30 years (Appendix C). In 1951, the Witmer Road disposal site was heavily vegetated and undeveloped -- with the exception of a junk yard south of the site. In 1958, the site had been cleared of vegetation and worked by heavy machinery. By 1966, a portion of the site had been developed into a junk yard.

In 1977, exposed areas were still visible; however, most of the site was beginning to show evidence of revegetation. Several other scrap yards appeared to be operating in the vicinity of the Witmer Road disposal area (Niagara County Soil and Water Conservation District, 1951, 1958, 1966, and 1977).

A deed review at the Niagara County Registry of Deeds shows that a portion of the Witmer Road property was owned by C. Edgar Allen in

1958. In 1960, Mr. Allen sold the property to George W. Wehrmeyer and Raymond R. Simons. This property consisted of Lots 24-40 (Figure 3). According to the deed review, Adolph L. Kachinoski purchased property (i.e., Lots 24-40) from George W. Wehrmeyer and Raymond R. Simons in October 1965. Mr. Adolf Kachinoski has operated this property as a junk yard from 1965 to the present.

The Witmer Road disposal area may also include properties owned by abutting scrap yard operators, and right-of-ways owned by the Town of Niagara and the Niagara Mohawk Power Corporation. Site ownership, as understood from the file review, is illustrated in Figure 3. The old refuse burn pits operated by the City of Niagara Falls have been back-filled and are now covered by junk automobiles in the Kachinoski junk yard. The Witmer Road Site is currently used as a scrap yard. There was no evidence of scavenger dumping on the Witmer Road Site at the time of the site walkover.

4.2 Site Topography

The Witmer Road Site is located at 4800 Witmer Road in the Town of Niagara, Niagara County, New York. Before any disposal activities occurred, the ground surface of the site was relatively flat. Surface topography is currently altered by several mounds of waste materials. Weeds, brush, shrubs, and sparse grasses are growing throughout the disposal area; however, some areas have remained void of growth.

Topography of the Witmer Road disposal area, including portions of the Kachinoski and Bresko properties, is undulating, indicating the presence of buried waste piles. The disposal area is bordered on the south by the Sartarian scrap yard, to the west by the Garlock scrap yard, to the north by Burtwell scrap yard, and to the east by Kach's Auto Service and Witmer Road (see Figure 2).

4.3 Site Hydrology

The following paragraphs describe what is known about the hydrologic setting at the Witmer Road Site. Soils on the Witmer Road Site consist of the Odessa-Lakemont-Ovid association which are somewhat poorly to very poorly drained reddish soils (Engineering-Science, 1986). Surficial geology at the Witmer Road Site is not well documented; however, soil borings from the Hyde Park Landfill study (Bergeron, 1984) and on-site borings drilled by USGS in 1982 provide a general indication of the soil profile. The USGS borings were drilled near the old burn pits on the Kachinoski property. The general soil profile is as follows:

Feet Below Ground Surface

Soil Description

0 to 2 2 to 5 5 to 10 approximately 10 Fill and waste materials Clay and silts Reddish silt and gray clay Bedrock

Bedrock is expected to be Lockport Dolomite. No groundwater was encountered above bedrock in the USGS borings. According to information in the Hyde Park Landfill Study, groundwater flow is expected to be west toward the Niagara River. The Hyde Park Landfill is located approximately 1,400 feet north of the Witmer Road Site. The depth to groundwater is expected to be 15 feet (Bergeron, 1984).

The permeability of the unsaturated zone is expected to be 10⁻⁴ to 10⁻⁸ centimeters per second (cm/sec) and the permeability of the Lockport Dolomite bedrock is expected to be 10⁻⁴ to 10⁻⁸ cm/sec (Engineering-Science, 1986).

Most residents in the vicinity of the Witmer Road Site are served by a public water system that obtains drinking water from the Niagara River. According to information provided by the Town of Niagara Water Department, there were six residences with private drinking water wells located on Pennsylvania and Delaware avenues approximately 400 feet northeast of the site. Three of these residences have been connected to public water and no longer use the wells. The remaining three, all located on Delaware Avenue, still use well water. Owners of these properties are Mr. Ewing, Mr. Burtwell, and Mr. Matiasz (Town of Niagara Water Department, 1990).

It is important to note that Delaware and Pennsylvania avenues are also "paper roads" that were never constructed. Access to the Mataisz, Burtwell, and Ewing residences is via a gravel road locally referred to as Delaware Avenue. Although the Matiasz residence is located on Pennsylvania Avenue, the property is accessed via Delaware Avenue.

4.4 Contamination Assessment

In 1982, USGS collected soil samples from borings placed adjacent to the old burning pits (see Figure 2). Laboratory analysis of these samples detected copper, VOCs, SVOCs, and unknown hydrocarbons at concentrations between 22.9 and 4,160 μ g/kg (USGS, 1982). However, these data are questionable because sample holding times were exceeded and surrogate recoveries were above or below acceptable limits. No background soil samples were collected by the USGS.

In 1984, NYSDOH collected groundwater samples from five private drinking water wells located along Delaware and Pennsylvania avenues. Data were available for three of these samples. Low concentrations of VOCs (i.e., below 6 $\mu g/L$) were detected in these samples (Table 1) (NYSDOH, 1984 and 1985). These concentrations are below New York State drinking water standards, with the exception of trichloroethylene, which was detected at 6 $\mu g/L$ in the Webber well on Pennsylvania Avenue. Because of limited information about well specifications and groundwater flow in this area, Jordan cannot determine whether these contaminants are attributable to the Witmer Road Site, the Hyde Park Landfill, or other potential sources.

In July 1987, NUS conducted a Site Investigation of the Witmer Road Site for USEPA and collected four soil samples in the refuse pits and surrounding areas (see Figure 2). NUS is under contract to USEPA to conduct a Preliminary Assessment of the Witmer Road Site. According to the USEPA Region II office, the NUS report will be finalized in early 1991. The soil sample analysis revealed detectable concentrations of metals, VOCs, SVOCs, pesticides, and PCBs. Levels of PCBs (i.e., 320 to 800 $\mu \rm g/kg)$ were less than 50 milligrams per kilogram (mg/kg), at which PCBs are defined as hazardous under 6 NYCRR 371. Lead was detected at levels of 162 to 577 mg/kg and chromium was detected at levels of 48 to 393 mg/kg. A copy of the NUS Corporation sampling results is attached as Appendix D.

TABLE 1 CONTAMINANT CONCENTRATIONS IN PRIVATE WELLS

WITMER ROAD SITE PRELIMINARY SITE ASSESSMENTS

WELL OWNER	CHEMICAL NAME/CONCENTRATION	NYSDOH STANDARD
Mr. & Mrs. Frank Webber 2705 Pennsylvania Avenue Niagara Falls, New York 14305	trans-1,2-dichloroethene $6-\mu g/m$ trichloroethylene-6 $\mu g/m$ benzene-1 $\mu g/m$	L 5 μg/L 5 μg/L 5 μg/L
Mr. & Mrs. Victor Untulis 2645 Pennsylvania Avenue Niagara Falls, New York 14305	dichloromethane-1 μ g/L, trans-1,2-dichloroethene-2 μ g/trichloroethylene-2 μ g/L benzene-1 μ g/L	5 μg/L L 5 μg/L 5 μg/L 5 μg/L
Mrs. John LaChance 2633 Pennsylvania Avenue Niagara Falls, New York 14305	trans-1,2 dichloroethene-2 μ g/trichloroethylene-2 μ g/Lbenzene-1 μ g/L	L 5 μg/L 5 μg/L 5 μg/L

NOTE: Samples collected November 14, 1984 NYSDOH - New York State Department of Health $\mu {\rm G}/{\rm l}$ = micrograms per liter

5.0 ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

5.1 Hazardous Waste Deposition

Information collected and reviewed by Jordan personnel was insufficient to document the disposal of hazardous waste at the Witmer Road Site as defined by New York State regulations (6 NYCRR 371). However, soil sample analysis by USGS and NUS indicate that hazardous substances may be present in soils collected at the site. Jordan personnel observed a solid pitch or tar-like substance in 10 to 15 unlabeled 55-gallon containers, and rainwater and unknown residual liquids in 12 to 14 containers. This site has been used for several years by area industries and the City of Niagara Falls to dispose of or burn a variety of wastes.

5.2 Significant Threat Determination

The threat to public health and the environment from the Witmer Road Site is unknown. Water samples collected in 1984 by NYSDOH from five private residences showed low levels of VOCs. Data was only available for three of the five wells sampled. The levels of organics detected in these wells were below NYSDOH drinking water standards with the exception of trichloroethylene, which was detected at 6 μ g/L in one well located on Pennsylvania Avenue (see Subsection 4.4). The wells located on Pennsylvania Avenue are no longer in use as these residences have been connected to public water. The other wells, located on Delaware Avenue, approximately 400 feet northeast of the site, are still in use. Because groundwater flow and hazardous waste deposition of the Witmer Road Site are unknown, the threat to the drinking water wells on Delaware Avenue is unknown.

Soil data collected by USGS and NUS indicate the presence of copper, VOCs, SVOCs, and unknown hydrocarbons in the soils adjacent to the old refuse pits located on the Kachinoski property. The accuracy of these data is unknown because holding times were exceeded and surrogate recoveries were above or below acceptance limits. Although metals, VOCs, SVOCs, and PCBs were detected in the soils, there are no standards to compare these data and assess the threat to public health and the environment. PCBs were detected below levels considered to be hazardous (i.e., 50 mg/kg) (NUS Corporation, 1987).

The Witmer Road Site is easily accessed via power line easements and field roads. This presents a potential for direct contact with and exposure to potentially contaminated soils. Given the types of waste reportedly on the site, inhalation of contaminated particulates is not likely; however, the wastes should be characterized to further assess the potential threat to public health and the environment.

The nearest wetland larger than 5 acres is more than two miles away and there are no critical habitats, endangered species, or national wildlife refuges within one mile of the site (Sneider and Wilkinson, 1985). The Niagara River, which supplies public drinking water, is 1.4 miles west of the site.

5.3 Recommendations

Information collected and reviewed by Jordan personnel was insufficient to document the disposal of hazardous waste at this site or to determine whether the site poses a significant threat to public health and the environment. Therefore, Jordan cannot recommend changing the classification of the Witmer Road Site on the New York State Registry of Inactive Hazardous Waste Sites.

To obtain data to confirm or deny hazardous waste disposal, PSA Task 3 activities should be initiated. Jordan recommends sampling the waste piles, the residual tar-like substance, the residual liquid in the containers; and the soil beneath the containers, and analyzing these for the USEPA TCL and for characteristics of EP toxicity, ignitability, corrosivity, and reactivity. These data also will be used to determine hazardous waste characteristics and identify hazardous constituents.

Based on the results of PSA Task 3 activities, NYSDEC will decide whether PSA Task 4 activities should be initiated to determine whether any wastes present a significant threat to public health or the environment. Should Task 4 activities be required, Jordan recommends sampling the nearby private wells and analyzing these samples for the TCL, or at a minimum, compounds detected in PSA Task 3 activities. In addition, downgradient monitoring wells should be installed, sampled, and analyzed for the TCL to determine whether groundwater exceeds ambient and drinking water standards. Hydrogeologic data from these wells also will define groundwater This information will be used to assess the potential threat of groundwater contamination in private wells. A legal title search should be conducted for each property owner on or near the disposal site to determine current and previous ownership of the disposal area. Field surveys should be conducted to mark property boundaries.

GLOSSARY OF ACRONYMS AND ABBREVIATIONS

cm/sec centimeters per second

EP Extraction Procedure

NYCRR New York Code of Rules and Regulations

NYSDEC New York State Department of

Environmental Conservation

NYSDOH New York State Department of Health

NUS Corporation

mg/kg milligrams per kilogram

PCB polychlorinated biphenyl PSA Preliminary Site Assessment

SVOC semivolatile organic compounds

TCL Target Compound List

 $\mu g/L$ micrograms per liter $\mu g/kg$ micrograms per kilogram

USEPA U.S. Environmental Protection Agency

USGS U.S. Geologic Survey

VOC volatile organic compounds

APPENDIX A REFERENCES

REFERENCES

- Bergeron, M.P., 1984. "Analysis of Groundwater Flows in Vicinity of Hyde Park Landfill, Niagara Falls, New York"; U.S. Geological Survey Administrative Report.
- Engineering-Science, 1986. "Engineering Investigations at Inactive Hazardous Waste Sites, Phase I Investigation, Witmer Road Site, Site Number 932027"; prepared for New York State Department of Environmental Conservation, Division of Solid and Hazardous Waste; January 1986.
- Kachinoski, Bill, 1990. Operator of Kach's Auto Service, 4800 Witmer Road, Niagara Falls, New York, 14305; Personal Communication with Roger Bondeson, E.C. Jordan Co., Portland, Maine.
- New York State Department of Environmental Conservation (NYSDEC), Division of Hazardous Waste Remediation, Central Office, Albany, New York; Contact: Sri Maddineni.
- New York State Department of Environmental Conservation NYSDEC), Region 9, Division of Solid and Hazardous Waste, 584 Delaware Avenue, Buffalo, New York; Contact: Jim Wilding.
- New York State Department of Health (NYSDOH), Western Regional Office, 584 Delaware Avenue, Buffalo, New York; Contact: Cameron O'Connor.
- New York State Department of Health (NYSDOH), 1984.
 "Well Water Analysis of Five Private Wells on Pennsylvania and Delaware Avenues, town of Niagara"; Albany, New York.
- New York State Department of Health (NYSDOH), 1985. Corning Tower, The Governor Nelson A. Rockefeller Empire State Plaza, Albany, New York. Correspondence with Victor Untulis, Mrs. John LaChance, and Frank Webber; Dated February 22, 1985.
- New York State Department of Transportation, 1989. <u>Topographic</u> <u>Map</u>, Niagara Falls Quadrangle.
- Niagara County Health Department, 10th and East Falls Street, Niagara Falls, New York; Contact: Paul Dickey.

REFERENCES (Continued)

- Niagara County Health Department (NCHD), 1982. "Preliminary Investigation and Profile Reports for Twenty-Six Suspected Industrial Disposal Sites in Niagara County, New York"; Niagara Falls, New York; March, 1982.
- Niagara County Registry of Deeds, Niagara County Clerk, 175 Hawley Street, Lockport, New York 14094.
- Niagara County Soil and Water Conservation District, Farm and Home Center, 4487 Lake Avenue, Lockport, New York 14094; Contact: Richard Tillman.
- NUS Corporation, 1987. "Potential Hazardous Waste Site Inspection Report, Witmer Road Site"; prepared for EPA Region II, Edison, New Jersey; July 21, 1987.
- Sneider, Jim, and Mike Wilkinson, New York State Department of Environmental Conservation, Division of Fish and Wildlife, 1985. Personal communication with Engineering Science, 1/10/85 to 1/11/85.
- Town of Niagara, Tax Assessors Office, 7105 Lockport Road, Niagara Falls, New York 14304.
- Town of Niagara, Water Department, 7105 Lockport Road, New York 14304; Contact: Velma Rafferty.
- U.S. Department of Agriculture (USDA) Soil and Water Conservation District, Niagara County, 4487 Lake Avenue, Lockport, New York, 14094; Aerial Photographs 10/14/51, Map Number ARE-5H-153, 8/2/58; ARE-IV-24, 6/12/66; ARE 2-GG-50, 1/77; 36063-177-91.
- U.S. Geological Survey (USGS), 1982. "Draft Report of Preliminary Evaluation of Chemical Migration to the Niagara River from Hazardous Waste Disposal Sites in Erie and Niagara Counties, 1983."

APPENDIX B SITE INSPECTION REPORT (USEPA FORM 2070-13)

POTENTIAL HAZARDOUS WASTE SITE

I.IDENTIFICATION

01	STATE

EPA	SITE INSPECTION REPORT						01 SITE	NUMBER	
PART 1 - SITE LOCATION AND INSPECTION INFORMATION						York	D980509	459	
II. SITE NAME AND LOC	CATION								
01 SITE NAME (Legal, cor	nmon, or descriptive name	of site)		02 STRE	ET, ROUTE NO	., OR SPECIFIC	LOCATION	IDENTIFIE	R
Witmer Road Site				Witmer R	oad at Maryl	and Avenue			
03 CITY				04 STATE	05 ZIP COD	E 06 COUNTY		07 COUNTY	08 CONG.
Niagara				New York	14305	Niagara		CODE 063	DIST 36
09 COORDINATES LATITUDE 4 3° 0 7' 1 9"	LONGITUDE 79° 02'41"	X A.	OF OWNERSHIP PRIVATE B OTHER	. FEDERAL	•	C. STATE _ D.	COUNTY	_ E. MUNI	CIPAL
III. INSPECTION INFO	RMATION					_		-	
01 DATE OF INSPECTION 7 / 19 / 90 MONTH DAY YEAR	X ACTIVE	03 YEAR	S OF OPERATION 194	0's	Prese END1	nt NG YEAR	UNKNOWN	_	
04 AGENCY PERFORMING _ A. EPA _ B. EPA	INSPECTION (Check ell t	that epply)		_ C. MUN	ICIPAL _ D.	MUNICIPAL CONT	RACTOR _		
_ E. STATE X F. STAT	E CONTRACTOR _E.C.	<u>Jordan C</u>	<u></u>	_ G. OTH	ER			(Name of fir	m)
	1)	Name of fir	m)			(Sp	ecify)	_	
05 CHIEF INSPECTOR Roger L. Bondeson			TITLE ironmental Sc	ientist		07 ORGANIZATION E.C. Jordan Co.		08 TELEF (207) 77	PHONE NO. 75-5401
09 OTHER INSPECTORS Kathy Lanois			TITLE ironmental Sc	ientist		11 ORGANIZATION E.C. Jordan Co.	12 TELEF (617) 24	HONE NO.	
								()	
								()	
								()	
								()	
13 SITE REPRESENTATIV	/ES INTERVIEWED	14 1	14 TITLE 15 ADDRESS			-		16 TELEP	HONE NO.
Bill Kachinoski	_	Site	Site Manager 4800 Witmer Road Niagara Falls, N			ork 14305		(716) 28	12-3455
								()	
				ļ				()	
_								()	
								()	
								()	
17 ACCESS GAINED BY (Check one) X PERMISSION 1:30 pm Sunny, 85° F, - 90° F					F, - 90° F				
IV. INFORMATION AVAIL	ABLE FROM								
01 CONTACT Sri Maddineni			02 OF (Agency New York Sta			ronmental Conse	ervation	03 TELEP (518) 45	
04 PERSON RESPONSIBLE	FOR SITE INSPECTION	N FORM	05 AGENCY	06 (RGANIZATION	07 TELEPHO	ONE NO.	08 DATE 7/19/	/90
Roger L. Bondeson			E.C.	Jordan Co.	(207) 775	-5401	MONTH C	DAY YEAR	

Ş EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I.IDENTIFICATION

01 STATE

01 SITE NUMBER

		PART 2 - WASTE INFORMATION						New	York	D980509459	
II. WAST	TE STATES, C	MANTITIES, AND	CHARAC	TERISTICS					,		
Measure			(Massures of wasts quantities must be independent) X A. TOX TONS unknown CUBIC YARDS unknown			L TOXIO	CORROSIVE F. INFECTIOUS J. EXPLOSIVE RADIOACTIVE G. FLAMMABLE K. REACTIVE PERSISTENT H. IGNITABLE L. INCOMPATIBLE			(PLOSIVE CACTIVE	
_ D. OTH		scify)	"0"	OI DROHO _	unknown	_					APPLICABLE
III. WAS											
CATEGORY	SUBSTANCE	NAME	O1 GRO	DSS AMOUNT	02 UNIT O	F MEASURE	03 CO	DMMENT:	s 		
SLU	SLUDGE						• Unk	cnown	quantities of b	burned refuse	ash,
OLW	OILY WASTE						sus	specte	d slag and lime	e. Clean-out	
SOL	SOLVENTS						pos	ssible	containing ch	romium.	-
PSD	PESTICIDES	3									
occ	OTHER ORGA	NIC CHEMICALS					• Sev	⁄en pr	iority and 5 no	onpriority	
IOC	INORGANIC	CHEMICALS					org	janics	in soil		
ACD	ACIDS									-	
BAS	BASES										
MES	HEAVY META	\L\$	suspec	ted			• Chr	omium	in clean-out w	waste	
IV. HAZA	ARDOUS SUBST	ANCES (See Apper	ndix for n	nost frequenti	y cited CAS No	ımbers)					
01 CATEGO	DRY	02 SUBSTANCE	NAME	03 CAS NU	MBER	04/STOR	GE/DIS	POSAL	05 CONCENTRAT		ASURE OF NTRATION
occ		benzene		71-43-2		unknown			8.8	ug/kg	in soil
осс		1,1,1,TCA		71-55-6		unknown			22.9¹	ug/kg	in soil
осс		trichloroethe	ne	79-01-6		unknown			detectable	ug/kg	in soil
осс		fluoranthene		206-44-0		unknown			detectable	ug/kg	in soil
осс		naphthalene		91-20-3		unknown			detectable	ug/kg	in soil
осс		bis(2-ethylhe	xyl)	117-81-7		unknown			1041.2	ug/kg	in soil
осс		pyrene		129-0-00		unknown			detectable	ug/kg	in soil
осс		carbon disulf	ide	75-15-0		unknown			38.4	ug/kg	in soil
осс		2-methylnapht	halene	91-57-6		unknown			detectable	ug/kg	in soil
осс		dibenzofuran		43047-99-	0	unknown			detectable	ug/kg	in soil
MES		chromium		7440-47-3		unknown			393	mg/kg	in soil
MES		copper		7440-50-8	}	unknown			2.0-332	mg/kg	in soil
				¹holding	time	exceede	befor	е	enalysis		
				² surrogat		recover			above or belo	w accep	tance levels
				04110901		1,000.01				355 бр	
		Appendix for CAS N	umbers)		_				•		
CATEGO	RY 01 F	EEDSTOCK NAME		02	CAS NUMBER	CATEG	ORY	01 FE	EDSTOCK NAME		02 CAS NUMBER
FDS						FD	ŝ				
FDS						FD	š				
FDS						FD	š		w - 7.		
FDS						FD	\$				
VI. SOL	JRCES OF IN	FORMATION (Cite	epecifio r	eferences, e.g	,, state files, s	ample analy	sis, repor	rte)			

Preliminary Site Assessment Report, March 1991, E.C. Jordan Co., and references cited therein.

	POTENTIAL HAZARDO	1.IDENTIFICATION			
😪 EPA	SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS		01 STATE	01 SITE NUMBER	
•			New York	D980509459	
II. HAZARDOUS CO	ONDITIONS AND INCIDENTS				
01 X A. GROUNDWAT 03 POPULATION POT	TER CONTAMINATION TENTIALLY AFFECTED: < 10	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	, <u>X</u>	POTENTIAL _ ALLEGED	
Unlined pit may a	allow contaminants to migrate t	o groundwater.			
01 B. SURFACE W 03 POPULATION POT	WATER CONTAMINATION FENTIALLY AFFECTED:	02 OBSERVED (DATE: 04 WARRATIVE DESCRIPTION	, <u>X</u>	POTENTIAL _ ALLEGED	
N/A					
01 C. CONTAMINA 03 POPULATION POT	ATION OF AIR TENTIALLY AFFECTED:	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	, _	POTENTIAL _ ALLEGED	
N/A					
01 D. FIRE/EXPL 03 POPULATION POT	OSIVE CONDITIONS TENTIALLY AFFECTED:	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION)	_ POTENTIAL _ ALLEGED	
01 X E. DIRECT CO 03 POPULATION POT	ONTACT TENTIALLY AFFECTED:	02 OBSERVED (DATE: 04 WARRATIVE DESCRIPTION	, <u>x</u>	POTENTIAL _ ALLEGED	
Access to site is	s unrestricted and there are se	everal exposed waste piles.			
01 X F. CONTAMINA 03 ACREAGE POTENT	ATION OF SOIL FIALLY AFFECTED: 10-100	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION) <u>X</u>	POTENTIAL _ ALLEGED	
Soil contamination Volatiles, semi-volatiles, semi-volevels less than	volatiles, and pesticides have	Corporation Site Investigation, been detected. PCB's have been	July, 1987. n detected at		
01 X G. DRINKING 03 POPULATION POT	WATER CONTAMINATION TENTIALLY AFFECTED: < 10	OZ OBSERVED (DATE: 04 NARRATIVE DESCRIPTION) <u>x</u>	POTENTIAL _ ALLEGED	
There are three o	drinking water wells located 40	00 feet northeast of the site.			
01 H. WORKER EX	XPOSURE/INJURY TENTIALLY AFFECTED:	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION		POTENTIAL _ ALLEGED	
Unknown					
	ON EXPOSURE/INJURY TENTIALLY AFFECTED:	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION		POTENTIAL _ ALLEGED	
Unknown					

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

1.IDENTIFICATION

& LFA SITE INSTECTION REPORT	UI SIAIE	UT SITE NUMBER
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS	New York	D980509459
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)		
01 J. DAMAGE TO FLORA 02 _ OBSERVED (DATE 04 NARRATIVE DESCRIPTION	:) _ POTE	NTIAL _ ALLEGED
Unknown		
01 K. DAMAGE TO FAUNA 02 _ OBSERVED (DATE 04 NARRATIVE DESCRIPTION (Include name(s) of species)	:) _ POTE	NTIAL _ ALLEGED
Unknown		
01 L. CONTAMINATION OF FOOD CHAIN 02 _ OBSERVED (DATE 04 WARRATIVE DESCRIPTION	:) _ POTE	NTIAL _ ALLEGED
Unknown		
01 X M. UNSTABLE CONTAINMENT OF WASTES (Spille/Runoff/Standing liquide, Leeking drume) 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIP	:	NTIAL _ ALLEGED
Site is not covered or lined.		
01 N. DAMAGE TO OFFSITE PROPERTY 02 OBSERVED (DATE 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRI	:	NTIAL _ ALLEGED
Unknown		
01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS 02 OBSERVED (DATE 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIP	PTION POTE	NTIAL _ ALLEGED
N/A		
01 X P. ILLEGAL/UNAUTHORIZED DUMPING 02 OBSERVED (DATE 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIP	: X POTE	NTIAL _ ALLEGED
Site access is not restricted and grounds are not supervised.		
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS		
Industrial wastes suspected to have been disposed on-site, groundwater and	d soils may be contamin	ated by wastes on-site.
III. TOTAL POPULATION POTENTIALLY AFFECTED: 10 - 100	_	<u> </u>
IV. COMMENTS		-
There is no documentation of hazardous waste deposition. Several piles of unlabeled 55-gallon containers containing a tar-like substance and other were also observed.	f exposed wastes were of drums containing rainwa	bserved. Numerous ter and unknown residuals
V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample snelysis, repo	rts)	
Preliminary Site Assessment Report, March 1991, E.C. Jordan Co., and refe	rences cited therein.	

7	9	ΕP	Α
П	.	PERMI	T INF
01			PERM that s
_	A.	NPDE	S
_	В.	UIC	
_	C.	AIR	
_	D.	RCRA	
-	E.	RCRA STAT	INTE
_	F.	SPCC	PLAN

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I.IDENTIFICATION	
01 STATE	01 SITE NUMBER
New York	D980509459

PART 4 -	PERMIT AND DESCRI	New York	DS	D980509459				
II. PERMIT INFORMATION								
01 TYPE OF PERMIT ISSUED (Check all that apply)	that apply)							
_ A. MPDES								
_ B. UIC								
_ C. AIR _ D. RCRA		<u> </u>						
_ E. RCRA INTERIM								
_ F. SPCC PLAN								
_ G. STATE (specify)	-		_	<u> </u>				
_ H. LOCAL (specify)								
_ I. OTHER (specify)								
X J. NOME								
III. SITE DESCRIPTION		•						
01 STORAGE/DISPOSAL (check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (check all that apply)		05 OTHER X A. BUILDINGS ONSITE			
A. SURFACE IMPOUNDMENT B. PILES C. DRUMS, ABOVE GROUND D. TANK, ABOVE GROUND E. TANK, BELOW GROUND F. LANDFILL G. LANDFARM X H. OPEN DUMP I. OTHER (apacify)	unknown	unknown	A. INCINERATION B. UNDERGROUND C. CHEMICAL/PHYS D. BIOLOGICAL E. WASTE OIL PROFESSORY F. SOLVENT RECOVE G. OTHER RECYCL: H. OTHER	06 AREA OF SITE Approx. 1 (acres)				
O7 COMMENTS The site has been used as a dumping area since the 1940's to dispose of wastes including refuse, construction debris, lime clean-outs, large non-combustible items, slag, and dust collected from air pollution control devices. IV. CONTAINMENT								
01 CONTAINMENT OF WASTES (c)	heck one)							
A. ADEQUATE, SEC		X C. INADEQUATE,	POOR _ D. INSECUR	E, UNSOUND,	DANGEROUS			
02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC. Uncontrolled dumping of materials onto the ground has occurred at the site since the 1940's. Wastes are not covered and site is not lined.								
V. ACCESSIBILITY								
01 WASTE EASILY ACCESSIBLE: X YES _ NO 02 COMMENTS								
The sita is not secured or	The sita is not secured or fenced to prevent unauthorized entry.							
VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)								
Preliminary Site Assessment Report, March 1991, E.C. Jordan Co., and references cited therein.								

PC	I.IDENTIFICATION							
∣ 😂 EPA	SITE INSPECTION I	ECTION REPORT 01 STA				O1 SITE NUMBER		
PA	RT 5 - WATER, DEMOGRAPHIC, AND E	NVIRONMENT	AL DATA		New York	D9	80509459	
II. DRINKING WATER SUPP	LY							
01 TYPE OF DRINKING SUP	PLY	02 STAT	us			03 DI	STANCE TO SIT	E
COMMUNITY	SURFACE WELL	ENDANGE			DNITORED		1 4	(mi)
NON-COMMUNITY	8. <u>X</u> 8. <u>X</u>	A. D. <u>X</u>	Ē	` <u>_</u>	C F	8: <u>_</u>	400 ft.	(mi) (mi)
III. GROUNDWATER								
01 GROUNDWATER USE IN V	ICINITY (check one)							
_ A. ONLY SOURCE FOR DRINKING	X B. DRINKING (other sources evailable) COMMERCIAL, INDUSTR (No other water sources a		GATION		CIAL INDUSTRIA I other sources avai			NOT USED, UNUSABLE
02 POPULATION SERVED BY	GROUNDWATER < 10		03 DISTANG	E TO NEARE	ST DRINKING WA	TER WEL	L 400 ft.	(mi)
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWA	TER FLOW	06 DEPTH OF CON	O AQUIFER	07 POTENTIAL OF AQUIFER		08 SOLE SOUR	CE AQUIFER
<u>≈ 15</u> (ft)	southwest		_ × 15	(ft)	Unknown	(gpd)	_ YES	X NO
09 DESCRIPTION OF WELLS	(including usage, depth, and locat	tion relative t	to population a	nd buildings)				
No industrial wells. N	lumerous observation wells	for PASNY	'Landfill	Study 1984	, Reservoir Po	wer Pro	jects, Hyde Pa	ark.
10 RECHARGE AREA			11 DISCI	IARGE AREA				
YES COMMENTS - Unkno	wn		_ YES C	COMMENTS -	Unknown			
IV. SURFACE WATER								
O1 SURFACE WATER USE (C X A. RESERVOIR, RECREAT DRINKING WATER SOU	TION _ B. IRRIGATION, ECO	DNOMICALLY JRCES	_ c. co	MMERCIAL I	NDUSTRIAL _	o. NOT (CURRENTLY USEC)
02 AFFECTED/POTENTIALLY	AFFECTED BODIES OF WATER							
NAME:					AFFEC	TED DI	ISTANCE TO SIT	ſE
Niagara River		_				_	1.4	(mi) (mi)
		_						(mi)
Y. DEMOGRAPHIC AND PROP	ERTY INFORMATION							
01 TOTAL POPULATION WIT	'HIN				02 018	TANCE T	O NEAREST POP	ULATION
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	E THE	REE (3) MIL	ES OF SITE				
A. 8,972 NO. OF PERSONS	8. 28,897 NO. OF PERSONS	_ c.	51,7 NO. 0	F PERSONS			0.0	(mi)
03 NUMBER OF BUILDINGS	WITHIN TWO (2) MILES OF SI	ITE	04 01	STANCE TO I	NEAREST OFF-SIT	E BUILD	ING	
	> 10,000		_				0.0	(mi)
populated urban area)	ICINITY OF SITE (Provide marrat	·				-	e.g., rural, village,	, densely

EPA FORM 2070-13 (7-81)

POTENTIAL HAZARDOUS WASTE SITE

I.IDENTIFICATION

₽ EPA	SI	TE INSPECTION REPORT				01 STATE	01.6	O1 SITE NUMBER	
•		New York		01 SITE NUMBER					
PART 6 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA VI. ENVIRONMENTAL INFORMATION						New TOPK	טאפט	D980509459	
01 PERMEABILITY OF									
				c 10 ⁻⁴ -	10.9	cm/sec _ D. GR	EATED TU	AN 10 ⁻³ an/see	
_ #. 10 - 10	Cm/ Sec	<u>X</u> B. 10 - 10	cm/ sec	_ 0. 10 -	10	cm/sec _ D. GR	EAIEK IN	AN IU CM/Sec	
02 PERMEABILITY OF	BEDROCK (C	heck one) - Lockpo	rt Dolomite						
A. IMPERMEA (Tess than 10 ⁻⁶	BLE cm/sec)	X B. RELATIV	ELY IMPERMEABLE 10 ⁻⁰ cm/sec)	- C. RI	LATIV - 10	ELY PERMEABLE 4 cm/sec) (_D.VER Greater	Y PERMEABLE than 10 ⁻² cm/sec)	
03 DEPTH TO BEDROCK		04 DEPTH OF CON	TAMINATED SOIL	ZONE	05 SC	DIL Ph			
≖ 15	(ft)	unknown	(ft)		Uı	nknown_			
06 NET PRECIPITATIO	N	07 ONE YEAR 24	HOUR RAINFALL	08 SLOPE					
				SITE SLOPE	•	DIRECTION OF SIT	E SLOPE	TERRAIN AVERAGE SLOPE	
9	(in)	2.1	(in)	2.4	*	southwest		2.7	
09 FLOOD POTENTIAL			10						
SITE IS IN > 50	<u>0</u> YEA	R FLOODPLAIN	_ SITE IS	,				REA, RIVERINE FLOODWAY	
11 DISTANCE TO WETL	ANDS (5 aore	minimum)		12 DISTA	NCE TO	D CRITICAL HABITA	T (of endar	ngered species)	
EST	AUR I NE	ОТН	ER			Migratory Birds	> 1	1.0 (mi)	
A>	2.0 (m	ni) B. <u>> 1.</u>	<u>0</u> (mi)	ENDAN	GERED	SPECIES: Aquil	a Chrysae cep and I	etos, Haligaeetus Fallco Peregrenes	
13 LAND USE IN VICI	NITY								
DISTANCE TO:		,			_			_	
COMMERCIAL/IN	DUSTRIAL		REAS; NATIONAL/ OR WILDLIFE RE			AGRICULTU PRIME AG LAND		S AG LAND	
A. <u>0.0</u>	(mi)	В.	1.3	mi)	C	:. <u>>2</u> (mi)	D	>2 (mi)	
14 DESCRIPTION OF S	ITE IN REL	ATION TO SURROUN	DING TOPOGRAPHY	,			_		
Oisposal site consi surrounded by scrap the one acre site.	sts of pre yards. 0	eviously existing Ground surface is	"burn pits" fo relatively fla	r municipa t and poor	l garb ly dra	page. Pits have b lined. Weeds and	een fill brush ar	ed in and are now e growing throughout	
VII. SOURCES OF IN	FORMATION	(Cite specific reference	es, e.g., state files,	sample analysi	s, repai	rts)			

Preliminary Site Assessment Report, March 1991, E.C. Jordan Co., and references cited therein.

EPA FORM 2070-13 (7-81)

POTENTIAL HAZARDOUS WASTE SITE				1.IDENTIFICATION				
SITE INSPECTION REP			EPORT	01 STATE	01 SITE NUMBER			
				New York	D980509459			
II. SAMPLES TAKEM - No samples collected for this PSA Task 1.								
SAMPLE TYPE		01 NUMBER OF SAMPLES TAK	ŒN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE			
GROUNDWATER								
SURFACE WATER								
WASTE								
AIR								
RUNOFF								
SPILL								
SOIL								
VEGETATION								
OTHER		_						
III. FIELD MEAS	UREMENTS TA	KEN						
01 TYPE HNU		02 COMMENTS HNU meter read	dings were	e taken during the site in	spections and all	. readings		
		were less than	1 ppm.					
								
IV. PHOTOGRAPHS	AND MAPS	<u> </u>		_				
01 TYPE X GROUN	D _ AERIA	L	02 IN CU	STODY OF New York Sta	te Department of (Name of organization	Environmental Conservation or individual		
03 MAPS X YES NO	04 LOCATIO		ork State	e Department of Environmen	tal Conservation.	Albany. New York		
NO Sri Maddineni, New York State Department of Environmental Conservation, Albany, New York V. OTHER FIELD DATA COLLECTED (Provide narrative description)								
VI OTHER VILLE	DAIN GOLERO							
 No other field d	ata were co	llected for thi	s PSA Tas	sk 1.				
VI. SOURCES OF	INFORMATION	(Cite specific refer	ences, e.g.,	atate files, sample analysis, reports				
Preliminary Site	Preliminary Site Assessment Report, March 1991, E.C. Jordan Co., and references cited therein.							
1								

EPA FORM 2070-13 (7-81)

Ş EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I.IDENTIFICATION 01 STATE 01 SITE NUMBER

PAR	ER INFORMATION	New York D980509459				
II. CURRENT CAMER(S)		PARENT COMPANY (If applicable)				
01 NAME Kach's Scrap Co. c/o Adolf Kac	hinoski	02 D+B NUMBER	08 NAME			09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD # 4737 Chester Avenue	, etc.)	04 SIC CODE	10 STREET ADDRE	\$\$ (P.O. Box, RFD #	, etc.)	11 SIC CODE
05 CITY Niagara Falls	06 STATE New York	07 ZIP CODE 14305	12 CITY		13 STATE	14 ZIP CODE
01 NAME Mr. Ryding		02 D+B NUMBER	08 NAME			09 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD # James Ave and Witmer	, etc.)	04 SIC CODE	10 STREET ADDRE	\$\$ (P.O. Box, RFD #	, etc.]	11 SIC CODE
05 CITY Niagara Falls	06 STATE New York	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME Mr. Burtwell		OZ D+B NUMBER	08 NAME			09 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD # Delaware and Witmer	, etc.]	04 SIC CODE	10 STREET ADDRE	SS (P.O. Box, RFD #	, etc.)	11 SIC CODE
05 CITY Niagara Falls	06 STATE New York	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME Mr. Garlock		02 D+8 NUMBER	08 NAME			09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD # Maryland Avenue	, etc.)	04 SIC CODE	10 STREET ADDRE	SS (P.O. Box, RFD #	, etc.)	11 SIC CODE
05 CITY Niagara Falls	06 STATE New York	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (List mos	t recent first)		IV. REALTY OWN	IER(S) (If applicable)	list most rec	ent first)
O1 NAME		02 D+B NUMBER	01 NAME			02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #	, etc.)	04 SIC CODE	03 STREET ADDRE	SS (P.O. Box, RFD #	, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME	_		OZ D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #	', etc.)	04 SIC CODE	D3 STREET ADDRE	SS (P.O. Box, RFD #	, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
O1 NAME		02 D+B NUMBER	01 NAME			02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #	', etc.)	04 SIC CODE	03 STREET ADDRE	SS (P.O. Box, RFD #	, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION (Cite	specific refer	ences, e.g., state files, sem	ple snelyeis, reports)			

Preliminary Site Assessment Report, March 1991, E.C. Jordan Co., and references cited therein.

POTENTIAL HAZARDOUS WASTE SITE					1.IDENTIFICATION				
Ş EPA	SIT	E INSPEC	CTION REPORT		01 STATE		'E NUMBER		
PART 8 - OPERATOR INFORMATION			New York D980509459			9459			
II. CURRENT OPERATOR (Provide if different from owner)				OPERATOR'S PARE	OPERATOR'S PARENT COMPANY (If applicable)				
01 NAME 02			02 D+B NUMBER	10 NAME	10 NAME				
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	12 STREET ADDRE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)				
05 CITY		06 STATE	07 ZIP CODE	14 CITY 15 STATE			16 ZIP CODE		
08 YEARS OF OPERATION	09 N	AME OF OWNE	ER						
III. PREVIOUS OPERATO different from owner)	R(S) (List	most recent f	irst; provide only if	PREVIOUS OPERAT	OR'S PARENT COM	PANIES (If as	pplicable)		
01 NAME			02 D+B NUMBER	10 NAME			11 D+B NUMBER		
03 STREET ADDRESS (P.O.	Box, RFD #	!, etc.)	04 SIC CODE	12 STREET ADDRE	SS (P.O. Box, RFD #	, etc.)	13 SIC CODE		
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE		
08 YEARS OF OPERATION	09 NA	ME OF OWNE	R		_				
01 NAME 02 D+B NUMBER			02 D+B NUMBER	10 NAME		11 D+B NUMBER			
03 STREET ADDRESS (P.O.	Box, RFD #	', etc.)	04 SIC CODE	12 STREET ADDRE	, etc.)	13 SIC CODE			
05 CITY		06 STATE	07 ZIP CODE	14 CITY	<u> </u>	15 STATE	16 ZIP CODE		
08 YEARS OF OPERATION	09 NA	ME OF OWNE	R						
01 NAME			02 D+B NUMBER	10 NAME			11 D+B NUMBER		
03 STREET ADDRESS (P.O.	ADDRESS (P.O. Box, RFD #, etc.) 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	16 ZIP COOE		
08 YEARS OF OPERATION	09 NA	ME OF OWNE	R			•			
IV. SOURCES OF INFORM	ATION (Ci	te specific refe	erences, e.g., state files, se	mple analysis, reports)					
	_								
Preliminary Site Asses	sment Re	port, March	1 1991, E.C. Jordan	Co., and reference	es cited therein	•			

POTENTIAL HAZARDOUS WASTE SITE 1. IDENTIFICATION

			-				
Ş EPA	SITE INSPEC	E INSPECTION REPORT			01 \$11	E NUMBER	
•	PART 9 - GENERATOR/TI	RANSPORTER INFO	RMATION	New York D9805		09459	
II. ON-SITE GENE	RATOR	<u>,</u>					
01 NAME	_	02 D+B NUMBER		stes are genera been used for es.			
03 STREET ADDRESS	(P.O. Box, RFD #, etc.)	04 SIC CODE					
05 CITY	06 STATE	07 ZIP CODE					
III. OFF-SITE GE	NERATOR(s)						
01 NAME		02 D+B NUMBER	01 NAME			02 D+B NUMBER	
03 STREET ADDRESS	(P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRE	SS (P.O. Box, RFD &	, etc.)	04 SIC CODE	
OS CITY	06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER	01 NAME			02 D+B NUMBER	
03 STREET ADDRESS	(P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRE	SS (P.O. Box, RFD A	, etc.)	04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE	
IV. TRANSPORTER(s)						
01 NAME		02 D+B NUMBER	01 NAME			02 D+B NUMBER	
03 STREET ADDRESS	(P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRE	SS (P.O. Box, RFD 4	!, etc.)	04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER	01 NAME			02 D+B NUMBER	
03 STREET ADDRESS	(P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRE	SS (P.O. Box, RFD a	, etc.]	04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE	
IV. SOURCES OF I	NFORMATION (Cite specific refe	l brences, e.g., stata files.		-			

Preliminary Site Assessment Report, March 1991, E.C. Jordan Co., and references cited therein.

		POTENTIAL HAZARDOUS WAST	TE SITE	I.IDENTIFICATION	
€	Æ	PA SITE INSPECTION REPOR	T	01 STATE	01 SITE NUMBER
`		PART 10 - PAST RESPONSE ACTIVI	TIES	New York	D980509459
11.	PAS	T RESPONSE ACTIVITIES			
	01	A. WATER SUPPLY CLOSED DESCRIPTION	02 DATE	03 AGENCY	
		DESCRIPTION			
N/A		B. TEMPORARY WATER SUPPLY PROVIDED	02 DATE	03 AGENCY	
		DESCRIPTION			
N/A					
		C. PERMANENT WATER SUPPLY PROVIDED DESCRIPTION	02 DATE	03 AGENCY	
N/A		2200.11 , 10.1			
N/A		_ D. SPILLED MATERIAL REMOVED	02 DATE	03 AGENCY	
	04	DESCRIPTION			
N/A					
	01 04	E. CONTAMINATED SOIL REMOVED DESCRIPTION	02 DATE	03 AGENCY	_
N/A					
	01	F. WASTE REPACKAGED	02 DATE	03 AGENCY	
	-	DESCRIPTION			
N/A		G. WASTE DISPOSED ELSEWHERE	02 DATE	UZ VCENCA	
	04	DESCRIPTION	<u> </u>	03 AGENC!	
N/A					
	01 04	H. ON SITE BURIAL DESCRIPTION	02 DATE	O3 AGENCY	
N/A		PEGORII I I ON			
N/A	01	_ I. IN SITU CHEMICAL TREATMENT	02 DATE	03 AGENCY	
	04	DESCRIPTION			
N/A					
	01 04	J. IN SITU BIOLOGICAL TREATMENT DESCRIPTION	02 DATE	O3 AGENCY	
N/A		•			
	01	_ K. IN SITU PHYSICAL TREATMENT	02 DATE	03 AGENCY	
		DESCRIPTION			
N/A		- FHOLOGUE ATTOM	03 DATE	07 405404	
	04	L. ENCAPSULATION DESCRIPTION	02 DATE	US AGENET	
N/A					
	01	M. EMERGENCY WASTE TREATMENT DESCRIPTION	02 DATE	03 AGENCY	
N/A		DESCRIPTION			
N/A	01	N. CUTOFF WALLS	02 DATE	03 AGENCY	
	04	DESCRIPTION			
N/A					
	01 04	O. EMERGENCY DIKING/SURFACE WATER DIVERSION DESCRIPTION	02 DATE	03 AGENCY	
N/A					
		P. CUTOFF TRENCHES/SUMP DESCRIPTION	02 DATE	03 AGENCY	
		DESCRIPTION			
N/A		o cincincaco curare una	03 8475	07 40FN04	
1	U1 04	Q. SÜBSURFACE CUTOFF WALL DESCRIPTION	UZ DATE	O3 AGENCY	
N/4					

EPA FORM 2070-13 (7-81)

_	_	_	POTENTIAL HAZARDO		I.IDENTIFICATION	
Ü	, E	PA	SITE INSPECTIO	TE INSPECTION REPORT		01 SITE NUMBER
			PART 10 - PAST RESPO	NSE ACTIVITIES	New York	D980509459
11.	PAS	ST RESPONS	E ACTIVITIES (Continued)	<u> </u>	_	
	01	R. BAR DESCRIPT	RRIER WALLS CONSTRUCTED	02 DATE	03 AGENCY	
l		DESCRIPT	ION			
N/A						
	04	DESCRIPT	PPING/COVERING TION	02 DATE	03 AGENCY	
N/A						
	01	_ T. BUL	K TANKAGE REPAIRED	02 DATE	03 AGENCY	
		DESCRIPT	TON			
N/A						
	01 04	U. GRO DESCRIPT	OUT CURTAIN CONSTRUCTED	02 DATE	03 AGENCY	
N/A						
,		V. BOT	TOM SEALED	02 DATE	03 AGENCY	
	04	DESCRIPT	TOM SEALED			
N/A						
	01 04	W. GAS DESCRIPT	CONTROL	02 DATE	03 AGENCY	
N/A	•	DEGUNTA	101			
	01	V 610	RE CONTROL		03 ACENCY	
	04	DESCRIPT	ION	UZ DATE	US AGENCI	
N/A						
	01	Y. LEA	CHATE TREATMENT	02 DATE	03 AGENCY	
ļ		DESCRIPT	ION			
N/A						
	01 04	Z. ARE DESCRIPT	A EVACUATED	02 DATE	03 AGENCY	
N/A						
	01	_ 1. ACC	ESS TO SITE RESTRICTED	02 DATE	03 AGENCY	
	04	DESCRIPT	TON			
N/A						
	01 04	2. POP DESCRIPT	PULATION RELOCATED	02 DATE	03 AGENCY	
N/A						
	01		SER REMEDIAL ACTIVITIES	02 DATE	03 AGENCY	
	04	DESCRIPT	TION			
Burr	ing	of garbag	e no longer being practiced.	Pits are closed and filled with	h earth and scrap.	
IV.	SOL	JRCES OF 1	INFORMATION (Cita specific references	, e.g., state files, sample enelysis, reports)		
				-		
Prel	imin	nary Site	Assessment Report, March 1991	, E.C. Jordan Co., and reference	es cited therein.	

Ω		1
\$	EF	- 4

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I.IDENTIFICATION

01 STATE New York 01 SITE NUMBER D980509459

PART 11 - ENFORCEMENT INFORMATION

11. ENFORCEMENT INFORMATION

01	PAST	REGULATORY/ENFORCEMENT	ACTION	X YES	_ NO

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

Phase I Study by Engineering-Science, January 1986, Phase I study by NUS Corporation for USEPA, July 21, 1987.

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

Preliminary Site Assessment Report, March 1991, E.C. Jordan Co., and references cited therein.

APPENDIX C AERIAL PHOTOGRAPHS









APPENDIX D NUS CORPORATION SOIL SAMPLE RESULTS

ANALYTICAL DATA NAME: WITMER ROAD

SAMPLING DATE: JULY 21, 1987

CASE NUMBER: 7667

VOLATILES

		l		:	.:	1
SAMPLE NUMBER TRAFFIC REPORT MIMBER MATRIX UNITS	SOIL	BK-796 SOIL	! BK-799 ! SOIL	NYU7-54 BK-800 SOIL US/K6	NYU7-BLK1 BK-904 WATER UG/L	INYU7-RINI I BK-905 I WATER I UG/L
Chloromethane	i 	 	 		:	
Bromomethane	1	, }	I	I		1
Vinyi Chloride	i	I	1	I	i i	· i
Chloroethane	I	I	, I	!	i	I
Methylene Chloride		I Q	. Q	I	I Q	I D
Acetone	1 0	ı G	เนิ	' 		. <u>-</u>
Carbon Disulfide				· I	1	
1.1-Dichloroethene	1	, 	•	' !	I	I
1.1-Dichloroethane	1	1 1		' 		;
Trans-1,2-Dicnicroethene) 	i I	ı I	l l	1
Chieroform	1) !	í I	i I	1 15	1 13
uniorotora 1.2-Dichlorostname	1	1	1	í I	1 13	1 13
	1	! !	1	l I	i 52	I 91
2-Eutanone	1	1		[1	1 342	; 71 ;
1.1,1-Trichloroethane	1			l 1	!	l 1
Carbon Tetrachloride	1			1	1	(1
Vinyl Acetate	1	l -		l	!	1
Promodichicromethane	1	l		l	<u> </u>	1
1.2-Dichloroprosane	1	<u>l</u>)	1	
Trans-1,3-Dichleropropene	1	i		l		!
Trichloroethere	1	 		i		!
Dibromochloromethane	1 '	l		<u> </u>	!	
1,1,2-Trichlorostname		l		l	!	!
Benzene		!		İ		i -
Cis-1,3-Dichloropropene	1	l	1		!	1
2-Chloroethylvinylether	1	1	l	l	1	1
Eromoform	1	i	1	l	ı	!
2-Hexarione	1	i	l	l	1	!
i-Methyl-2-Pentanone	1	l	i	i	i	
Tetrachioroetheme	1	ł	l	i	Į.	l
1,1.2.2-Tetrachiproethame	1	1	i	l	1	
Toluene	i	l G]	1 8	1 10
Chlorocenzene	1	l	1	l	1	ł
Ethylbenzene		l 14		i	l	ľ
Styrene	i	I	l	ļ	l	i
Total Xylenes	i	1 89	1 5 J	!	I	i

- NOTES TO ORGANICS DATA:

Blank space - compound analyzed for but not detected

- Q analysis did not pass EPA QA/QC requirements
- J cossound present below contract-specifies detection limits, but above instrument detection limit
- B compound found in laboratory blank as well as the sample, and indicates possible/probable blank contamination
- E estimated value due to the presence of interference

ANALYTICAL DATA NAME: WITHER ROAD

SAMPLING DATE: JULY 21, 1987

CASE NUMBER: 7667

SEMI-VOLATILES

	·——	·	l	l	. !	ſ
SAMPLE NUMBER	NYU7-S1		1 NYU7-83		INYU7-BLK1	
TRAFFIC FEFORT NUMBER				BK-800		BK-905
MATRIX	! SJIL		I SOIL	SOIL	WATER	WATER
UNITS	t US/KG	l UG/K6	I U6/KG :	UG/K6	l UG/L	UG/L
Phenol	ļ		! !			:
Bis(2-Chloroethyl)Ether	l	l	i	l	1	I
2-Chiorosmenol	1	l	}	l	1	l
1.3-Dichlorobenzene	1	I	!	l	1	l
1.4-Dichierobenzene	1	l	l	l	1	l
Benzyl Alcohol	i .	1	1	i	1	l
1,2-Dicalorobenzeme	1	i	ì	l	1	l
2-Methylchenol	1	l	Ī	i	1	[
Bis(2-ChloroisopropyllEther	1	ì	l	l	1	i
4-Methylphenol	1	i	1	l	1	i
N-Nitross-Di-m-Propylamine	Į.	í	l	l	Į.	Ī
Hexachloroethane	i	1	1	l	1	l
Nitropenzene	ļ	l	I	l	1	l
iscahorone	1	i	1	!		l .
2-Nitrophenol	I	l	ł	ļ	1	l
2,4-Dimathylphenol	1	l	l	i	1	ľ
Benzoic Acid	1	i	i	!	1	ļ
Bis(2-Chioroethoxy) Methane		1	1	Į	1	1
2.4-Dichlorophenol	1	ł	1	l	1	!
1.2.4-Trichloropenze n e	1	l	1	l	1	l
Nachthalene	1	1	1 350 j	ł	1	i
4-Chlorcaniline	i	l	!	i	1	l
Hexacnicrobutadiene	1	l	l	i	1	[
4-Chloro-3-Methyl pheno l		l	ŀ	i	i	j
2-Methylmachthalene	ì	i	1 490	l	1	i
Hexachlorocyclopentadiene	1	l	ł I	l	1	ļ
2,4,6-Trichloroph eno l	1	I	į.	l	1	ŀ
2,4,5-Trichlorophenol	1	ł	ļ	l	i	}
2-Chloromaphthalene	i		•	l	1	Ĭ
2-Nitroaniline	l .	l	[1	i
Dimethyl Phthalate	1	l	810	l	i	i
Acenachtnylene					1	l

ANALYTICAL DATA NAME: WITHER ROAD

SAMPLING DATE: JULY 21, 1987

CASE NUMBER: 7667

SEMI-VOLATILES

		.1	:	i		i I
SAMPLE NUMBER TRAFFIC REPORT NUMBER MATRIX UNITS	NYU7-S1 BK-797 SOIL UG/KG	NYU7-52 BK-798 SOIL UG/KG		NYU7-54 BK-800 SOIL US/KG		INYU7-RIN1 BK-905 WATER UB/L
3-Nitroaniline	i	-} 		i I	·1]
Acenaphthene	I	i I	I	1	i i	1 1
2,4-Dinitrochenol	1	i .	I	i		I I
4-Nitropnenol	1	i	[1	ĺ	1
Dibenzofuran	I	i	I	I	1	1
2.4-Dinitrotoluene		1	I	i	ŧ	1 1
2.6-Dinitrotoluene		İ	I	!	i	1 1
Diethylphthalate	l	1		· !	1	I I
4-Chlorophenylphenyl ether	}	1	l	1	i	
Fluorene	1	i	I	1	i	1
4-Nitroaniline	I	1	I	- 	i	1 1
4.6-Dinitro-2-Methylphenol	I	i	!	I	(1
N-Nitrosodiphenylamine	I	i	[i I	
4-Bromophenylphenyl ether	I	1	1	[1	i t
Hexachlorobenzene	I	1	I		i	
Pentachlorophenol	!	i	l	I	i	1 1
Phenanthrene	400 J	1	1 380	1 1100	İ	j i
Anthracene	100 JX	1	190 J	i 280 JX	1	<u>;</u>
Di-n-Butylohthalate	l Q	1	l Q	ı Q	1	1 1
Fluoranthene	1 430 J	1	1600	2200	í	<u>!</u>
Fyrrene	1 440	1	i 1500	I	!	
Butylbenzylchthalate	008 I	i	8700	960	1	1
3.31 -Dichleropenzidine	1	1	1	ł		1
Fenzo(a)Anthracene	1 260 J	1	780	1 1600	i	! 1
Bis(2-Ethylhexyl)Phthalate	1500	1	5900	1100	1	} I
Chrysene	350 J	1	1 2500	1800	i	: 1
Di-n-Octyl Phthalate	1	1	i	i	1	
Benzo(b)Fiuoranthene	1 330 JX	1	1 1100 X	4000	1	1 1
Benzo(k)Fluoranthene	1 330 JX	1	1500 X	1	1	1 1
Benzo (a) Pyrene	1 320 J	i	i 920	2000	1	1 1
Indemo(1,2.3-od)Pyrene	1	i	I 810	1400	!	1
Dibenzo(a,h)Anthracene	ì	1	l	ì	I	1
Benzo(ghi)Perylene	i	1	1 1100	1 1100	1	1

NOTES TO GREANICS DATA:

Blank space - compound analyzed for but not detected

- Q analysis did not pass EPA QA/QC requirements
- J compound present below contract-specified detection limits, but above instrument detection limit
- 5 compound found in laboratory blank as well as the sample, and indicates possible/probable blank contamination
- E estimated value due to the presence of interference
- Na analysis not required

ANALYTICAL DATA
NAME: WITMER ROAD

SAMPLING DATE: JULY 21, 1987

CASE NUMBER: 7667

PESTICIDES/PC3s

				·——	i ————	· i	ii
SAMPLE NUMBER TRAFFIC REPORT NUMBER		NYU7-51 BK-797	1 NYU7-52 1 BK-798		NYU7-54 BK-800		INYU7-RIN1: EK-905
MATRIX	- 1	SSIL	I SOIL	SOIL	SOIL	I WATER	i WATER I
LINITS	. !	UG/KG	I UG/KG	I UG/KG	i UG/KG	I UG/L	i UG/L !
Alpha-BHC		-	1	[! ————— !		i t
Beta-BHC	1		1	I 95	l	1	i i
➡ Delta-BHC	- 1		i	i	1		
Gamma-BHC (Lindame)	ŀ		1	i		1	1
heptachlor			i	l		1	! !
Alorin	-		I	ì	I	1	1
Hentachlor Epoxide	1		i	i	I 27	I	
Engosulfan I	1		t	1	l	i	1
Dieldrin	1		I	ì	1 31 J	1	1
4,47-DDE	1		!		l	1	i i
Endrin	l		}		1	1	! :
Endosulfan II	- 1		!	!	ľ	I	1
 4. 4' -DDD	ŀ		i	l .	l	i	1
Endosulfan sulfate	}		!	1	ŀ	1	I
4, 4' -DDT	1				1	i	l l
Methoxychlor	1		1			I	i 1
Endrin Ketone	- 1		l i	i I	1	1	1
Chlordane	-		l I	1		1	
Toxaphene	- 1		t	!		i	i 1
Arccior-1016	ŀ		1	!		Į.	i 1
Aroclor—1221	i		į .	[l	1	
Aroclor—1233	1		1	i		1	l I
Arcolor-1242	1		i i			1	1
Aroclor-1248	1		!	!	i	1	1
Aroclor-1254	1		1	i		i	1
₩Arcclor-1250	1	320 J	1	009	i		i i

NOTES TO DESANICS DATA:

- Elank space compound analyzed for but not detected
 - Q analysis did not pass EPA QA/QC requirements
 - J compound present below contract-specified detection limits, but above instrument detection limit
 - 8 compound found in laboratory blank as well as the sample, and indicates possible/probable blank contamination
 - E estimated value due to the presence of interference
 - NR analysis not required

ANALYTICAL DATA

NAME: WITMER ROAD SITE SAMPLING DATE: 7/21/87

CASE: 7667

Ĭ	N	a	R	G	Δ	N	Ť	C	5
		v	$\overline{}$	u	т	17	•	•	u

THOROMITOO		1	ı	1	1	1
SAMPLE NUMBER TRAFFIC REPORT NUMBER MATRIX UNITS	NYU7-S1 MBK690 SOIL mg/kg	NYU7-S2 MBK691 SOIL mg/kg	NYU7-S3 MBK692 SOIL mg/kg	NYU7-S4 MBK693 SOIL mg/kg	NYU7-RIN1 MBK697 WATER	NYU7-BLK1 N/A N/A N/A
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	5860E 21E Q 135 J Q 66700E 48 J	7860E 25E Q 251 J 7.9E 62300E 92 J	7470E 21E 212 J Q 78700E 211	14500E 14E 451 J Q 119000E 393 J	J	NR NR NR NR NR NR NR NR
Copper	49	119	103	332	! J	NR
Iron	34800E	72400E	33000E	24900E	102	NR
Lead	162	337	320	577	1	NR
Magnesium	78200	57200	83500	30300	1	NR.
Manganese	640	815	822	50 5	J	¦ NR
Mercury			0.1E	20E		NR
Nickel ·	¦ Q	Q	Q	ଭ		NR NR
Potassium	1010	1180	1190	; J		NR
Selenium		į			į	NR
Silver		_	_	_		NR.
Sodium	J	J	J	J	ļ	NR NR
Thallium					1	, NP
Vanadium	17	33	27	30		NP
Zinc	268E	1050E	899E	¦ 711E	58	หล

NOTES:

Blank space - compound analyzed for but not detected

Q - analysis did not pass QA/QC requirements

J - compound present below contract-specified detection limits, but above instrument detection limits

E - value estimated due to laboratory interference

B - compound found in laboratory blank as well as the sample, indicates possible/probable blank contamination

NR - analysis not required

Excerpts from the 1982 U.S.G.S. Report entitled "Draft Report of Preliminary Evaluation of Chemical Migration to the Niagara River from Hazardous Waste Disposal Sites in Erie and Niagara Counties".

(0000,1100

Table .--Analyses of substrate simples from Mitter Read, site On, Mingarn Falls, N.Y. (Locations shown in fig. ... Concentrations are in wg/Kz; dashes indicate that constituent or compound was not found. LT indicates it was found but below the quantifiable detection limit.)

, Sam	nle number and depth be	low land surface (ft)
First sampling (05-29-92)	ı	2 6.5
Inorganic constituents		
Copper	2,000	28, nna‡
Iron	1,200,000	1,400,000
Mercury		
· ·	Sample	aumber
Second sampling (05-25-83)	TA TA	
Inorganic constituent		
Molecular sulfur		450
Orranic compounds	•	
Priority pollurants	•	
Benzene	***	3.8
1,1,1-Trichloroethane	22.9**	
Trichlornethene	i.T	
Fluorantheme	7.T*	
Naphthalene	17*	·
Bis(2-ethylbex1)phthalate	*1 04**	
Pyrene	1.7 *	
Nonpriority pollutents	•	
Carbondisulfide		39.4
Di benzafuran	ኒ ፓ*	
2-Methylnaphtlalene	E TA	
2-Octadecanoli	···	~ 690 *
2-Methyl(s)-1-dodecapol ¹		1,200*
Unknown hydrocarboas!	16,750*	4,160*

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

f Exceeds concentrations in samples taken from undistrubed soils in the Niagata Falls area.

^{*} Holding time exceeded before GC/MC acid— and base-nourrel extractable compounds were extracted.

^{**} Sarrigate receiveries were above or below the acceptance limit .

1983)

#932027

90. WITMER ROAD SITE

REF-15

General information and chemical-migration potential

The Witmer Road site is located in the town of Magaza and is shown on place 3.

The site contains an unknown quantity of incinerator residue from open burning. The site is presently occupied by a scrapyard.

The potential for contaminant migration is probably minimal, but additional field work and sampling would be needed to confirm this.

Geologic Information

The U.S. Geological Survey drilled two test borings on the site in 1981; the locations are shown in fig. ____. The geologic logs are as follows:

Porehole No.	Depth (fi)	Description
1 ;	0 - 6.5	Black topsoil, reddish, sand clay at bettom.
•		NOTE: Tried split spoon with
		hydraulic, got in about 1 ft.
•	4.5 - 7.3	Clay, sandy, reddish.
	7.0 - 8.7	Split spoon - sand, red, some yellow particles, ushes.
	8.7 - 9.0	Split spoonSand, red, some vellow particles, askes bit ex at 9.0 ft.
		SAMPLE: 7.0 ft.
2	0 - 4.0	Topsoil.
- -	4.0 - 7.5	Limestone (dolomite), light gray, mealy ash
	7.5 - 10.0	Sand, reddish, clayey. SAMFLE: 6.5 ft.

Hydrologic information

No ground water was encountered: It is probably confined to the fractured hadrock.

Chemical information

Two soil samples were collected and analyzed for copper, iron, mercury, and organic compound. The results are given in table ____. The concentration of copper in sample 2 exceeded concentrations from undisturbed sites not effected by waste-disposal practices. There were seven organic priority pollutants found, most at concentrations below 25 ug/Kg. There were five organic nonpriority pollutants and some unknown hydrocarbons found.

