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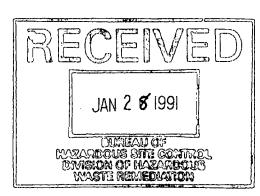
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# ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

#### PRELIMINARY SITE ASSESSMENT

Carborundum Corporation Niagara Falls Site No. 932048B 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

**JANUARY 1991** 

#### NYSDEC CONTRACT NO. D002472 NYSDEC WORK ASSIGNMENT NO. D002472-6

E.C. JORDAN CO.

#### FINAL REPORT

TASK 1: DATA RECORDS SEARCH AND ASSESSMENT PRELIMINARY SITE ASSESSMENT

> CARBORUNDUM BUILDING 82 SITE NO. 932048B NIAGARA COUNTY

> > JANUARY 1991

Submitted by:

Elizabeth A. Ryan Project Manager

E.C. Jordan Co.

Approved by:

William J. Weber NSSC Program Manager

E.C. Jordan Co.

#### NOTICE

This Preliminary Site Assessment report about the Carborundum Building 82 Site (Site No. 932048B), in Niagara Falls, New York, was prepared expressly for the New York State Department of Environmental Conservation (NYSDEC) under the Superfund Standby Contract (No. D002472, Work Assignment No. D002472-6). The purpose of this report is to provide information necessary for NYSDEC to reclassify the site according to the Classes 2, 3, and Delist categories described in Section 2.0 of this report. conclusions and recommendations in this report represent E.C. Jordan's professional judgment and opinion based on present, generally accepted engineering practices for conducting preliminary site characterizations and assessments. Conclusions in this report are based on records reviews, interviews, and site walkovers performed by Jordan personnel. The health-based regulatory standards discussed in this report may change in the future. Levels of environmental contamination that are "acceptable" by current standards may not be so in the future.

Information contained in this report may not be suitable for any other use without adaptation for the specific purpose intended. Any such reuse of or reliance on the information, assessments, or conclusions in this report without adaptation will be at the sole risk and liability of the party undertaking the reuse.

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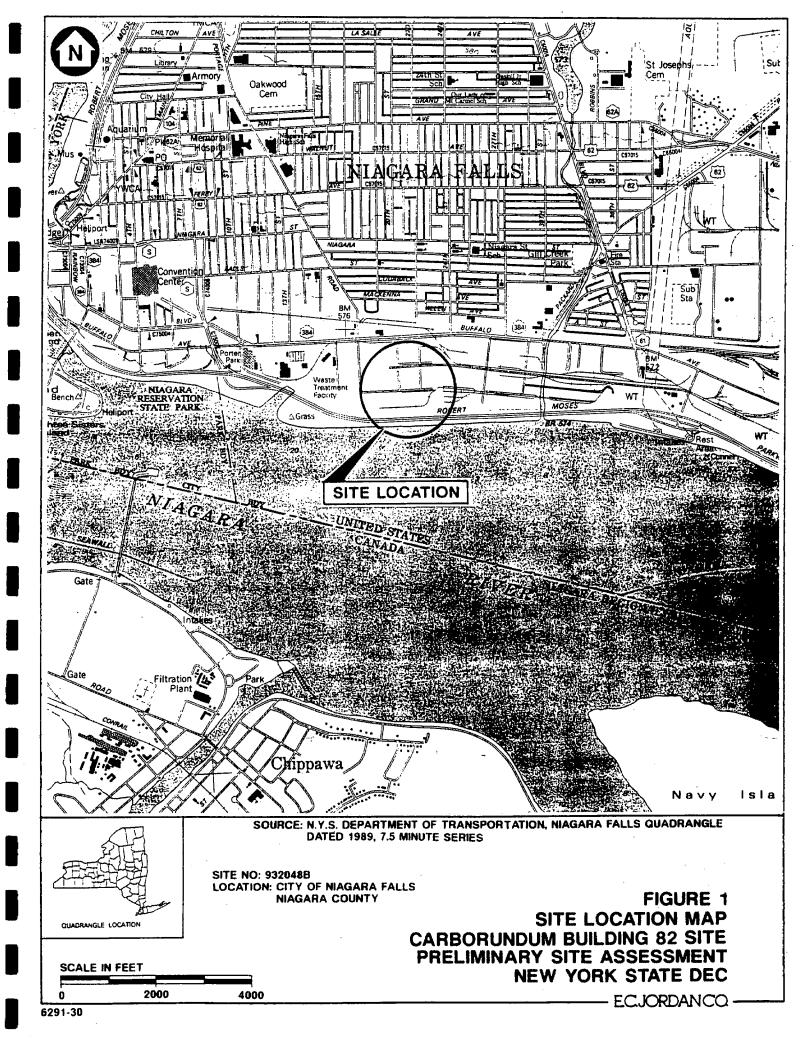
#### 1.0 EXECUTIVE SUMMARY

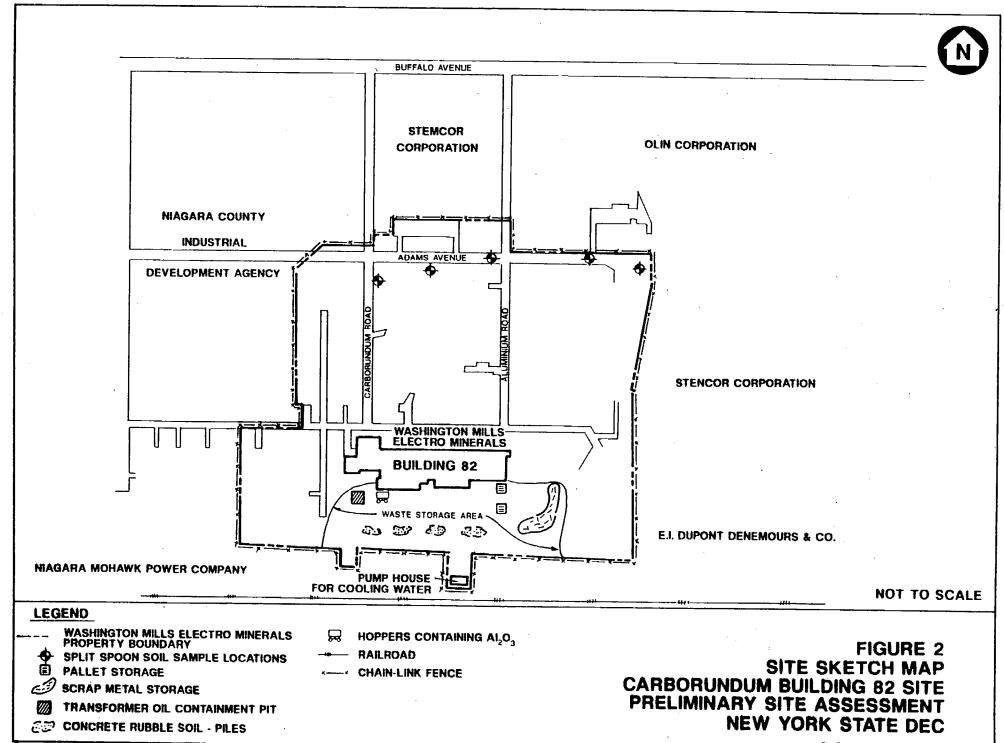
The Carborundum Building 82 (Carborundum) Site is a 1.5-acre storage area located on a 40-acre parcel of land owned by Washington Mills Electro Minerals Corporation. The property is located between Buffalo Avenue and the Robert Moses Parkway and the waste storage area is located south of Building 82 (see Figures 1 and 2). The 1.5-acre storage area was used for an unknown period of time to temporarily store wastes such as sand, refractory brick, dust collector fines, grinding wheels, fly ash, wood, metal scrap, silicon carbide fines, aluminum-silica shot, and kiln furniture made of ceramic materials. The practice of storing waste on this site was discontinued in 1979 and in 1985 all waste materials were removed by Modern Disposal Services, Inc.

The information collected and reviewed by Jordan revealed the following:

- There is no evidence or documentation of hazardous waste disposal on-site.
- The wastes stored on-site are not defined as hazardous according to 6 NYCRR 371.1(d).
- There is no evidence of any landfilling activity.
- PCBs were detected at levels of 0.0012 ppm and 0.55 ppm in the transformer oil containment pit. These levels are well below the NYSDEC maximum allowable concentration for non-hazardous waste of 50 ppm PCBs (6 NYCRR 371.4(d)(6)(e).
- The solvents used on-site to rinse abrasive grains (e.g., methanol, acetone, and toluene), have reportedly had no contact with wastes previously stored on the site.
- The site is located downstream from public drinking water intakes on the Niagara River.
- The site is secured by a chain-link fence and guarded.
- The nearest wetlands and drinking water wells are approximately 3 miles away.

Based on these findings, it is E.C. Jordan Co.'s (Jordan) recommendation that the Carborundum Site be delisted from the suspected inactive hazardous waste registry.





8129-20

ECJORDANCO.

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

Original—BHSC Copy—REGION Copy—DEE Copy—DOH Copy—PREPARER

# ADDITIONS/CHANGES TO REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES

1. SITE NAME		2. SITE NO	0.	3. TOWN		4. COUNTY
Carboruno	dum Building 82	932048	-	1	iagara Falls	
5. REGION	6. CLASSIFICATION	· ·	7. ACTIVITY	<u> </u>		1
9	Current/Proposed	<u>X</u>	☐ Add	Reclassify	Delist	Modify
8a. DESCRIBE	LOCATION OF SITE (Altach U.S	S.G.S. Topogi	raphic Map	showing site local	tion).	
			ling 82	on Washing	gton Mills E	Electro Minerals property
located a	at 1801 Buffalo Av	enue.				
	Niagara Falls					
h Ouadrand		14 1 1	43°051	02 <sup>11</sup> Longitude	79002114"	
	SCRIBE THE SITE (Attach site					d. Tax Map Number
	Some The Sire (Attach Site	Pign Snowing	) disposaiis	ampling locations)	,	
						tly used to store scrap
metal, wo	ood pallets, rubble	e, and r	recycla	ble aluminu	ım oxide sho	et.
					•	
b. Area	1 00000		. no4:	2513754		<b>36%</b>
					d. PA/SI	Yes No
e. Complete			PSA	Sampling		
IV. BRIEFLY US	ST THE TYPE AND QUANTITY C	OF THE HAZA	ARDOUS WA	ASTE AND THE DA	ATES THAT IT WAS	DISPOSED OF AT THIS SITE
No hazard	lous waste was docu	umented	as bein	ng disposed	l of at this	site.
11a SUMMARIZ	ED SAMPLING DATA ATTACHE					
□Air		rface Water	□se	oil Waste	в ПЕР Тох	TCLP.
-		Hace Water	_ 50	M Waste	J CP TOX	LITCLP.
b. List contr	ravened parameters and values					
		_				
No sampli	ing was performed i	for this	Preli	minary Site	Assessment	Task 1.
· · · · · · · · · · · · · · · · · · ·						
12. SITE IMPACT						
a. Nearest surfa	ce water: Distance 650	_ft. D	irection	South	Cia	ssification
b. Nearest groun	dwater: Depth9ft.	Flow D	irection	South	_ Sole So	urce Primary Principal
c. Nearest water	supply: Distance 2 mi. 3	#K Dire	ection	East		7500 C
	ing: Distance 30 ft.		Mond			•
e. Crops or livest		Directio 死	n			se
		ΩKNo 3		J. Within a Si	tate Economic Deve	elopment Zone? Yes No
f. Exposed hazar		Š. Š.		k. For Class	2a; Code	Health Model Score
g. Controlled site	access? XX Yes  N	0		I. For Class 2	2; Priority Category	
h. Documented fi	ish or wildlife mortality?	Yes 🔯	No	m. HRS Scor	e	
I. impact on spec	cial status fish of wildlife resou	rce?	Yes XX	No n. Significant	t Threat Yes	Unknown
13. SITE OWNER			DDRESS	1801 Buffal	o Ave.	15. TELEPHONE NUMBER
	tro Minerals Corp.	Niag	ara Fal	lls, New Yo	ork 14302	(716) 278-6763
16. PREPARER						
Roger	Bondeson			Env	ironmental	Scientist/E.C. Jordan Co.
	Name					Organization
***************************************	<u> </u>	11/28		<u> </u>	eth han in	
Teleph	none Number		Date			Signature

#### 2.0 PURPOSE

The purpose of a PSA is to provide the information necessary for NYSDEC to reclassify the 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.

Task 1, Data Records Search and Assessment, of a Preliminary Site Assessment (PSA) was conducted at the Carborundum Site, Site No. 932048B, in Niagara Falls, New York by Jordan under the NYSDEC Superfund Standby Contract (Contract No. D002472, Work Assignment No. D002472-6).

The Carborundum 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 Carborundum Site under these tasks are described in the following subsections.

#### 3.1 File Reviews

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

On July 16, 1990 the Jordan team reviewed files, provided by Yavuz Erk, P.E., Environmental Engineer II for NYSDEC Region 9 at NYSDEC's Region 9 Office. Jordan personnel reviewed files at the NYSDOH Regional Office in Buffalo, New York on July 17, 1990 and at the Niagara County Health Department (NCHD) on July 20, 1990. Jordan personnel visited the Niagara County Soil and Water Conservation District on July 24, 1990 to obtain copies of aerial photographs of the site; and on July 25, 1990, the Jordan team visited the NYSDEC Region 9 Bureau of Wildlife to identify wetlands and critical habitat areas.

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

Yavuz Erk Environmental Engineer II NYSDEC Region 9 600 Buffalo, NY 14414 (716) 847-4585

#### 3.2 Site Walkover

On July 25, 1990 a site walkover was conducted at the Carborundum Site. The following individuals attended the visit:

Environmental Scientist
Environmental Scientist
Environmental Engineer II
Environmental Engineer II
Environmental Health and
Safety Manager

E.C. Jordan Co. E.C. Jordan Co. NYSDEC Central NYSDEC Region 9 Washington Mills Electro Minerals

The site tour began at 8:30 a.m. and was conducted by Dean Venturin, Environmental Health and Safety Manager for Washington Before entering the site the field team Mills Electro Minerals. calibrated a photoionization detector and explosimeter/oxygen meter to monitor ambient air quality during the inspection. resulting data were used to confirm that worker health was procedures protected and safety could be instituted concentrations were detected above background levels. above background were detected.

A sketch of the Washington Mills Electro Minerals property and the waste storage area is shown as Figure 2. The Jordan team, accompanied by Dean Venturin, Yavuz Erk, and Sri Maddineni, entered the waste storage area from the eastern side of the site. In the southeastern section of the waste storage area, the Jordan team observed a large scrap metal pile containing various pieces of equipment. To the west of the scrap metal pile, the Jordan team noted numerous scrap wooden pallets. Further west, and along the fence at the southern border, several small piles of concrete, rubble, and soil were observed. North of these debris piles were several hoppers containing chunks of aluminum oxide.

A small concrete pit, covered by a metal sheet was located on the western border of the waste storage area. This pit reportedly was constructed to contain transformer oil that leaked from storage tank trailers. This pit reportedly was never used (Venturin, 1990). An electrical transformer was observed approximately 60 feet north of the pit and was labeled as containing less than 50 parts per million (ppm) of polychlorinated biphenyls (PCBs). An information sheet concerning this transformer is included in Appendix D.

The waste storage area is relatively flat and has been graded over with crushed stone. Although residual silicon carbide fines, sands, and refractory bricks were observed throughout the grounds, most of the wastes stored prior to 1985 appeared to have been removed. The waste storage area was void of vegetative growth with the exception of sparse weeds and grasses growing near Building 82.

Site access is strictly controlled by a chain-link fence extending around the perimeter of the Washington Mills Electro Minerals property and by a gate located on the northern border of the property. The gate is attended by a guard employed by the company.

Permission to take photographs during the site tour was not granted; therefore, photographs are not included in the site file. The site tour was completed at 10:00 a.m.

#### 4.0 SITE ASSESSMENT

The following subsections describe the information gained through the records search, interviews, and site walkover of the Carborundum Site.

#### 4.1 Site History

The Carborundum waste storage area was used for an unknown period of time to store sand, grinding wheels, refractory brick, fly ash, dust collector fines, wood, metal, kiln furniture, aluminum-silica shot, silicon carbide fines, and other scrap materials. Storage of these waste materials was discontinued in 1979 and remaining wastes were removed in 1985 by Modern Disposal Services, Inc. (Ecology and Environment, 1990 and Venturin, 1990). The site was subsequently covered with crushed stone. Visual observations made during the site tour revealed evidence of refractory brick, sand, and silicon carbide fines in the former waste storage area.

The waste storage site is currently used to store scrap metal and wooden pallets, hoppers containing aluminum oxide, and piles of concrete rubble and soil. The scrap metal is periodically removed and recycled by a scrap metal dealer. The aluminum oxide materials are generated and reused in the manufacturing process. Dust fines generated during the manufacture of abrasive grains are collected in baghouses and either reused or sent to the company's Canadian plant for use in its manufacturing process. Paper, garbage, and wood wastes generated at the facility are disposed through Modern Disposal Services, Inc.

From 1901 to 1978 the Carborundum Corporation owned the property. In 1978, Electro Minerals (U.S.), Inc., owned by the Carborundum Corporation, was purchased by Kennecott Copper. In June of 1981, the property was purchased by Standard Oil of Ohio, and in 1987, Washington Mills Abrasives purchased Electro Minerals (U.S.), Inc. from Standard Oil of Ohio.

All of the owners stated above used the Electro Minerals (U.S.), Inc. facility to manufacture refractory products and/or abrasive grains from silicon carbide, aluminum oxide, graphite, and boron carbide. The manufacturing processes included crushing, sorting, bagging, and arc furnace operations. Building 82 was used to manufacture silicon carbide. In 1981 these operations were discontinued and the building is currently used for storage.

Washington Mills Abrasives, current owners of Electro Minerals (U.S.), Inc. facility (now referred to as Washington Mills Electro Minerals) uses the property to manufacture abrasive grains for sand paper and grinding wheels, and to manufacture refractory brick products. Wastes generated in addition to previously discussed waste streams include acetone, methanol, toluene, waste oils, and greases. These materials are collected by Safety Kleen and

Tonawanda Tank for recycling and/or appropriate disposal. The cleaning solvents are used to wash the grains. These solvents have reportedly never been in contact with the wastes that were stored on the Building 82 Site (Venturin, 1990).

The transformer stored near the waste storage site was labeled as containing less than 50 ppm PCBs and the transformer oil containment pit was reportedly never used (Venturin, 1990).

#### 4.2 Site Topography

Surface topography slopes towards the Niagara River located approximately 650 feet south of the Carborundum Site. With the exception of some sparse weeds and grasses, the storage area is void of vegetation. The nearest wetland is approximately 4.75 miles to the east of the site (NYSDEC, Division of Fish and Wildlife). The Carborundum Building 82 Site is surrounded by several chemical industries and is located in the southern portion of the City of Niagara Falls. The waste storage site is not located in a floodplain (Ecology and Environment, 1990).

#### 4.3 Site Hydrology

The following paragraphs describe what is known about the hydrologic setting at the Carborundum Site. The soils on the Carborundum Site consist of the Odessa-Lakemont-Ovid Association. Generally, these soils are somewhat poorly to very poorly drained and are moderately to fine textured (Soil Conservation Service, 1972).

According to soil borings drilled in 1984, surficial geology consists of crushed stone, sand, cinder, refractory brick, and carbon fines (Thomsen Associates, 1984). Immediately beneath the fill material, silts and clays were encountered. Bedrock of the area is primarily sedimentary in origin and consists of Lockport Dolostone. Bedrock depths range from 10 to 24 feet below ground level. Several of the soil borings encountered standing water at depths of 7 to 12 feet (Ecology and Environment, 1990).

Permeability of soils is  $10^4$  to  $10^{-8}$  cm/sec while permeability of the bedrock is  $10^{-2}$  to  $10^4$  cm/sec (Ecology and Environment, 1990).

Groundwater flow is expected to flow southward, towards the Niagara River. An industrial pumping well for non-contact water is located at the Olin Chemical Plant, approximately one-half mile to the northeast. The pumping action of this well may influence groundwater to flow towards the well (Ecology and Environment, 1990).

The City of Niagara obtains its drinking water from the Niagara River. The intakes for the river water are located upstream from the site; therefore, are not threatened by any potential contamination from this site. The nearest drinking water well is greater than 3 miles away. An industrial pumping well is located approximately one-half mile from the site and is used for non-contact cooling water.

#### 4.4 Contamination Assessment

No sampling data exists for the waste storage area. A grab sample of soil was taken from the concrete containment pit adjacent to the waste storage area and analyzed for PCBs (Venturin, 1990). Analysis revealed concentrations of Aroclor 1260 of 0.0012 milligram per liter (ppm) and 0.55 microgram per gram (ppm) which are lower than the NYSDEC maximum allowable concentration of 50 ppm PCBs for hazardous waste characterization (6 NYCRR 371.4(d)(6)(e)). Results of this analysis is attached as Appendix D.

Split-spoon samples were collected at five locations along Adams Avenue (Figure 2) by Earth Dimensions, Inc., in November of 1984. These samples were taken in connection with the installation of the Adams Avenue storm sewer. Analysis of these samples was conducted by Advanced Environmental Systems, Inc. Laboratory results indicated the presence of volatile organic compounds, phenols, and total mercury (AES, 1984). Because these sample locations are upgradient of the waste storage area, it is unlikely that the results are attributable to the Carborundum Site.

#### 5.0 ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

#### 5.1 Hazardous Waste Deposition

Information collected by Jordan did not confirm hazardous waste deposition at the Carborundum Site. The information reviewed by Jordan indicates that wastes were temporarily stored, but not disposed of or landfilled at the site. Wastes stored on-site include scrap metal, wood, sand, fly ash, refractory brick, and silicon carbide fines. These wastes are not considered to be hazardous under 6 NYCRR 371.1(d). The type of manufacturing processes used and products made on-site (abrasive grains and refractory brick) are not associated with the generation of hazardous wastes. Therefore, it is unlikely that hazardous wastes are present in any significant quantity at the Building 82 storage site.

The transformer oil containment pit was sampled and analyzed for PCB's in 1984. Sample results revealed PCB in concentrations below RCRA maximum allowable concentrations of 50 ppm for hazardous waste characterization.

#### 5.2 Significant Threat Determination

The Carborundum Building 82 waste storage site does not pose a significant threat to human health and the environment. There is no evidence of hazardous waste disposal at this site and no documented contravention of standards. Access to the site is limited, as it is secured by a chain-link fence, and guarded. There are no wetlands or drinking water wells within 3 miles of the site. Public drinking water intake pipes on the Niagara River are located upstream of the site.

#### 5.3 Recommendations

Based on the information reviewed and on the documentation of the types of waste stored at the site, Jordan recommends the Carborundum Site be delisted from the suspected inactive hazardous waste registry.

Information collected and reviewed by Jordan revealed the following:

- There is no evidence or documentation of hazardous waste disposal.
- The wastes stored at the site included sand, refractory brick, dust collector fines, grinding wheels, scrap metal, wood, kiln furniture, silicon carbide fines, and aluminum-silica shot. These wastes are not defined as hazardous by 6 NYCRR 371.1(d).

- There is no evidence of any landfilling activities.
- PCBs were detected at levels of 0.0012 ppm and 0.55 ppm, well below NYSDEC maximum allowable concentration for nonhazardous waste (50 ppm) (6 NYCRR 371.4(d)(6)(e)).
- The solvents used on-site to rinse abrasive grains (e.g. methanol, acetone, and toluene), have reportedly had no contact with wastes previously stored on the site.
- The site is located downstream from public drinking water intakes on the Niagara River.
- The site is secured by a chain-link fence and guarded.
- The site is not located near wetlands or drinking water wells (both at least three miles away).

Based on these findings, it is Jordan's recommendation that the Carborundum Building 82 Site be delisted from the suspected inactive hazardous waste registry.

#### GLOSSARY OF ACRONYMS AND ABBREVIATIONS

Niagara County Health Department New York State Department of Environmental Conservation NCHD NYSDEC

New York State Department of Health NYSDOH

polychlorinated biphenyls **PCBs** 

parts per million ppm

Preliminary Site Assessment PSA

14

#### REFERENCES

- Advanced Environmental Systems, Inc. (AES), 1984. Investigation Prior to the Installation of the Adams Avenue Storm Sewer Analysis f Soil Samples Collected December 7, 1984, Report Prepared for Standard Oil of Ohio Electro Minerals Company, December 7, 1984.
- City of Niagara Falls, Tax Assessor's Office, City Hall, Niagara Falls, New York.
- Ecology and Environment Engineering, P.C., 1990. "Engineering Investigations at Inactive Hazardous Waste Sites, Phase I Investigations, Carborundum Building 82, Site Number 932048B", Prepared for New York State Department of Environmental conservation, Division of Hazardous Waste Remediation, January, 1990.
- Johnston, R.H. Groundwater in the Niagara Falls Area, New York, State of New York Conservation Department, Water Resources Commission Bulletin GW-53.
- New York State Department of Environmental Conservation, Division of Hazardous Waste Remediation, Central Office, Albany, New York, Contact: Sri Maddineni.
- New York State Department of Environmental Conservation, Region 9, Division of Solid and Hazardous Waste, 584 Delaware Avenue, Buffalo, New York, Contact: Yavuz Erk.
- New York State Department of Environmental Conservation, Region 9, Division of Fish and Wildlife, Wetland Maps, 600 Delaware Avenue, Buffalo, New York.
- New York State Department of Health, Corning Tower, The Governor Nelson A. Rockefeller Empire State Plaza, Albany, New York.
- New York State Department of Health, Regional Office, 584 Delaware Avenue, Buffalo, New York, Contact: Cameron O'Connor.
- 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 Dicky.
- Niagara County Soil and Water Conservation District, Farm and Home Center, 4487 Lake Avenue, Lockport, New York 14094, Contact: Richard Tillman.

# REFERENCES (Continued)

- Soil Conservation Service, 1972. "Soil Survey of Niagara County, New York", Soil Conservation Service 4487 Lake Avenue, Lockport, New York, October 1972.
- Thomsen Associates, Proposed SIC Facility, SOHIO Electro Minerals Company, Niagara Falls, New York, August 13, 1984.
- Venturin, Dean E., 1990. Manager Environmental Health and Safety, Washington Mills Electro Minerals Corporation, 1801
  Buffalo Avenue, Niagara Falls, New York 14302.
  Interview with Roger Bondeson, E.C. Jordan Co., Portland, Maine, July 25, 1990.

#### APPENDIX B

SITE INSPECTION REPORT (USEPA FORM 2070-13)

## € FPA

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

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01 SITE NAME (Legal, c	ommon, or descriptive nam	e of site)	•	02 STRE	ET, ROUTE	NO.,	OR SPECIFIC	LOCATION	IDENTIFIE	R	
Carborundum Buildin	g 82			l .	falo Aveni						
03 CITY		•		04 STATE	05 ZIP	CODE	06 COUNTY		07 COUNTY	08 CONG.	
Niagara Falls				New York	14302	- 1,	Niagara		CODE	DIST	
09 COORDINATES LATITUDE 4 3° 0 5′ 0 2"	LONGITUDE 0 7 2° 0 2' 1 4"	I XA.	OF OWNERSHIP PRIVATE E OTHER	IIP (Check one) B. FEDERAL C. STATE D. COUNTY E. MUI							
III. INSPECTION INFO	·	1								· · · · · · · · · · · · · · · · · · ·	
01 DATE OF INSPECTION 7 / 25 / 90 MONTH DAY YEA	X ACTIVE	03 YEAR	ARS OF OPERATION 1901 UNKNOWN BEGINNING YEAR ENDING YEAR								
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05 CHIEF INSPECTOR	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	TITLE			Inz i	ORGANIZATION		OR TELES	PHONE NO.	
Roger L. Bondeson			ironmental Sc	ientist			. Jordan Co.		(207) 77		
09 OTHER INSPECTORS Kathy Lanois		TITLE ironmental Sc	ientist			ORGANIZATION . Jordan Co.	12 TELEPHONE NO. (207) 775-5401				
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13 SITE REPRESENTAT:	IVES INTERVIEWED	14	TITLE	15 ADDRESS			-		16 TELEP	HONE NO.	
Dean E. Venturin			ager, ironmental	Washington Mills Electro Minerals P.O. Box 423, 1801 Buffalo Avenue					(716) 278-6763		
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17 ACCESS GAINED BY (Check one) X PERMISSION WARRANT	18 TIME OF INSPECT 8:30 am		WEATHER CONDI Sunny, 76° F	TIONS							
IV. INFORMATION A	VAILABLE FROM										
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04 PERSON RESPONSIBL Roger L. Bondeson	E FOR SITE INSPECTION	ON FORM	05 AGENCY		RGANIZATI Jordan C		07 TELEPHO (207) 775-			25/ 90 DAY YEAR	

# **Ş** EPA

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

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				TE INFORM			<del></del>		New	York	D042513	754		
		QUANTITIES, A	- <del> </del>		-		T == :::			·			<del></del>	
apply)	ID IDER, FINES IDGE IER	E. SLURRY F. LIQUID G. GAS	(IM mu:	ASTE QUANTI feasures of we at be independ TONS BIC YARDS OF DRUMS	sete quantities lent) unknown					ERISTICS (Check E. SOLUBI F. INFECT G. FLAMM H. IGNITA	LE TIOUS -	I. HI	GHLY VOLAT PLOSIVE ACTIVE COMPATIBLE OT APPLICAT	TILE E BLE
III. WAS	<del></del>						<u> </u>							
	SUBSTANCE	NAME	O1 GR	OSS AMOUNT	02 UNIT O	F ME	ASURE	03 C	OMMENT	\$				
SLU	SLUDGE	··	<del> </del>		<del> </del>			Temp	orarv	storage area f	or sand	fly	ash fire	
OLW	OILY WAST	E	<del> </del>							t collector fi				od.
SOL	SOLVENTS	"	<del>                                     </del>					<b>├</b>		heels, aluminu				
PSD	PESTICIDE	S	<b> </b>					<del></del>		p. No waste h				
occ	OTHER ORG	ANIC CHEMICALS	<del> </del>	<del></del>						t now in use.				
100	INORGANIC	CHEMICALS			-			-	-					
ACD	ACIDS				<del> </del> -		7							
BAS	BASES		-		ļ			<del>                                     </del>						
MES	HEAVY MET	ALS	<u> </u>	-				<u> </u>					<del>- 1.71</del>	
IV. HAZA	RDOUS SU	BSTANCES (See	Append	ix for most fre	quently cited	CASI	Vumbers	i)					<del></del>	
01 CATEGO	RY	02 SUBSTANCE	NAME	03 CAS NUI	MBER		STORAC	GE/DIS	POSAL	05 CONCENTRAT			ASURE OF	
				<del> </del>		MEI	nou					CONCE	NTRATION	
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V. FEEDS	TOCKS (Se	e Appendix for CAS	Number	s)								-		
CATEGO	RY 01	EEDSTOCK NAME		02 (	CAS NUMBER		CATEGO	RY	01 FE	EDSTOCK NAME			02 CAS NU	MBER
FDS							FDS							
FDS							FDS							
FDS							FDS							
FDS							FDS							
VI. SOU	RCES OF IN	FORMATION (	Cite spec	ific references	, e.g., state fil	09, 98	imple an	nalysis,	reports)					
Prelimina	ry Site As:	sessment Report	, Janua	ary 1991, E	.C. Jordan	Co.,	, and	refere	ences	ited therein.				

#### POTENTIAL HAZARDOUS WASTE SITE **I.IDENTIFICATION ⊕** EPA SITE INSPECTION REPORT 01 STATE 01 SITE NUMBER PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS New York D042513754 II. HAZARDOUS CONDITIONS AND INCIDENTS 01 X A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: <u>unknown</u> OBSERVED (DATE: \_ POTENTIAL \_ ALLEGED 04 NARRATIVE DESCRIPTION There is potential for contamination; site is not lined. 01 X B. SURFACE WATER CONTAMINATION OBSERVED (DATE: POTENTIAL \_ ALLEGED 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: > 10,000 Potential for surface water is present, site is approximately 600 feet from the Niagara River. Potential is low because waste is no longer being stored on-site. 01 x C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: > 10,000 OBSERVED (DATE: \_\_POTENTIAL \_\_ ALLEGED 02 04 NARRATIVE DESCRIPTION Potential is low as waste is no longer being stored on-site. 01 x D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: 100-1,000 OBSERVED (DATE: POTENTIAL \_ ALLEGED 04 NARRATIVE DESCRIPTION Waste no longer present in storage area. E. DIRECT CONTACT OBSERVED (DATE: \_ POTENTIAL \_ ALLEGED 03 POPULATION POTENTIALLY AFFECTED: unknown 04 NARRATIVE DESCRIPTION Potential for direct contact is low-waste is removed and site is graded over with fill. X F. CONTAMINATION OF SOIL OBSERVED (DATE: \_ POTENTIAL \_ ALLEGED 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: 100-1,000 Potential for soil contamination is higher; waste was placed directly on ground surface. Only workers would be exposed as site is guarded and fenced. G. DRINKING WATER CONTAMINATION OBSERVED (DATE: POTENTIAL \_\_ ALLEGED 03 POPULATION POTENTIALLY AFFECTED: \_\_\_ 04 NARRATIVE DESCRIPTION < 10 Potential is low; water intake for Niagara Falls is located upstream in the Niagara River. 01 X H. WORKER EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: 100-1,000 OBSERVED (DATE: POTENTIAL ALLEGED

04 NARRATIVE DESCRIPTION

OBSERVED (DATE: 04 NARRATIVE DESCRIPTION POTENTIAL \_ ALLEGED

Potential for worker exposure is low; waste has been removed and site graded over with fill.

02

Potential is low; waste has been removed and site graded over with fill. Site is also fenced and guarded.

01 x 1. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: 10-100

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

**I.IDENTIFICATION ₽** EPA 01 STATE 01 SITE NUMBER New York D042513754 PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS II. HAZARDOUS CONDITIONS AND INCIDENTS [Continued] 01 J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION 02 \_ OBSERVED (DATE: \_ \_ POTENTIAL \_ ALLEGED 02 \_ OBSERVED (DATE: 01 X K. DAMAGE TO FAUNA \_ POTENTIAL \_ ALLEGED 04 NARRATIVE DESCRIPTION (Include name(s) of species) Potential for damage to fauna is low; area is fenced, there is no vegetation and waste has been removed. 01 L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION 02 \_\_ OBSERVED (DATE: \_\_\_\_\_\_) \_\_ POTENTIAL \_\_ ALLEGED 01 X M. UNSTABLE CONTAINMENT OF WASTES 02 \_\_ OBSERVED (DATE: \_\_\_\_ X POTENTIAL \_ ALLEGED [Spills/Runoff/Standing liquids, Leeking drums]
03 POPULATION POTENTIALLY AFFECTED: 100-10,000 04 NARRATIVE DESCRIPTION Potential is low; waste has been removed from site and is covered with fill. Only workers would be exposed because site is fenced and heavily guarded. \_ POTENTIAL \_ ALLEGED N. DAMAGE TO OFFSITE PROPERTY OBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION Potential appears to be low; waste has been removed from site. O1 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS
O3 POPULATION POTENTIALLY AFFECTED: OBSERVED (DATE: POTENTIAL ALLEGED 02 04 WARRATIVE DESCRIPTION Unknown. Potential appears to be low; waste has been removed from site. 02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION P. ILLEGAL/UNAUTHORIZED DUMPING POTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED: No potential. Site is fenced, grounds are guarded. 05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS A transformer oil containment pit is located adjacent to the waste storage area. A composite sample was taken from this pit. PCBs were detected at 0.0012 ppm and 0.55 ppm. III. TOTAL POPULATION POTENTIALLY AFFECTED: 18,750 IV. COMMENTS No evidence or documentation of hazardous waste disposal was discovered.

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

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

<b>\$</b>	EP	Α.
l PF	RMIT	18

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

**I.IDENTIFICATION** 

01	STATE

OT TYPE OF PERMIT ISSUED  (Check all that apply)	II. PERMIT INFORMATION  III. PERMIT INFORMATION  OT TYPE OF PERMIT ISSUED  OT TYPE OF PERMIT ISSUED  III. PERMIT ISSUED  OT TYPE OF TYPE OF TYPE  OT TYPE OF TYPE OF TYPE  OT	١٠.	1 STIE NOMBEK
(Check all that apply) A. NPDES B. UIC C. AIR D. RCRA E. RCRA INTERIM F. SPCC PLAN F. SPCC PLAN J. OTHER (specify) H. LOCAL (specify) J. NONE III. SITE DESCRIPTION OI STORAGE/DISPOSAL (specify) A. SUBFACE IMPOUNDMENT B. PILES C. DRUMS, ABOVE GROUND D. TANK, ABOVE GROUND J. TANK, ABOVE GROUND C. C. CHENICAL/PYPISICAL E. TANK, SECON GROUND J. TANK, ABOVE GROUND J. TANK, BECOM GROUND J. TANK, BECOM GROUND J. TANK, BECOM GROUND J. TANK, BECOM GROUND J. TANK, ABOVE GROUND J. TANK, BECOM GROUND J. TANK, BEC	O1 TYPE OF PERMIT ISSUED (Check all that apply)  _A. NPDES  B. UIC  _C. AIR  _D. RCRA  E. RCRA INTERIM  STATUS  _F. SPCC PLAN  _G. STATE (specify)  _H. LOCAL (specify)  _H. LOCAL (specify)  STORAGE/DISPOSAL (specify)  _A. SURFACE IMPOUNDENT  _A. SURFACE IMPOUNDENT  _B. TANK, ABOVE GROUND  _C. TANK, ABOVE GROUND  _F. LANDFILL  _C. LANDFI	00	342513754
(Check all that apply)  _A. NPDES  _B. UIC  _C. AIR  _D. RCRA  _E. RCRA INTERIM  _STATUS  _F. SPCC PLAN  _G. STATE (aspecify)  _H. LOCAL (aspecify)  _H. LOCAL (aspecify)  _J. NONE  MI. SITE DESCRIPTION  01 SIGNAGE/DISPOSAL (aspecify)  _A. SUBFACE (IMPOUNDMENT)  _C. DRUNS, ABOVE GROUND  _E. TANK, BELOW GROUND  _E. TANK, BELOW GROUND  _E. TANK, BELOW GROUND  _C. LANDER ABOVE GROUND  _C. LANDER BECYLLING/RECOVERY  _N. OTHER (specify)  07 COMMENTS   W. CONTAINMENT  OT LANDER LESSIBLE: _YES _X NO  OZ COMMENTS	(Check all that apply)  _A. NPDES  _B. UIC  _C. AIR  _D. RCRA  _E. RCRA INTERIM STATUS  _F. SPCC PLAN  _G. STATE (specify)  _H. LOCAL (specify)  _H. LOCAL (specify)  _J. NONE  III. SITE DESCRIPTION  OI STORAGE/DISPOSAL (check all that apply)  _A. SURFACE IMPOUNDMENT  _B. PILES  _B. PILES  _C. ROWINS, ABOVE GROUND  _C. TANK, SELOW GROUND  _F. LANDFILL  _G. LANDFILL		
		)5 COMMENTS	;
	C. AIRD. RCRAE. RCRA INTERIMSTATUSF. SPCC PLANG. STATE (specify)H. LOCAL (specify)N. OTHER (specify)N. OTHER (specify)STATE (specify)N. ONDESTATE (specify)N. SURFACE IMPOUNDMENTS. PILES		
F. SPCC PLAN  G. STATE (specify)  H. LOCAL (specify)  J. NONE  STORAGE/PISPOSAL (scheck all that spply)  OZ AMOUNT OJ UNIT OF MEASURE (scheck all that spply)  A. SURFACE (MPOUNDMENT)  B. PILES  C. DRUNS, ABOVE GROUND  D. 1ANK, ABOVE GROUND  E. 1ANK, ABOVE GROUND  E. 1ANK, ABOVE GROUND  J. LOTHER (specify)  M. OPTEN DUMP  H. OPTEN DUMP  I. OTHER (specify)  OT COMMENTS  There is no documentation that hazardous wastes were stored on-site.  D. STORAGE/PISPOSAL (specify)  OT CONTAINMENT  OT LOTER STORE (scheck one)  A. ADEQUATE, SECURE B. MODERATE X. C. INADEQUATE, POOR D. INSECURE, UNSOUND, DANGEROUS  V. ACCESSIBILITY  OT MASTE EASILY ACCESSIBLE: YES X NO OZ COMMENTS	E. RCRA INTERIM STATUS  F. SPCC PLAN  G. STATE (specify) H. LOCAL (specify) J. NONE  III. SITE DESCRIPTION  O1 STORAGE/DISPOSAL (check all that apply) A. SURTACE IMPOUNDMENT B. PILES C. DEUNS, ABOVE GROUND C. DEUNS, ABOVE GROUND C. TANK, ABOVE GROUND F. LANDFILL C. TANK, BELOW GROUND F. LANDFILL C. LANDFILL G. LANDFI		<del></del>
F. SPCC PLAN  G. STATUS  H. LOCAL IspecifyI  H. LOCAL IspecifyI  SPDES NYD001367481  For cooling water discharge  J. NONE  III. SITE DESCRIPTION  OS STORACE/JISPOSAL (check all that apply)  G. SURJOURNENT  G. DRINS, ABOVE GROUND  F. LANK, ABOVE GROUND  F. LANK, ABOVE GROUND  F. LANDS FILL  G. LANDS FILL	F. SPCC PLAN  G. STATE (specify)  H. LOCAL (specify)  J. NONE  STORAGE/DISPOSAL (check all thet apply)  A. SURFACE IMPOUNDMENT  B. PILES  C. DRUMS, ABOVE GROUND  D. TANK, ABOVE GROUND  F. LANDFILL  G. LANDFARM  H. OPEN DUMP  II. OTHER  (specify)  OT COMMENTS  There is no documentation that hazardous wastes were stored on-site.  STATUS  V. ACCESSIBILITY  OT WASTE EASILY ACCESSIBLE: YES X NO OZ COMMENTS  V. ACCESSIBILITY  OT WASTE EASILY ACCESSIBLE: YES X NO OZ COMMENTS		
X I. OTHER (specify) SPDES NYD001367481 For cooling water discharge  J. NONE  III. SITE DESCRIPTION  OI STORAGE/DISPOSAL icheek all that spoly) O2 AMOUNT O3 UNIT OF MEASURE (sheek all that spoly)	X I. OTHER (specify) SPDES NYD001367481		
III. SITE DESCRIPTION  01 STORAGE/DISPOSAL (check eil that apply)	III. SITE DESCRIPTION  01 STORAGE/DISPOSAL (check all that apply)  A. SURFACE IMPOUNDMENT  B. PILES  C. DRUMS, ABOVE GROUND  D. TANK, ABOVE GROUND  E. TANK, BELOW GROUND  G. LANDFARM  II. OTHER  (specify)  07 COMMENTS  10 CONTAINMENT  01 CONTAINMENT OF WASTES (check one)  A. ADCESSIBILITY  O1 WASTE EASILY ACCESSIBLE: _ YES X NO  02 AMOUNT 03 UNIT OF MEASURE (check one)  C. C. CHEMICAL/PHYSICA  D. M. LINCHERATION  A. LICIMERATION  B. UNDERGROUND INJE  C. C. CHEMICAL/PHYSICA  D. BIOLOGICAL  C. C. CHEMICAL/PHYSICA  D. BIOLOGICAL  E. WASTE OIL PROCES  X F. SOLVENT RECOVERY  X H. OPEN DUMP  Unknown  Unknown  (specify)  O7 COMMENTS  There is no documentation that hazardous wastes were stored on-site.	or cooling	water discharge
O1 STORAGE/DISPOSAL teheck all that apply) O2 AMOUNT O3 UNIT OF MEASURE   04 TREATMENT   05 OTHER X A. BUFFACE INPOUNDENT   A. SURFACE IMPOUNDMENT   A. SURFACE IMPOUNDMENT   A. UNDERGROUND   A.	O1 STORAGE/DISPOSAL (check all that apply)  O2 AMOUNT O3 UNIT OF MEASURE (check all that apply)  A. SURFACE IMPOUNDMENT		<del></del>
Check ell that apply)	Check all that apply    O2 AMOUNT   O3 UNIT OF MEASURE   Check all that apply		
	B. PILES C. DRUMS, ABOVE GROUND D. TANK, ABOVE GROUND E. TANK, BELOW GROUND E. WASTE DIL PROCESS F. LANDFILL E. WASTE DIL PROCESS F. LANDFILL E. WASTE DIL PROCESSIBLE: E. WASTE		05 OTHER X A. BUILDINGS ONSITE
There is no documentation that hazardous wastes were stored on-site.  IV. CONTAINMENT  01 CONTAINMENT OF WASTES (check one)  A. ADEQUATE, SECURE B. MODERATEX C. INADEQUATE, POOR D. INSECURE, UNSOUND, DANGEROUS  02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.  No liners in use.  V. ACCESSIBILITY  01 WASTE EASILY ACCESSIBLE:YES _X NO	There is no documentation that hazardous wastes were stored on-site.  IV. CONTAINMENT  O1 CONTAINMENT OF WASTES (check one)  A. ADEQUATE, SECURE B. MODERATEX C. INADEQUATE, POOR D. INSECURE, COMMENTS  O2 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.  V. ACCESSIBILITY  O1 WASTE EASILY ACCESSIBLE:YES _X NO O2 COMMENTS	CAL ESSING RY G/RECOVERY	
01 CONTAINMENT OF WASTES (check one)  A. ADEQUATE, SECURE B. MODERATE _X C. INADEQUATE, POOR D. INSECURE, UNSOUND, DANGEROUS  02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.  No liners in use.  V. ACCESSIBILITY  01 WASTE EASILY ACCESSIBLE: YES _X NO	O1 CONTAINMENT OF WASTES (check one)  A. ADEQUATE, SECURE B. MODERATE _X C. INADEQUATE, POOR D. INSECURE, I  O2 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.  No liners in use.  V. ACCESSIBILITY  O1 WASTE EASILY ACCESSIBLE: YES _X NO O2 COMMENTS		
A. ADEQUATE, SECURE B. MODERATEX C. INADEQUATE, POOR D. INSECURE, UNSOUND, DANGEROUS  02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.  No liners in use.  V. ACCESSIBILITY  01 WASTE EASILY ACCESSIBLE:YES _X NO 02 COMMENTS	A. ADEQUATE, SECURE B. MODERATE _X C. INADEQUATE, POOR D. INSECURE, I  02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.  No liners in use.  V. ACCESSIBILITY  01 WASTE EASILY ACCESSIBLE: _ YES _X NO 02 COMMENTS		
02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.  No liners in use.  V. ACCESSIBILITY  01 WASTE EASILY ACCESSIBLE:YES X NO 02 COMMENTS	02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.  No liners in use.  V. ACCESSIBILITY  01 WASTE EASILY ACCESSIBLE: _ YES X NO 02 COMMENTS		
V. ACCESSIBILITY  01 WASTE EASILY ACCESSIBLE: _ YES X NO 02 COMMENTS	V. ACCESSIBILITY  01 WASTE EASILY ACCESSIBLE: _ YES X NO 02 COMMENTS	UNSOUND, [	DANGEROUS
V. ACCESSIBILITY  01 WASTE EASILY ACCESSIBLE: _ YES X NO 02 COMMENTS	V. ACCESSIBILITY  01 WASTE EASILY ACCESSIBLE:YES X NO 02 COMMENTS		
01 WASTE EASILY ACCESSIBLE: _ YES X NO 02 COMMENTS	01 WASTE EASILY ACCESSIBLE: _ YES X NO 02 COMMENTS		
01 WASTE EASILY ACCESSIBLE:YES X NO 02 COMMENTS	01 WASTE EASILY ACCESSIBLE: _ YES X NO 02 COMMENTS		
01 WASTE EASILY ACCESSIBLE: _ YES X NO 02 COMMENTS	01 WASTE EASILY ACCESSIBLE: _ YES X NO 02 COMMENTS		
02 COMMENTS	02 COMMENTS		
Site is fenced and guarded, waste has been removed.			
	Site is fenced and guarded, waste has been removed.		
VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)	VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)		

l	TENTIAL HAZARDOU	S WASTI	SITE			I.IDENTIFICATI	ON		
♦ EPA	SITE INSPECTION	REPORT			Ī	01 STATE	01	SITE NUMBER	
PAI	RT 5 - WATER, DEMOGRAPHIC, AND E	NVIRONMENT	AL DATA			New York	00	42513754	
II. DRINKING WATER SUI	PPLY								
01 TYPE OF DRINKING SUP	PLY	02 STATE	JS				03 DI	STANCE TO SIT	£
	SURFACE WELL	ENDANGE		FECTED	MO	NITORED		_	
COMMUNITY NON-COMMUNITY	A. <u>X</u> A B B	A D		B E		C. <u>X</u> F	A	2	(mi) (mi)
III. GROUNDWATER		<del></del>							
01 GROUNDWATER USE IN V	ICINITY (check one)					·			
_ A. ONLY SOURCE FOR DRINKING	B. DRINKING (other sources available) COMMERCIAL, INDUSTR (No other water sources of		GATION	X C. CON	MMER( mited	CIAL INDUSTRIAL other sources avai	. IRRIGA		NOT USED, UNUSABLE
02 POPULATION SERVED BY	GROUNDWATERO	·	03 DISTA	NCE TO N	EARE	ST DRINKING WA	TER WEL	L <u>&gt; 3</u>	(mi)
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWA	TER FLOW		TO AQUI	FER	07 POTENTIAL OF AQUIFER		08 SOLE SOUR	CE AQUIFER
9 (ft)	southwest			9 (	ft)	unknown	(gpd)	_ YES	<u>x</u> no
09 DESCRIPTION OF WELLS	(including usage, depth, and locat	ion relative t	population	and buildi	ngs)	<del> </del>			
A well drawing water fro approximately 4/10 mile	om the aquifer of concern to the northeast on the O	is used f Nin Corp.	or non-c propert	ontact co	oolir	ng processes.	This we	ell is located	đ
10 RECHARGE AREA			11 DIS	CHARGE A	REA				
	ck aquifer can be recharge ecipitation seeping throug		X NO	COMMENT	s				
IV. SURFACE WATER									
01 SURFACE WATER USE (Ch X A. RESERVOIR, RECREATI DRINKING WATER SOUR	ION _ B. IRRIGATION, ECO		_ c. (	COMMERCIA	AL IN	IDUSTRIAL _ D	. NOT (	CURRENTLY USED	)
02 AFFECTED/POTENTIALLY	AFFECTED BODIES OF WATER								
NAME:						AFFECT	ED DI	STANCE TO SIT	E
Niagara River Lake Ontario							_	600 feet	<del></del> ,_:\
Edit Cartai 10							-	14	(mi) (mi)
V. DEMOGRAPHIC AND P	PROPERTY INFORMATION								
01 TOTAL POPULATION WITH	IIN	· · · · · ·				02 DIS	TANCE T	NEAREST POP	ULATION
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THR	EE (3) MI	LES OF S	ITE	1			
A. 18,758 NO. OF PERSONS	8. <u>39,797</u> NO. OF PERSONS	_ c.		663 Of Person	vs_		***	0.25	(mi)
03 NUMBER OF BUILDINGS W	VITHIN TWO (2) MILES OF SI	TE	04 D	ISTANCE	TO NE	AREST OFF-SITE	BUILD	ING ·	
	17,710		-			******	11	00 feet	
05 POPULATION WITHIN VIC populated urban area)	CINITY OF SITE (Provide nerrati	ve descriptio	n of nature	of populati	on wi	thin written vicinity	of site, e	o.g., rural, village,	densely
This site is in a highly site.	v industrialized area. A	densely po	pulated	urban ar	ea i	s located with	in a ha	lf-mile radiu	s of this
			*						

# POTENTIAL HAZARDOUS WASTE SITE

LIDENTIFICATION

EPA S	ITE INSPECTION REPORT		01 STATE	01 SITE NUMBER			
PART 5 - W	ATER, DEMOGRAPHIC, AND ENVIRONMENTAL	DATA	New York	D042513754			
VI. ENVIRONMENTAL INFORM	IATION	7.8.48					
01 PERMEABILITY OF UNSATURATE	ED ZONE (Check one)						
_ A. 10 <sup>-8</sup> - 10 <sup>-8</sup> cm/sec	$\underline{X}$ B. $10^{-4}$ - $10^{-6}$ cm/sec	_ C. 10 <sup>-4</sup> - 10 <sup>-3</sup> c	m/sec _ D. G	REATER THAN 10 <sup>-3</sup> cm/sec			
02 PERMEABILITY OF BEDROCK (C	heck one)						
A. IMPERMEABLE (Tess than 10° cm/sec)	_ B. RELATIVELY IMPERMEABLE (10 - 10 cm/sec)	X C. RELATIVE (10° - 10°	LY PERMEABLE cm/sec)	D. VERY PERMEABLE (Greater than 10 <sup>-2</sup> cm/sec)			
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL	ZONE 05 SOI	IL Ph				
9 (ft)	<u>unknown</u> (ft)	_5.6	<u> 6 - 7.6</u>				
06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE	ATT				
		SITE SLOPE	DIRECTION OF SI	TE SLOPE   TERRAIN AVERAGE SLOPE			
4 (in)	(in)	0.1 %	southwest	0.1%			
09 FLOOD POTENTIAL	10	·					
SITE IS IN N/A YEA	AR FLOODPLAIN SITE IS	ON BARRIER ISLAND	), COASTAL HIGH	HAZARD AREA, RIVERINE FLOODWAY			
11 DISTANCE TO WETLANDS (5 BOTT	minimum)	12 DISTANCE TO	CRITICAL HABITA	AT (of endangered species)			
ESTAURINE	OTHER			>3 (mi)			
A > 3 (n	ni) B. 3.5 (mi)	ENDANGERED S	ENDANGERED SPECIES: N/A				
13 LAND USE IN VICINITY		I					
DISTANCE TO:							
COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL, FORESTS, OR WILDLIFE RE	/STATE PARKS,	AGRICULTI PRIME AG LAND	URAL LANDS AG LAND			
A. 0 (mi)	B. 1,500 feet		1.5 (mi)				
, the second	. <u> </u>			J			
14 DESCRIPTION OF SITE IN REL	ATION TO SURROUNDING TOPOGRAPHY	1					
**************************************			er. 1 t				
lfeet north of the Niagara Riv	les east of the American Falls i ver in a highly industrialized s	southern section o	f the city. Th	is area is characterized by			
numerous chemical plant facil	lities. Residential areas are l	located approximat	ely 1,500 feet	to the north of the site.			
		•					
				•			
				•			
VII. SOURCES OF INFORMATION	ON (Cite specific references, e.g., state fi	iles, sample analysis, rep	ports)				
Preliminary Site Assessment R	Report, January 1991, E.C. Jorda	an Co., and refere	nces cited there	ein.			

# **Ş** EPA

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

1.IDENTIFICATION

PART 6 - SAMPLE AND FIELD INFORMATIO	PART 6	r 6 - Sami	PLE AND	FIELD	INFORMATIO
--------------------------------------	--------	------------	---------	-------	------------

01 STATE 01 SITE NUMBER

1	PARTO	- SAMPLE ANI	) FIELD IN	IFORMATION		New York	D042513754
II. SAMPLES TAI	CEN - No sam	ples were col	lected dur	ing this PSA	Task 1		
SAMPLE TYPE		01 NUMBER OF SAMPLES TAK	(EN	02 SAMPLES	SENT TO		03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER							
SURFACE WATER							
WASTE							
AIR							
RUNOFF							
SPILL							
SOIL							
VEGETATION							
OTHER							
III. FIELD MEASU	REMENTS TA	4KEN		•	. "		
O1 TYPE		02 COMMENTS			· · ·		
HNU Air Monitori	ng .	No readings at	oove backg	round noted			
		,		γ .			
				· · · · · · · · · · · · · · · · · · ·		·	
IV. PHOTOGRAP	HS AND MAP	rs					
01 TYPE GROUN	AERIAL		02 IN CUS	TODY OF	NYSDEC	(Name of organizati	ion or individue!)
03 MAPS	04 LOCATION	OF MAPS			·- · · · · · ·	<u> </u>	
X YES	<u>Sri Mad</u>	dineni, NYSDEC	. Albany,	New York			
V. OTHER FIELD	DATA COLLE	CTED (Provide r	narrative desc	cription)			
No other field d	ata was colle	ected for this	; PSA TASK				
	•.	•					
}							
VI. SOURCES OF	INFORMATIO	ON (Cite specific	references, e	.g., state files, s	ample analysis,	, reports)	
Preliminary Site	Assessment F	Report, Januar	y 1991, E	.C. Jordan C	o., and ref	erences cited the	rein.

POTENTIAL HAZARDOUS WASTE SITE **I.IDENTIFICATION €** EPA SITE INSPECTION REPORT 01 STATE 01 SITE NUMBER PART 7 - OWNER INFORMATION New York 0042513754 II. CURRENT OWNER(S) PARENT COMPANY (If applicable) 01 NAME 02 D+B NUMBER 08 NAME 09 D+B NUMBER Electro Minerals (U.S.), Inc. Washington Mills Abrasives 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 10 STREET ADDRESS (P.O. Box, RFD #, etc.) 11 SIC CODE 20 North Main Street Buffalo Avenue 05 CITY 06 STATE 07 ZIP CODE 12 CITY 13 STATE 14 ZIP CODE Niagara Falls New York 14302 North Grafton MA -01 NAME 02 D+B 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 : 01 NAME OZ 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 01 NAME 02 D+B 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 III. PREVIOUS OWNER(S) (List most recent first) IV. REALTY OWNER(S) (If applicable; list most recent first) 01 NAME 02 D+B NUMBER 01 NAME 02 D+B NUMBER Carborundum 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE Buffalo Avenue 05 CITY 06 STATE 07 ZIP CODE 05 CITY 06 STATE 07 ZIP CODE Niagara Falls New York 14302 01 NAME 02 D+B NUMBER 01 NAME 02 D+B NUMBER 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 05 CITY 06 STATE 07 ZIP CODE 05 CITY 06 STATE 07 ZIP CODE 02 D+B NUMBER 01 NAME 01 NAME 02 D+B NUMBER 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 05 CITY 06 STATE 07 ZIP CODE 05 CITY 06 STATE 07 ZIP CODE V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports) Preliminary Site Assessment Report, January 1991, E.C. Jordan Co., and references cited therein.

no.	ערדין <u>א</u> רדי	AY TYAT	4 T	TO THE STATE OF	rows and						
l				RDOUS WASTE SI	ITE	LIDENTIFICATION	ON				
<b>Ş</b> EPA	SIT	E INSPE	C	TION REPORT		01 STATE	01 SI	TE NUMBER			
	PART	8 - OPERA	AT(	OR INFORMATION		New York	00425	13754			
II. CURRENT OPERATOR	(Provide	if different fr	om	owner)	OPERATOR'S PA	RENT COMPAN	(If applicat	ole)			
01 NAME Washington Mills Electro	Minera	ols	0	2 D+8 NUMBER	10 NAME Washington Mill:	s Abrasives		11 D+B NUMBER			
03 STREET ADDRESS (P.O. Bo) Buffalo Avenue	c, RFD #	, etc.)		04 SIC CODE	12 STREET ADDRES		, etc.)	13 SIC CODE			
05 CITY Niagara Falls		06 STATE New York		7 ZIP CODE 4302	14 CITY North Grafton .	7.7	15 STATE	16 ZIP CODE			
08 YEARS OF OPERATION 2	09 NA	ME OF OWN	ER	i			<del></del>				
III. PREVIOUS OPERATOR different from owner)	(S) (List	t most recent	t fir	st; provide only if	PREVIOUS OPERATOR'S PARENT COMPANIES (If applicable)						
01 NAME Carborundum Corp.	•		0	2 D+B NUMBER	10 NAME Standard Oil of	11 D+B NUMBER					
03 STREET ADDRESS (P.O. Box, RFD #, etc.) Buffalo Avenue				04 SIC CODE	12 STREET ADDRES	SS (P.O. Box, RFD #	, etc.)	13 SIC CODE			
05 CITY 06 STATE New York			0	7 ZIP CODE	14 CITY Cleveland		15 STATE OH	16 ZIP CODE			
08 YEARS OF OPERATION 09 NAME OF OWNER											
O1 NAME			02	2 D+B NUMBER	10 NAME	11 D+B NUMBER					
03 STREET ADDRESS (P.O. Box	03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE			
05 CITY		06 STATE	0	7 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE			
08 YEARS OF OPERATION	09 NAI	ME OF OWNE	R					1			
O1 NAME	_		02	2 D+B NUMBER	10 NAME			11 D+B NUMBER			
03 STREET ADDRESS (P.O. Box	, RFD #,	etc.)		04 SIC CODE	12 STREET ADDRES	SS (P.O. Box, RFD #	etc.)	13 SIC CODE			
05 CITY		06 STATE	O	7 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE			
08 YEARS OF OPERATION	09 NA	ME OF OWNE	R				<del></del>				
IV. SOURCES OF INFORM	ATION	(Cite specific	c re	aferences, e.g., state files,	sample analysis, repo	rts)		<del>- //</del>			
				<del></del>		<del> </del>					
Preliminary Site Assessme	nt Rep	ort, Janua	ary	/ 1991, E.C. Jordan	Co., and referen	ces cited therei	n.				
·											

# POTENTIAL HAZARDOUS WASTE SITE

LIDENTIFICATION

				0112	1belli il loa il				
<b>Ş</b> EPA	SIT	E INSPE	CTION REPORT		01 STATE	01 SI	TE NUMBER		
	PART 9 - GEN	ERATOR/T	RANSPORTER INFOR	MATION	New York	D0425	13754		
II. ON-SITE GEN	ERATOR		· • = =						
01 NAME Washington Mills	s Electro Miner	als	02 D+B NUMBER						
03 STREET ADDRES Buffalo Avenue	SS (P.O. Box, RFD 4	, etc.)	04 SIC CODE						
05 CITY Niagara Falls		06 STATE New York	07 ZIP CODE 14302				·		
III. OFF-SITE GE	NERATOR(s)					<u></u>			
01 NAME		•	02 D+B NUMBER	01 NAME			02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		, etc.}	04 SIC CODE	03 STREET ADDR	03 STREET ADDRESS (P.O. Box, RFD #, etc.)				
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE		
O1 NAME		02 D+B NUMBER	01 NAME	01 NAME					
03 STREET ADDRES	SS (P.O. Box, RFD #	, etc.)	04 SIC CODE	03 STREET ADDR	03 STREET ADDRESS (P.O. Box, RFD #, etc.)				
D5 CITY		06 STATE	07 ZIP CODE	05 CITY	· · · · · · · · · · · · · · · · · · ·	06 STATE	07 ZIP CODE		
IV. TRANSPORT	ER(S)	· <u> </u>	<del>!</del>	A.	·····	I	<u> </u>		
01 NAME Modern Disposal	Services, Inc.		02 D+B NUMBER	01 NAME		······································	02 D+B NUMBER		
03 STREET ADDRES	S (P.O. Box, RFD #	, etc.)	04 SIC CODE	03 STREET ADDR	ESS (P.O. Box, RFD #	, etc.)	04 SIC CODE		
05 CITY Lewiston		06 STATE New York	07 ZIP CODE 14092	05 CITY		06 STATE	07 ZIP CODE		
O1 NAME	O1 NAME		02 D+B NUMBER	01 NAME	01 NAME				
03 STREET ADDRES	3 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDR	03 STREET ADDRESS (P.O. Box, RFD #, etc.)				
OS CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE		

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

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

			POTENTIAL HAZARDOUS WA	ASTE SITE	I.IDENTIFICATION	
1 8	įΕ	PA	SITE INSPECTION REP	ORT	O1 STATE	01 SITE NUMBER
			PART 10 - PAST RESPONSE ACT	IVITIES	New York	D042513754
11.			NSE ACTIVITIES			
	01 04	A. W	ATER SUPPLY CLOSED	02 DATE _	O3 AGENCY	
N/A				•		
	01	_ B. TI	MPORARY WATER SUPPLY PROVIDED	02 DATE	O3 AGENCY	
		DESCRI	PTION		•	
N/A		C 05	RMANENT WATER SUPPLY PROVIDED	03.045	O3 AGENCY	
	04	DESCRI	TION	UZ DATE	US AGENCY	-
N/A						
	01	D. SF DESCRIF	ILLED MATERIAL REMOVED	02 DATE	unknown 03 AGENCY	
	04	DESCRIP				
N/A	01	F. CC	NTAMINATED SOIL REMOVED	02 DATE	unknown 03 AGENCY	
	04	DESCRIP	TION	OE DATE	OTATIONI OJ AGENCI	
N/A					_	
	01 04	F. WA	STE REPACKAGED	02 DATE	03 AGENCY	
N/A						
	01	X G. WA	STE DISPOSED ELSEWHERE	02 DATE	1985 03 AGENCY	<del></del>
ĺ	•	DESCRIP				
Wast			the site were removed by Modern DispositE BURIAL	osal Services, 1	Inc. in 1988.	
		DESCRIP		UZ DATE	03 AGENCY	
N/A						
	01	1. IN DESCRIP	SITU CHEMICAL TREATMENT	02 DATE _	O3 AGENCY	
N/A	04	DESCRIP				
N/A	01	J. IN	SITU BIOLOGICAL TREATMENT	02 DATE	O3 AGENCY	
	04	DESCRIP	TION		OJ KOLINET	· · · · · · · · · · · · · · · · · · ·
N/A						
	01 04	K. IN DESCRIP	SITU PHYSICAL TREATMENT TION	02 DATE	03 AGENCY	
N/A						_
	01	L. EN	CAPSULATION	02 DATE	O3 AGENCY	
	U4	DESCRIP	TION			
N/A	01	N EN	ERGENCY WASTE TREATMENT	02 5175	O3 AGENCY	
	04	DESCRIP	TION	UZ DATE	US AGENCY	······································
N/A						
	01	N. CU DESCRIP	TOFF WALLS	02 DATE	O3 AGENCY	
N/A		PESCRIP				
N/A	01	O. EM	ERGENCY DIKING/SURFACE WATER DIVERSION	02 DATE	O3 AGENCY	·
	04	DESCRIP	TION			***************************************
N/A						
	01 04	P. CU DESCRIP	TOFF TRENCHES/SUMP	02 DATE	O3 AGENCY	
N/A						•
,	01	_ Q. SU	BSURFACE CUTOFF WALL	02 DATE	O3 AGENCY	
	04	DESCRIP	TION		· · · · · · · · · · · · · · · · · · ·	
N/A	EWA	באר יינוסאי	0-13 (7-81)	·		

			POTENTIAL HAZARDOUS	WASTE SITE	I.IDENTIFICATION	LIDENTIFICATION				
9	,Ε	PA	SITE INSPECTION R	EPORT	01 STATE	01 SITE NUMBER				
			PART 10 - PAST RESPONSE A	CTIVITIES	New York	0042513754				
II. F	AST	r RESPONSE	ACTIVITIES (Continued)							
	01	R. BARRI DESCRIPTIO	ER WALLS CONSTRUCTED	02 DATE	03 AGENCY					
	U4	DESCRIPTIO	N							
N/A		2 04001	TO A CONTRACTOR	AA DAYE	07.005.00					
	04	S. CAPPI DESCRIPTIO	NG/COVERING N	OZ DATE	US AGENCY					
N/A						• • •				
	01	T. BULK	TANKAGE REPAIRED	02 DATE	03 AGENCY					
		DESCRIPTIO	N							
N/A										
	01 04	U. GROUT DESCRIPTION	CURTAIN CONSTRUCTED	02 DATE	O3 AGENCY					
N/A										
	01	V. B0110	M SEALED	02 DATE	O3 AGENCY					
	04	DESCRIPTION	N							
N/A					· · · · · · · · · · · · · · · · · · ·					
	01 04	W. GAS CO DESCRIPTION	ONTROL N	02 DATE	O3 AGENCY					
N/A										
	01	_ X. FIRE (	CONTROL	02 DATE	03 AGENCY					
	04	DESCRIPTION	N	<del></del>						
N/A										
	01 04	Y. LEACH DESCRIPTION	ATE TREATMENT N	02 DATE	03 AGENCY					
N/A										
-	01	_ Z. AREA I	EVACUATED	O2 DATE	O3 AGENCY					
	04	DESCRIPTION	N		<del></del>					
N/A										
		X 1. ACCESS DESCRIPTION	S TO SITE RESTRICTED N	02 DATE19	987 03 AGENCY					
Site			the grounds are guarded.							
			ATION RELOCATED	O2 DATE	D3 AGENCY					
		DESCRIPTION				*				
N/A										
	01 04	3. OTHER DESCRIPTION	REMEDIAL ACTIVITIES	02 DATE	03 AGENCY					
N/A	<b>U</b> .,	VESUNE,	•	,						
17.5										
				•						
						•				
iv.	sou	JRCES OF IN	FORMATION (Cite specific references,	e.g., state files, sample analys	uis, reports)					
Prel	imin	nary Site As	sessment Report, January 1991, E	E.C. Jordan Co., and re	eferences cited therein.					
ļ										
İ										

## **₽** EPA

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

**PART 11 - ENFORCEMENT INFORMATION** 

ı	.I	D	E٢	V	T	IF	ı	C	A	T	10	1

01 STATE

01 SITE NUMBER

New York D042513754

**II. ENFORCEMENT INFORMATION** 

01 PAST REGULATORY/ENFORCEMENT ACTION  $\underline{\mathbf{X}}$  YES  $\underline{\phantom{\mathbf{X}}}$  NO

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

Phase I Investigation by Ecology and Environment Engineering, P.C., January 1990.

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

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

# APPENDIX C INTERVIEW DOCUMENTATION FORMS

E.C. Jordan Co. Work Assignment No. D002472-6 New York State Department of Environmental Conservation
Preliminary Site Assessments

#### INFORMATIONAL INTERVIEW

Job No:	6291-20	Date:	7/19/90				
Site:	Carborundum Building 82 Site	Telephone:	in-Person X				
			Dean E. Venturin, Manager				
Between:	Roger Bondeson	and:	Environmental Health & Safety				
•	E.C. Jordan Co.		Washington Mills Electro Minerals				
		Affiliation:	6				
			1 -04				
Signature:	Kayan Bonkson	Signature:	Dean & Junion				

The Carborundum Building 82 Site is now owned by Washington Mills Electro Minerals Corporation, a subsidiary of Washington Mills Abrasives. Property was purchased in December 1986.

Previous owners include Standard Oil 1981-1986; Kennocott Copper 1978-1981; and Carborundum 1901-1978.

All companies including current ownership manufactured abrasive grains from silicon carbide, aluminum oxide, and boron carbide.

Processes at the plant include crushing, bagging, and arc furnace processing.

The Carborundum Building 82 Site was used prior to 1985 to store wastes such as sand, fly ash, fire bricks, dust collector fines, kiln furniture made of ceramic materials, silicon carbide fines, and aluminum oxide fines.

The wastes stored at the Carborundum Building 82 Site were removed and diposed of by Modern Disposal Services, Inc. 1985.

Waste disposal practices since 1985 include the recycling of dust collector fines and scrap metal.

Other solid wastes are disposed of in the Modern Landfill. Dust fines consist of aluminum oxide (Al2O3).

Spent cleaning solvents used to rinse abrasive grains and waste oils in other areas of the plant are collected and removed by Safety Kleen and Tonawanda Tank.

Cleaning solvents used to rinse grains include methanol, toluene, and acetone. These solvents were not used near the Building 82 Site nor were they in contact with wastes previously sorted on the Building 82 Site.

The storage site is now used to store scrap metal, concrete, rubble, soil, pallets, and hoppers containing chunks of Al203.

Storm drain waters are discharged to the City of Niagara Falls storm sewer system in accordance with a SPDES permit issued by the city.

#### INFORMATIONAL INTERVIEW

Job No:	6291-20	Date:	7/19/90
Site:	Carborundum Building 82 Site	Telephone:	X
			Dean E. Venturin, Manager
Between:	Roger Bondeson	and:	Environmental Health & Safety
	E.C. Jordan Co.		Washington Mills Electro Minerals
		Affiliation:	
Signature:	Keep Bonkson	Signature:	Dun E Vitain
		Ĺ	

Noncontact cooling water is discharged into the Niagara River in accordance with a SPDES permit issued by NYSDEC.

The Carborundum Building 82 was used for the manufacture of abrasive crude from silicon carbide. Since 1981, Building 82 has been used for storage.

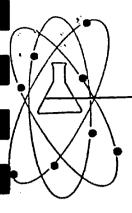
A concrete pit located on the southwest side of the waste storage area was constructed to contain transformer oil leaks from mobile tank trailers that were parked near the pit. The concrete pit was reportedly never used. A grab sample was taken from the pit several years ago and analyzed for PCB's. PCB's were not detected. The pit is currently covered with metal sheets and serves no function to plant operations.

The transformer located south of Building 83 of the Washington Mills Electro Minerals property contains less than 50 ppm of PCB.

Two underground storage tanks have been closed out in accordance with NYSDEC regulations. These tanks are not located in the waste storage area.

Chrome oxide is used by Washington Mills Electro Minerals to color final products such as grinding wheels. Chrome oxide is not stored or disposed of on the Carborundum Building 82 Site. As chrome oxide is used to color final products, no chrome oxide waste is produced.

# APPENDIX D PCB ANALYSIS FOR TRANSFORMER OIL CONTAINMENT PIT



# ACTS TESTING LABS, INC.

3900 Broadway • Buffalo, N.Y. 14227-1192 • (716) 684-3300

TECHNICAL REPORT 4-4893

August 27, 1984

Mrs. Jill Knickerbocker SCA CHEMICAL SERVICES

#### **OBJECT:**

Analysis of one "composited" sample for Polychlorinated Biphenyl (PCB's). Five samples were received on August 14, 1984 from Mrs. Jill Knickerbocker. The samples were labeled Carborundum Pit Samples and, were combined by this laboratory into one composite sample. PCB analyses were performed on both the Aqueous and Sludge Layers.

#### RESULTS:

165.

Aqueous Layer

Sludge Layer

PCB'S

0.0012 Milligrams per liter

0.55 Micrograms per gram Ly

Note: The PCB concentrations are reported as

Aroclor 1260.

or ppm

#### EXPERIMENTAL:

Five hundred Milliliters (Mls) of the Aqueous Layer were extracted three times with 60 Mls of Methylene Chloride, concentrated in a Kuderna-Danish apparatus to 2 Mls, crossed over into Hexane, re-concentrated to 2 Mls, reacted (cleaned) with Sulfuric Acid and Mercury, and two Microliters injected into a Shimadzu Gas Chromatograph.

The sludge layer (20 Grams) was extracted 16 hours in a Soxhlet apparatus with Methylene Chloride, concentrated to 2 Mls in a Kuderna-Danish Apparatus, crossed into Hexane, re-concentrated to 2 Mls, reacted with Sulfuric Acid and Mercury, and two Microliters injected into the Shimadzu Gas Chromatograph.

### ACTS TESTING LABS. INC.

Mrs. Jill Knickerbocker SCA CHEMCIAL SERVICES August 27, 1984
PAGE # 2
TECHNICAL REPORT # 4-4893

The Gas Chromatograph is equipped with a Ni-63, Electron Capture Detector which is monitored with a Shimadzu Microprocessor. A 25 Meter Silicone coated capillary column, held isothermally at 220° C, was used to effect separation. The chromatograph was calibrated with known concentrations of Aroclor 1260.

ACTS TESTING LABS, INC.

Elmer K. Gerbracht Technical Director

dl



CHEMICAL BERVICES

Receiving Laboratory:

NOTE:

PLEASE SUBMIT THIS FORM WITH ALL REPORTS!

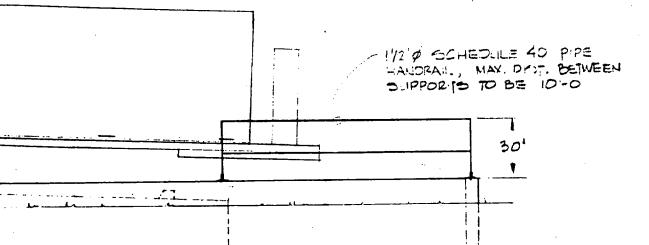
SCA CHEMICAL SERVICES, INC.

1550 Balmer Rd.

MODEL CITY, NEW YORK 14107

#### SAMPLERS (signature) ANALYSIS REQUIRED NO. OF SAMPLE TYPE TIME DATE STATION ATION CONTAINERS LOCATION MBER compositer grab 5 run PCBs on 8-3.84 water phase and on solids Phase Date/Time /a := Ar Received by: (signature) elinquished by: (signature) 8-14-84 Date/Time Received by: (signature) lelinquished by: (signature) 8-14-84 3:30 Date/Time Received by: (signature) elinquished by: (signature) Date/Time Received by: (signature) elinquished by: (signature) Date/Time Received by: (signature) Date/Time pispatched by: (signature) Method of Shipment:

HTARK TRULER SHOWN IN APROX. LOCATION (2000 GAL. STORAGE TANK)



SCALE: 14' 11-0"

REV.		CARBORUNDU ELECTRO MINERALS DIVISIO	
	SUBJECT- OIL	TANK STORAGE	PAD
		*V	
	LOCATION WEST	OF BUILDING 9	5 8 1970
	DRAWN 12 COFFEE	DATE-MAY, I	JOB NO.
1		DWG. NO. 5016	72

TC#-0035

CUST-SOHIO ELECTRO MINERALS CO CITY - NIAGARA FALLS NY SUB NAME SPARE TRANSFORMER UNIT - MOBILE OTHER -

ID4- 06460000 LOCATION - OUTDOOR!

MAP MFG- GE DATE MFS - S/N- CB63469 KVA- 1,500 PRI- 12,000 SEC- 480	EQUIP TYPE - TRA TRANS CLASS - IMPEDENCE - S PHASE/CYCLE - 3/6 LIQUID TYPE - OIL GAL LIQUID -	. <b>941</b> 0			RADIAT FANS H20 CC GIL PI TOP FI BOTTOI	- DOLED - UHPS -	ADDITIONA YES NO NO NO 1.00 INCH .50 INCH	AL EQUIPMEN CONSERVAT TAP CHANG BUSHING L RECLAINER POWER V/A OTHER ACC	OR- NO SER- NO .OC- SID R -	E	
	VISUAL INSPECT	ON .		:	DATE OF	1242		1260	TOTAL		*****
PAINT CONDITION-FAIR	LEAKS-NONE			*	5ERVICE 11/02/79		R AROCLOR	ARDCLOR 18	CONTENT 18		
	FIELD SERVICE			* * *	COLO	R LABEL	- GREEN	CLASS -			
		LIQUID	SCREEN T	EST D	ATA			.,	<u></u>		
DATE LEV 4/00/75	EL TEMP P/V	ACID IF	•	DIEL 40 A		COLOR 0.75 AC		_	AC	SEDIMENT NONE	AC 2A

DATE	LEVEL	TEMP	P/V	ACID	IFT			DIEL		COLOR		SP. GR.		VISUAL		SEDIMENT		
				.040	AC	32.2	AC	40	AC		0.75	AC	0.886	AC	CLEAR	AC	NONE	AC
4/00/75				• • • • •								•••	0.880	AC	CLEAR	AC	MONE	AC
3/00/76				.020	AC	31.4	QU	45	AC		0.75	AC		HL				
1/00/78				.020	AC	32.8	AC	45	AC		0.75	AC	0.880	AC	CLEAR	AC .	NONE	AC
*******				.020	AC	32.7	AC	41	AC		0.75	AC	0.880	AC	CLEAR	AC	NORE	AC .
12/00/78											0.75	AC	0.880	AC	CLEAR	AC	NONE	AC
10/00/79				.040	AC	37.9	AC	39	AC		V.75	MU			•			
10/00/80				.030	AC	35.6	AC	40	AC		0.75	AC	0.880	AC	CLEAR	AC	NONE	AC
				.020	AC	36.4	AC	37	AC		0.75	AC	0.880	AC	CLEAR	AC	NONE	AC
10/00/81				. 420	HC							A.00		40	CI EAD	AC	NONE	3A
11/00/82				.020	AC	36.8	AC	36	AC		1.00	AC	0.880	AL	CLEAR	MU	,	
				.020	AC	37.8	AC	27	QU		1.00	AC	0.880	AC	CLEAR	AC	NONE	AC
10/12/83	NORMAL.	50 C	0.0	.020	HL	31.0	H		-		• • • •	•			CLEAR	AC	NONE	AC
10/10/84	MARGON	20 C	0.0	.030	AC	36.6	AC	37	AC		1.00	AC	0.880	AC	CLEAR	AC	NUNE	an.

COMMENTS TRANSFORMER DIL TEST DATA ACCEPTABLE, HOWEVER STUDIES INDICATE OXIDATION BY-PRODUCTS TRAPPED IN INSULATION.

#### GAS-IN-DIL ANALYSIS/GAS CHRONATOGRAPHY EXPRESSED IN PPH

TOTAL TOTAL CARBON CARBON HYDROGEN OXYGEN HITROGEN METHANE MONOXIDE DIDXIDE. ETHANE ETHYLENE ACETYLENE COMBUSTIBLE CAS EVALUATION DATE

THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND

SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.