SINGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE I INVESTIGATION

Airco Speer Carbon City of Niagara Falls

Site No. 932002 Niagara County

Date: January 1986



Prepared for: New York State Department of Environmental Conservation

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

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

By:

In Association With
DAMES & MOORE

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

AIRCO SPEER CARBON-GRAPHITE

4861 PACKARD ROAD

NYS SITE NUMBER 932002

CITY OF NIAGARA FALLS

NIAGARA COUNTY

NEW YORK STATE

Prepared For

DIVISION OF SOLID AND HAZARDOUS WASTE
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
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AIRCO SPEER CARBON-GRAPHITE

TABLE OF CONTENTS

		Page
SECTION I	EXECUTIVE SUMMARY	I-1
	Site Location Map	I - 5
	Site Plan	I - 6
SECTION II	PURPOSE	II-1
SECTION III	SCOPE OF WORK	III-1
SECTION IV	SITE ASSESSMENT	IV-1
	Site History	IV-1
	Site Topography	IV-2
	Site Hydrology	IV-3
	Site Contamination Sampling Locations	IV-5 IV-8
SECTION V	PRELIMINARY APPLICATION OF HAZARD RANKING SYSTEM	V-1
	Narrative Summary	
	Site Location Map	
	HRS Worksheets	,
	HRS Documentation Records and References	
	Potential Hazardous Waste Site -	
	Preliminary Assessment Potential Hazardous Waste Site -	
	Site Inspection Report	
SECTION VI	ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS	VI-1
	Assessment of Data Adequacy	VI -1
	Phase II Work Plan	VI-1
	Phase II Cost Estimate	VI-3
APPENDIX A	REFERENCES	
	Sources Contacted	
	Documentation	
APPENDIX B	PROPOSED UPDATED NYS REGISTRY	

SECTION 1

EXECUTIVE SUMMARY AIRCO SPEER CARBON-GRAPHITE

This report, prepared for the New York State Department of Environmental Conservation (NYSDEC), presents the results of the Phase I investigation of the Airco Speer Carbon-Graphite Site (NYS Site Number 932002, EPA Site Number D980201263) located in Niagara Falls, Niagara County, New York (see Figure I-1).

SITE BACKGROUND

The plant site, approximately 2-acres in size, is owned by the Airco Speer Carbon-Graphite Company (see Figure I-2). Prior to 1920, the site was owned by the International Graphite and Electrode (IGE) Company. In 1930, the Speer Carbon and Exelon Companies each purchased half ownership of the IGE Company. The Speer Carbon Company assumed full ownership of the graphite plant in 1932 (NCHD, 1981). Speer Carbon became a subsidiary of Airco in 1961 and a Division in 1962. In 1978, Airco became a subsidiary of BOC International.

Prior to 1920, the IGE Company disposed of wastes on-site from the graphitizing operations. No detailed records exist, but the wastes are presumed to be similar to those presently generated. From 1930 to 1954, under the ownership of the Airco Speer Company, industrial wastes including carbonaceous furnace insulation, spent refractories (brick, concrete block and sand) obsolete equipment, linseed oils, coal tar chemicals, and asbestos fibers were disposed on-site (NYSDEC, 1978). These materials were used as fill to bring the low lying areas of the plant to grade. Due to continued plant expansion since 1930, the fill

area has been covered by the construction of manufacturing buildings and paving of the site with either concrete or asphalt (NCHD, 1981). All portions of the former disposal area are presently covered.

The fill site reached capacity in 1954 and all wastes generated at the plant since that time have been contract hauled off-site to either the Union Carbide Dump (1954-1964), (presently operated by Newco), Modern Disposal's Model City Landfill (1964-1972), Newco Landfill (1972-1981) and Modern City Disposal Company (1981 to present).

Soil samples, collected by the USGS in 1983, detected organic priority and non-priority pollutants (USGS, 1983). Most of the contaminants detected were identified as polynuclear aromatic hydrocarbons (PAH's) which are known to be present in coal tars (Airco Speer Carbon-Graphite, 1985).

ASSESSMENT

In an attempt to quantify the risk associated with this site, the Hazard Ranking Scoring system (HRS) was applied as currently being used by the NYSDEC to evaluate abandoned hazardous waste sites in New York State. This system takes into account the types of wastes at the site, receptors, and transport routes to apply a numerical ranking of the site. As stated in 40 CFR Subpart H Section 300.81, the HRS scoring system was developed to be used in evaluating the relative potential of uncontrolled hazardous substance facilities to cause health or safety problems or ecological or environmental damage. It is assumed by the EPA that a uniform application of the ranking system in each state will permit EPA to identify those releases of hazardous substances that pose the greatest hazard to humans or the environment.

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

- S_M reflects the potential for harm to humans or the environment from migration of a hazardous substance away from the facility by routes involving groundwater, surface water or air. It is a composite of separate scores for each of the three routes (S_{GW} = groundwater route score, S_{SW} = surface water route score, and S_A = air route score).
- o $S_{\mbox{\it FE}}$ reflects the potential for harm from substances that can explode or cause fires.
- o SDC reflects the potential for harm from direct contact with hazardous substances at the facility (i.e., no migration need be involved).

The preliminary HRS score was:

$$S_{M} = 4.82$$
 $S_{A} = 0$

$$S_{GW} = 8.35$$
 $S_{FE} = 0$

$$S_{SW} = 0$$
 $S_{DC} = 0$

The only score with a non-zero value is the groundwater migration score (and accompanying averaged migration score). This score reflects the high toxicity and persistence of one of the suspected contaminants and the unlined condition of the landfill.

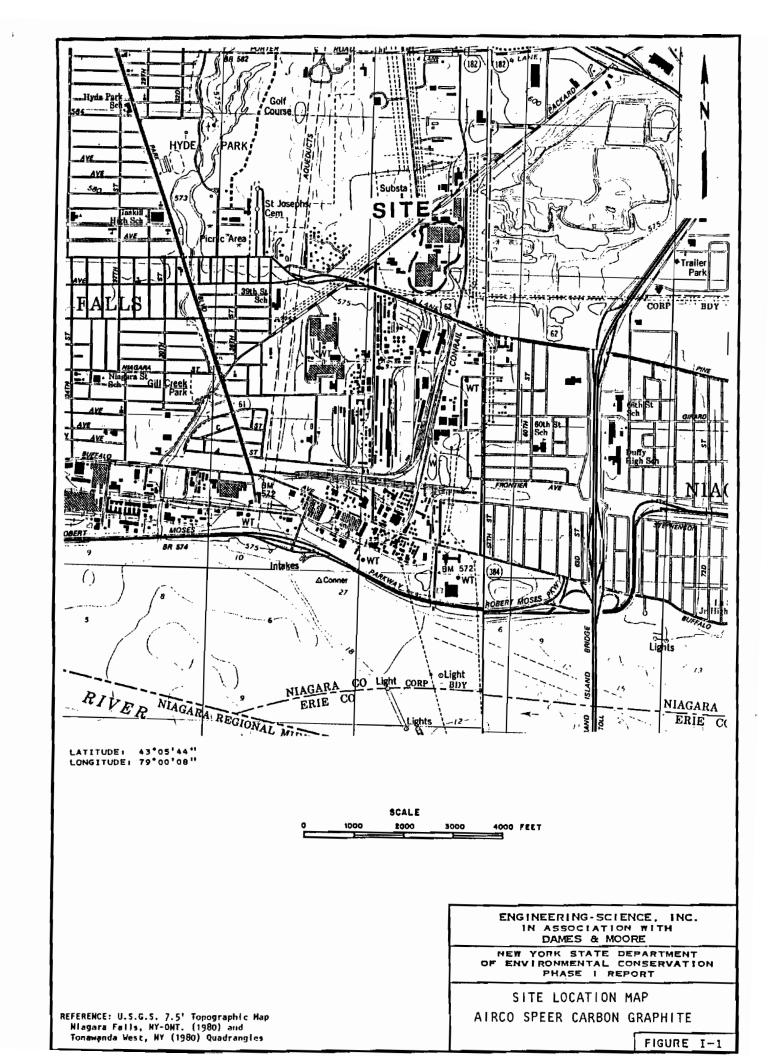
RECOMMENDATIONS

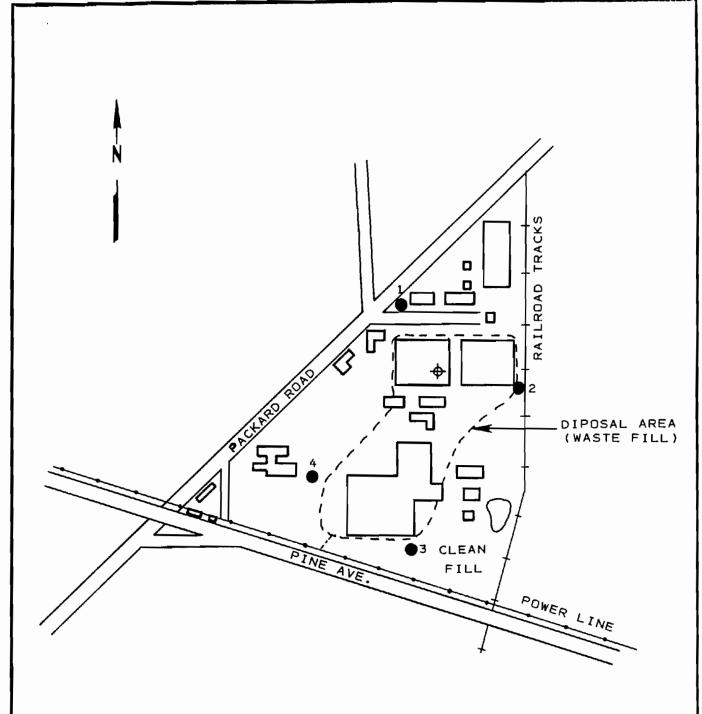
The following recommendations are made for the completion of Phase II:

- Ground water monitoring system consisting of one upgradient and three downgradient wells.
- Sample analyses to include priority pollutants (pesticides not included).

The estimated man-hour requirements to complete Phase II are 523, while the estimated cost is \$35,875.

NOTE: Additional data may become available from an EPA study conducted during the summer of 1985 at the site. This information may be of use in revising or amending the Phase II recommendations.





NOT TO SCALE

EXPLANATION:

■ 1 U.S.G.S. TEST BORING

POSSIBLE FORMER SPRING

ENGINEERING-SCIENCE, INC. IN ASSOCIATION WITH DAMES & MOORE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE | REPORT

> PLOT PLAN AIRCO SPEAR CARBON

> > FIGURE 1-2

SECTION II

PURPOSE

The purpose of the Phase I program at the Airco Speer Carbon-Graphite site was to assess the hazard to the environment caused by the present condition of the site. This assessment is based on the Hazard Ranking System, which involves the compilation and rating of numerous geological, toxicological, environmental, chemical, and demographic factors and the calculation of an HRS score. Details of HRS implementation are included in Section V. During the initial portion of the investigation, available data and records, combined with information collected from a site inspection, were reviewed and evaluated. investigation at this site focused on the on-site disposal of carbonaceous debris, asbestos and coal tars. Based on this initial evaluation of the Airco Speer Carbon-Graphite site, a Phase II Work Plan has been prepared for collecting any additional data needed to complete the HRS In addition, a cost estimate for the recommended Phase II work is provided.

SECTION III

SCOPE OF WORK

The scope of work for the New York State Inactive Site Investigation Program (Phase I) was to collect and review all available information necessary for the documentation and preparation of a Hazard Ranking System score and a Phase II work plan and cost estimate if required. The work activities performed included data collection and review, a site inspection, and interviews with knowledgeable individuals of past and present disposal activities at the site.

The sources contacted during this Phase I investigation included government agencies (federal, state and local), present site owners and operators, and any other individuals that may have knowledge of the site, as identified during the performance of the investigation. These sources are listed in Appendix A. The intent of the list is to identify all persons, departments, and/or agencies contacted during the third round of the Phase I investigations even though useful information may not have been collected from each source contacted.

SECTION IV

SITE ASSESSMENT

SITE HISTORY

The present Airco Speer Carbon-Graphite Company plant site located, in Niagara Falls, Niagara County, New York State, was owned prior to 1920 by the International Graphite and Electrode (IGE) Company. The IGE Company disposed of wastes generated from the plant's graphitizing operations on-site, however, detailed records concerning the type and quantity of wastes do not exist. The wastes disposed on-site prior to 1930 would probably be similar in nature as the waste materials presently generated (NCHD, 1981).

In 1930, the Speer Carbon and Exelon Companies each purchased fifty (50) percent ownership of the IGE Company. The Speer Carbon Company subsequently assumed full ownership of the facility in 1932. In 1930 to 1954, the Speer Carbon Company was still engaged in producing graphite and added oil and pitch treatment facilities. During this time period, the company generated wastes including: carbonaceous furnace insulation, spent refractories (brick and concrete blocks) and sand, obsolete equipment, linseed oil, coal tar chemicals and asbestos fiber. All of these materials were disposed in a fill area on-site (NCHD, 1981 and NYSDEC, 1978).

The on-site landfill reached its capacity in 1954. Subsequently, the plant's generated wastes were contract hauled off-site to the Union Carbide dump located in the Town of Niagara (presently operated by Newco Waste Systems). These disposal practices continued until 1964, at which time Modern Disposal Services transported the generated wastes to its

Model City disposal facility. These disposal practices continued until 1972.

Speer Carbon became a subsidiary of Airco in 1961 and a division in 1962. In 1978, Airco became a subsidiary of BOC International. The wastes generated at Speer Carbon from 1972 to approximately 1981, were contract hauled by Cerrone and Niagara Sanitation to the Newco disposal facility. Presently, the wastes are disposed by Modern Disposal Company (NCHD, 1981).

A site inspection conducted by the Niagara County Department of Health (NCDOH) in June 1981, noted that almost all of the previous disposal site was paved with either asphalt or concrete. Furthermore, the plant's buildings, including several of the graphite and bake plants, were located over areas previously used for waste disposal.

SITE TOPOGRAPHY

The Airco Speer Carbon-Graphite site is located in the City of Niagara Falls, Niagara County, New York State. The original ground surface sloped to the south. However, due to past filling, the ground surface at the present time is relatively flat. The original ground surface can be seen sloping to the south from the roads which surround the site. There are no surface water bodies on the site. All surface runoff flows to the municipal sewer system.

The triangular site is located in an industrial section of Niagara Falls. South of the site is Pine Avenue, along which are located the industrial plants of Union Carbide and Niacet. Southwest of the site is Nitec Paper. West of the site is a Niagara Mohawk transformer station. Reichold Chemical/Frontier Foundries and Pyron Metals. Railroad tracks form the eastern boundary of the site, east of which is the CECOS Niagara Falls landfill operated by BFI. South of the CECOS landfill and southeast of the Airco Speer Carbon-Graphite site is Great Lakes Carbon plant. There are no known private wells in use near the site.

Local Sensitive Environments

There are no New York State recognized wetlands nor critical habitats for endangered species near the site.

SITE HYDROLOGY

This summary of site hydrogeology is based on information from USGS Topographic Maps, NYS Museum & Science Service Bedrock Geology Map and Quaternary Map, Johnston (1964), drilling information from USGS (1982) at Airco Speer Site, drilling information from Empire Soils Investigation Logs (1973) and Rochester Drilling Company Logs (1980), summaries by M. Hopkins of NCDOH, and Bergeron (1984).

Regional Geology and Hydrology

The site is located in the Erie-Ontario lowlands physiographic province. The bedrock of this region is predominantly limestone, dolostone, and shale. Most of the rocks are deep aquifers with regional flow to the south.

In the recent past, most of New York State, including the site, has been repeatedly covered by a series of continental ice sheets. The activity of the glacier widened pre-existing valleys, and deposited widespread accumulations of till. The melting of ice, ending approximately 12,000 years ago, produced large volumes of meltwater; this water subsequently shaped channels and deposited thick accumulations of stratified, granular sediments.

As glacial ice retreated from the region, meltwater formed lakes in front of the ice margin. This region is covered by lake sediments, the most recent being from Lake Iroquois (a larger predecessor to Lake Ontario) and from Lake Tonawanda (an elongate lake which occupied an east-west valley and drained north into Lake Iroquois). The sediments consist of blanket sands and beach ridges which are occasionally underlain by lacustrine silts and clays (indicating quiet or deeper water deposition).

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

Site Hydrogeology

Bedrock beneath the site is expected to be Lockport Dolomite, occurring at depths of 2 to 8 feet across the site. The expected elevation of this surface is between 570' to 580' (MSL). The slope on the rock surface may be south-southwest, roughly parallel to the Gill Creek drainage pattern. An off-site well located on Lockport Road (approximately 2 miles from the site) (identified by Johnson as 307-900-6 and sampled as VO1 in previous Town of Niagara Landfill studies) taps groundwater in the upper part of the dolomite bedrock. This water was found to be salty.

Soils above the top of the bedrock are expected to be generally as follows based on USGS borings completed in 1982:

<u>Unit</u>	Depth of Range (ft.)
Topsoil	0 - 2
Reddish clay with varying amounts of sand	2 - 8
Top of rock	2 - 8

Due to the low permeability of most of these soils, (assumed to be 10^{-5} cm/sec to 10^{-7} cm/sec for HRS scoring) there is not expected to be a soil aquifer on-site. However, the soil/bedrock interface may yield some quantity of ground water.

SITE CONTAMINATION

Airco Speer Carbon-Graphite landfilled graphite plant waste on-site from 1930 to 1954. The type and quantity of waste disposed of on-site included 86,000 cubic yards of carbonaceous granules and dust, bricks, concrete and sand, 2,500 gallons of linseed oil and coal tar and 7 tons of asbestos. Miscellaneous plant refuse were also landfilled on-site. Presently, the former landfill area is covered by plant manufacturing facilities (NYSDEC, 1978).

The USGS collected soil samples from four test boring sites in July 1982. The samples were recollected in May 1983 since the holding time for the previously collected samples was exceeded. The soil samples were analyzed for organic priority and non-priority pollutants. Four-teen priority pollutants and five non-priority pollutants were identified. (USGS, 1983). Most of the pollutants are identified as polynuclear aromatic hydrocarbons (PAHs). The analytical results for the pollutants identified are presented in Table IV-1. A plot plant depicting the soil sampling locations is provided in Figure IV-1.

According to Airco Speer, the coal tar pitch is a binding agent used in the graphitizing process and contains several PAHs. Some waste coal tar was disposed in the landfill and it is possible that this landfill constituent is the source of the PAH contamination found in the USGS well boring samples. However, other by-products from the production of graphite products could also generate PAH's. In addition to PAHs, the coal tar contains benzene, toluene, xylene, phenol, pyridine, thiophene, and ammonia (Airco Speer Carbon-Graphite, 1985).

The PAHs and other suspected landfill pollutants pose a potential source of contamination to the ground water. A perched water table may attain seasonal high levels of less than 6 inches below the pre-fill surface (NCHD, 1981). The presence of PAHs in well borings adjacent to \$\tilde{\psi}\$ the site suggests ground water migration of pollutants from the unlined landfill (USGS, 1983). However, no direct evidence of ground water contamination is available.

In the period 1939 to 1956, graphite plant and bake plant buildings were built over the landfill (NCDOH, 1981). More recently, the remainder of the landfill site has been paved with concrete and asphalt and a surface runoff diversion system has been installed. The surface runoff is channeled into the city sanitary sewer and treated at a local wastewater treatment plant. Therefore, the potential for contamination of surface waters is limited.

HNU meter readings were taken during a recent site inspection (ES and D&M, 3/27/85) and all measurements were less than 1 ppm.

The site is enclosed by a fence and a 24-hour security system continuously monitors entry to the facility.

TABLE IV-1
SUMMARY OF SOIL ANALYSIS FOR AIRCO SPEER CARBON-GRAPHITE

Parameter (mg/kg)	2A	Sample Collection Sites 3A	4 A
INORGANIC COMPOUND			
Molecular Sulfur	3.0		
ORGANIC COMPOUNDS			
Priority Pollutants			
Pyrene	8.0	LT	32.0
Acenaphthene			LT
Fluoranthene	9.1		34.0
Benzo(a)anthracene	7.1		24.0
Benzo(a)pyrene	7.9		49.0
3,4-benzofluoranthene	13.0		43.0
Chrysene	5.6		23.0
Acenaphthylene	LT		LT
Anthracene	LT		2.0
Benzo(ghi)perylene	4.6		13.0
Fluorene	LT		LT
Phenanthrene	4.0		19.0
Dibenzo(a,h)anthracene			12.0
Indeno(1,2,3-cd)pyrene	30.0		61.0
Non-Priority Pollutants			
Dibenzofuran	LT		LT
Carbonsulfide	LT		
Methylphenanthrene			2.0
Benzo(b)napthothiophene			2.0
Methylbenzo(a)anthracene a			2.0

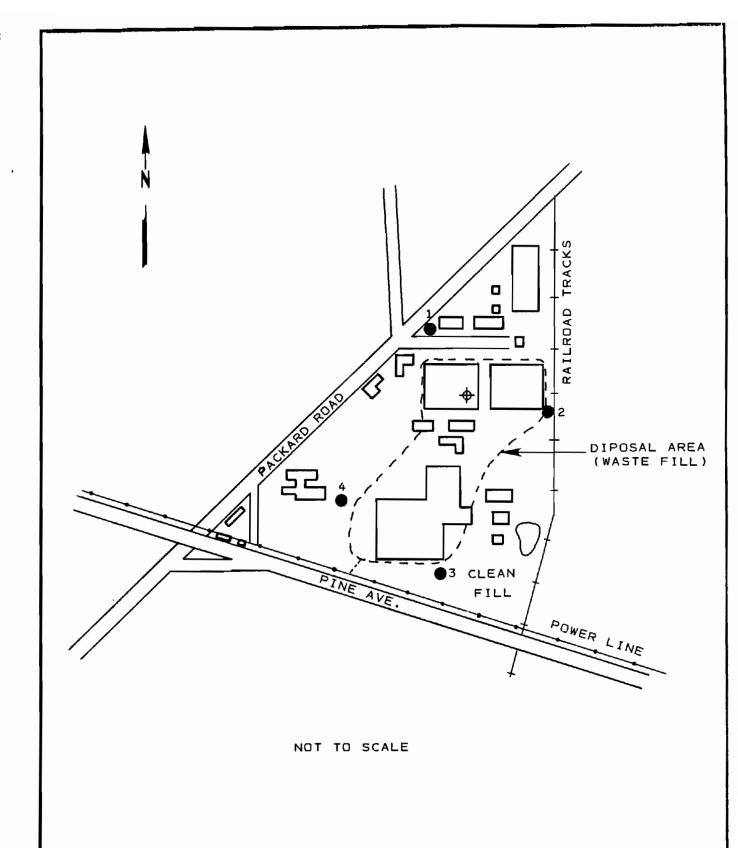
SOURCE: USGS Study Draft Report, 1983.

LT Constituent found but below the quantifiable detection limit.

-- Indicates not detectable.

a Samples collected 5/27/83.

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



EXPLANATION:

● 1 U.S.G.S. TEST BORING

POSSIBLE FORMER SPRING

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> PLOT PLAN AIRCO SPEAR CARBON

> > FIGURE IV-1

PRELIMINARY APPLICATION OF HAZARD RANKING SYSTEM

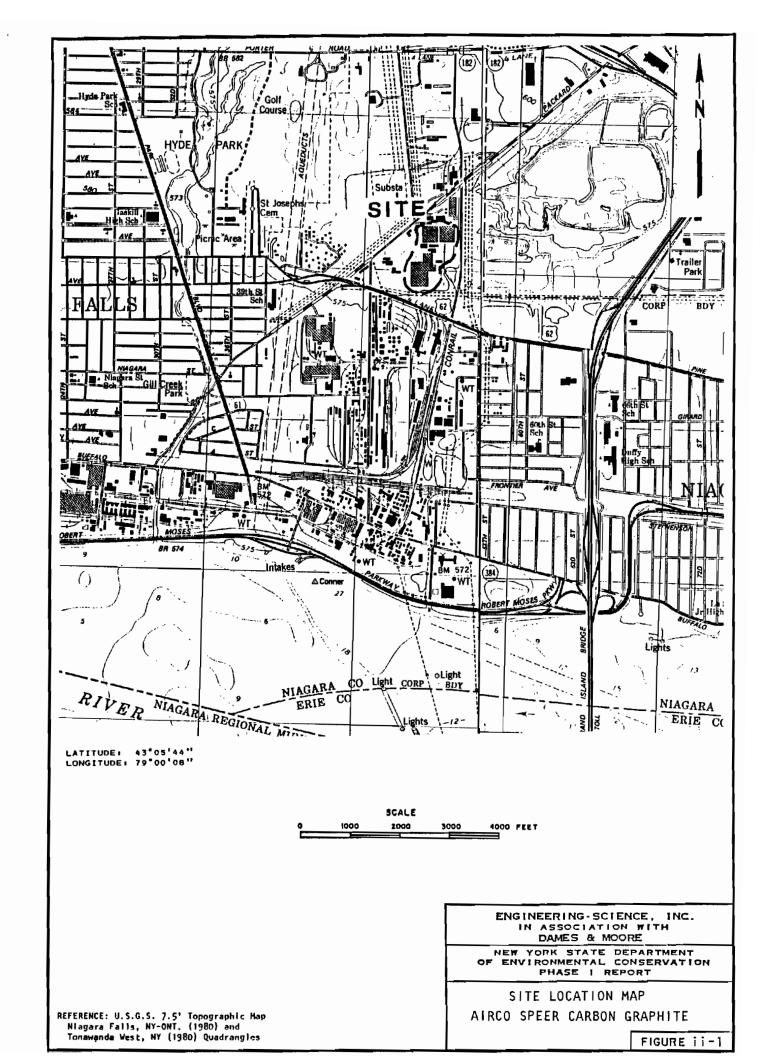
NARRATIVE SUMMARY

The approximately 2-acre Airco Speer Carbon-Graphite landfill site is located under the Speer Carbon manufacturing facility within the City of Niagara Falls, Niagara County, New York. Speer Carbon has owned the site from 1930 to present.

From 1930 to 1954, Speer Carbon disposed of approximately 86,000 cubic yards of carbonaceous granules and dust, bricks, concrete, and sand, 2500 gallons of linseed oil and coal tar, and 7 tons of asbestos in an on-site landfill (NYSDEC, 1978 and Airco Speer Carbon-Graphite, 1985). Samples collected from soil borings adjacent to the landfill contained fourteen priority pollutants and five non-priority pollutants (USGS, 1983). Most of the pollutants are polynuclear aromatic hydrocarbons (PAHs). The coal tars disposed of in the landfill, could be the source of PAH contamination detected in the USGS soil boring samples; however, other by-products from the production of graphite products could also generate PAH's (Airco Speer Carbon-Graphite, 1985).

From 1939 to 1956, manufacturing buildings were constructed over the landfill (NCHD, 1981). Recently, the remainder of the landfill has been paved with concrete and asphalt and a surface runoff system channels runoff into a sanitary sewer system.

HNu meter readings were less than 1 ppm over the landfill area, indicating a lack of air contamination (ES and D&M site inspection, 1985).



HRS COVER SHEET

Facility Name: Airco Speer Carbon-Graphite

Location: Niagara Falls, Niagara County, New York

EPA Region: II

Person(s) in charge of facility: Ron Spears, Director of Environmental

Control Department

Name of Reviewer:

John A. Botts

Date:

4/15/85

General description of facility:

From 1930 to 1954, Speer Carbon generated wastes from graphitizing, oil, pitch treatment, baking, mixing, and extrusion operations to produce graphite electrodes. Approximately 86,000 cubic yards of carbonaceous granules and dust, bricks, concrete, and sand, 2,500 gallons of linseed and coal tar, and 7 tons of asbestos were disposed in the on-site landfill. The landfill has subsequently been covered the construction of facility buildings, concrete and asphalt. Surface runoff is diverted to a sewer system serving a local wastewater treatment plant. Soil samples collected adjacent to the disposal site contained concentrations of PAH's.

Scores:

$$S_{M} = 4.82 (S_{qw} = 8.35 S_{sw} = 0 S_{a} = 0)$$

S_{FF} = 0

 $s_{DC} = 0$

Facility Name: AIRIO SPEER CARBON-GRAPHITE Date: 4-15-85 Ground Water Route Work Sheet Assigned Value Multi-Max. Ref. Rating Factor Score (Circle One) plier Score (Section) 1 Observed Release ത 0 45 45 3.1 If observed release is given a score of 45, proceed to line [4.] If observed release is given a score of 0, proceed to line 2. 2 Route Characteristics 3.2 Depth to Aquifer of 0 1 2 (3) 6 Concern Net Precipitation 3 Permeability of the 3 Unsaturated Zone Physical State 1 3 0 1 2 Total Route Characteristics Score 15 12 3 Containment 3 0 1 2 (3) 1 3 3.3 4 Waste Characteristics 3.4 18 18 Toxicity/Persistence 0 3 6 9 12 15 18 0 1 2 3 4 5 6 7 8 Hazardous Waste Quantity Total Waste Characteristics Score 19 26 5 Targets 3.5 0 (1) 2 Ground Water Use 40 Distance to Nearest n (4) 6 8 10 Well/Population 12 16 18 20 Served 24 30 32 35 40 Total Targets Score 49 6 If line 1 is 45, multiply $1 \times 4 \times 5$ If line 1 is 0, multiply $2 \times 3 \times 4 \times 5$ 4788 57,330 8.35 Divide line 6 by 57,330 and multiply by 100

GROUND WATER ROUTE WORK SHEET

Surface Water Route Work Sheet Assigned Value Multi-Ref. Max. Rating Factor Score (Circle One) plier Score (Section) 1 Observed Release \odot 45 0 45 4.1 If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2. Route Characteristics 4.2 **(6)** 1 2 3 Facility Slope and 0 3 Intervening Terrain 1-yr. 24-hr. Rainfall Distance to Nearest Surface Water 3 0 1 2 (3) Physical State 3 Total Route Characteristics Score 15 7 3 Containment 0 **(0)** 1 2 3 1 3 4.3 4 Waste Characteristics 4.4 **(1)** 3 6 9 12 15 18 Toxicity/Persistence 0 18 (0)12345678 1 0 8 Hazardous Waste Quantity Total Waste Characteristics Score 26 5 Targets 4.5 6 Surface Water Use Distance to a Sensitive (0) 1 2 3 0 Environment (6) 4 6 8 40 Population Served/ 12 16 18 20 Distance to Water Intake Downstream 24 30 32 35 40 Total Targets Score 55 6 If line 1 is 45, multiply 1 x 4 x 5 0 If line 1 is 0, multiply $2 \times 3 \times 4 \times 5$ 64,350 7 Divide line 6 by 64,350 and multiply by 100

Facility Name: AIRCO Speer Carbon-Graphite Date: 4-15-85

SURFACE WATER ROUTE WORK SHEET

Air Route Work Sheet									
Rating Factor	Assigne (Circl	d Value e One)	Multi- plier	Score	Max. Score	Ref. (Section)			
1 Observed Release	0	45	1	0	45	5.1			
Date and Location:	3/85								
Sampling Protocol:	HNU S	Survey							
If line 1 is 0, the	s _a = 0. Ent	er on line [5 .						
2 Waste Characteristics		_				5 .2			
Reactivity and	⑥ 1	2 3	1	0	3				
Incompatibility Toxicity Hazardous Waste		2 3 3 4 5 6 7 8	3	0	9 8				
Total Wast	e Character	istics Score		0	20				
3 Targets						5.3			
Population Within	0 9	12 15 18	1	21	30				
4-Mile Radius Distance to Sensitive	(21) 24	12 15 18 27 30 2 3	2	0	6				
Environment Land Use	0 1	2 ③	1	3	3	-1			
Total Tar		24	39						
4 Multiply 1 x 2 x 3					35,100				
5 Divide line 4 by 35,	100 and mul	tiply by 100		s _a = o					

AIR ROUTE WORK SHEET

Facility Name: ARCO SPEER CARBON-GRAPHITE Date: 4-15-85

Worksheet for Computing S_{M}

	s	s ²
Groundwater Route Score (S _{gw})	8.35	69.72
Surface Water Route Score (S _{sw})	0	0
Air Route Score (S _a)	0	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$		69.72
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		8. 3 5
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		4.82

WORK SHEET FOR COMPUTING SM

Fire and Explosion Work Sheet									
Rating Factor		signed Circle			Multi- plier	Score	Max. Score	Ref. (Section)	
Containment	1	3			1		3	7.1	
2 Waste Characteristics								7.2	
Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity	0 0		3 3 3 5 6	78	1 1 1 1	·	3 3 3 8		
Total Wast	e Cha	racter	istic	s S	core		20		
Targets Distance to Nearest 0 1 2 3 4 5 1 Population							5	7.3	
Distance to Nearest Building	0	1 2	3		1		3		
Distance to Sensitive Environment	0 1	1 2	3		1		3		
Land Use Population Within 2-Mile Radius	0 1 0 1	2 2	3 3 4	5	1 1		3 5		
Buildings Within 2-Mile Radius	0 1	1 2 :	3 4	5	1		5		
Total Targets Score							24	·. 	
4 Multiply 1 x 2 x 3							1,440		
5 Divide line 4 by 1,440 and multiply by 100						S _{FE} =	0		

FIRE AND EXPLOSION WORK SHEET

Facility Name AIRCO SPEER CARBON - GRAPHITE Date 4-15-85

	Direct Contact	Work She	et				
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)		
1 Observed Incident	0 45	1	0	45	8.1		
If line 1 is 45, pro							
2 Accessibility	<pre>0 1 2 3</pre>	i	0	3	8.2		
Containment	0 15	1	٥		8.3		
Waste Characteristics Toxicity	0 1 2 3	5	15	15	8.4		
5 Targets					8.5		
Population Within 1-Mile Radius Distance to a Critical Habitat	5 4	/6 .6	20 12				
Total Targets Score 16 32							
6 If line 1 is 45, multiply 1 x 4 x 5							
7 Divide line 6 by 21	,600 and multiply b	y 100	s _{DC} =	. 0			

DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

FACILITY	NAME:	Airco	Speer	Carbon	n-Graphi	te				
					_					
LOCATION:	City	of Nia	gara	Falls.	Niagara	County.	New 3	fork		

GROUNDWATER ROUTE

. OBSERVED RELEASE

Contaminants detected (5 maximum):

No ground water samples analyzed for contamination (NYSDEC Registry Sheet, 12/83).

Rationale for attributing the contaminants to the facility:

Not applicable.

* * *

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) in concern:

Bedrock aquifer.

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

Approximately 6" (NCHD Site Profile, 1981.)

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

Approximately 6' (USGS, 1982 and ES and D&M site inspection, 3/21/85).

Net Precipitation

U.S. Dept. of Commerce, National Climatic Center, Climatic Atlas of the United States, 1979).

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

Mean annual precipitation is 36".

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

Mean annual lake evaporation is 27".

Net precipitation (subtract the above figures):

$$9" (36" - 27" = 9").$$

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

- 1. Miscellaneous fill of unknown composition, appearing to contain large (up to 6 feet thick) amounts of carbon particles and fines. (NCDOH Site Profile, 1981).
- Canandaigua or Odessa series lake-laid silt clay present at a depth of > 6'. Soils of these series exhibit a profile of silty clay loam over clay.

Permeability associated with soil type

Fill - granular - 10⁻³ cm/sec. Soil, clay - 10⁻⁵ cm/sec to 10⁻⁷ cm/sec

(Freeze, R.A., and J.A. Cherry, Ground Water, 1979 and ES and D&M site inspection, 3/21/85).

Physical State

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

Furnace insulation, refractories, sand, carbon materials, obsolete equipment, linseed oil, coal tar, and asbestos fiber.

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Plant wastes disposed in unlined fill area on-site (ES and D&M site inspection, 3/21/85).

Method with highest score:

Unlined landfill.

WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Asbestos

Polynuclear aromatic hydrocarbons

Benzene

] suspected in landfill due to presence of coal tar pitch Phenol

Toluene

(NYSDEC, 1978 and USGS, 1983)

Compound with highest score:

Benzo(a)pyrene - 18 (toxicity = 3, persistence = 3).

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Quantity unknown - coal tar chemicals known to be disposed on-site. However, for purposes of rating the site, 1 to 10 cubic yards of hazardous waste were assumed to be disposed of on-site.

Basis of estimating and/or computing waste quantity:

NYSDEC Registry Sheet, 12/83.

5. TARGETS

Groundwater Use

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

Industrial well supplies a Buffalo Avenue industry, 2 miles south of site.

Distance to Nearest Well

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

2400 Buffalo Avenue.

Distance to above well or building:

2.25 miles.

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

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

An industrial well, 2.25 miles southwest of site. Water used for cooling processes (Hopkins, 8/85).

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

No irrigation wells within 3 miles of site (ES and D&M site inspection, 3/21/85).

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

Estimate 10 factory workers are exposed to industrial well water (ES and D&M site inspection, 3/21/85, M. Hopkins, 8/85).

SURFACE WATER ROUTE

1. OBSERVED RELEASE

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

Surface water not analyzed for contamination (NYSDEC Registry Sheet, 12/83).

Rationale for attributing the contaminants to the facility:

Not applicable.

2. ROUTE CHARACTERISTICS

(USGS Topographic Maps: Niagara Falls, NY-ONT and Tonawanda West, NY Quadrangles)

Facility Slope and Intervening Terrain

Average slope of facility in percent:

1.0%.

Name/description of nearest downslope surface water:

Niagara River.

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

< 1.0%.

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

No.

Is the facility completely surrounded by areas of higher elevation?

1-Year 24-Hour Rainfall in Inches

2.1" (U.S. Department of Commerce Technical Paper No. 40).

Distance to Nearest Downslope Surface Water

1.2 miles to the Niagara River (USGS Topographic Maps).

Physical State of Waste

Solid and liquids (NYSDEC Registry Sheet, 12/83).

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill surface (buildings, concrete and asphalt) precludes runoff and the runoff is diverted to a sewer system serving a wastewater treatment plant. (ES and D&M site inspection, 3/21/85).

Method with highest score:

Impervious surface with runoff diversion system.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Waste constituents including PAH, benzene, phenol, toluene are suspected in landfill due to presence of coal tar pitch (USGS, 1983). However, the landfill site is presently covered thereby preventing the introduction of the waste constituents to the surface water pathway.

Compound with highest score:

Not applicable. For purposes of rating the site, waste constituents identified in the groundwater would not be scored.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Quantity unknown - coal tar chemicals known to be on-site. However, the landfilled material cannot impact the surface water route because of the impervious cover over the site (score = 0).

Basis of estimating and/or computing waste quantity:

NYSDEC Registry Sheet, 12/83.

* * *

5. TARGETS

Surface Water Use

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

- 1. Conduit intakes for power generation
- 2. Recreational green space Buckhorn Island State Park
- 3. Recreational boating
- 4. Industrial/commerical shipping
- 5. Orchards on Navy Island, Ontario, Canada

Is there tidal influence?

No.

Distance to a Sensitive Environment

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

None within 2 miles (western NYS not a coastal area).

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

None within 1 mile. Closest wetland is 1.1 mile (Buckhorn Island, best wetland in Upper Niagara) (NYS Wetlands Maps).

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

None within 1 mile (NYSDEC Region 9, Division of Fish & Wildlife Files).

Population Served by Surface Water

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

Intakes for Robert Moses Power Plant Reservoir

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

Water intakes used only for power generation.

Total population served:

Water intakes used only for power generation.

Name/description of nearest of above water bodies:

Water intakes used only for power generation.

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

Water intakes used only for power generation.

AIR ROUTE

1. OBSERVED RELEASE

Contaminants detected:

HNU meter readings for volatile organics were less than 1 ppm.

Date and location of detection of contaminants:

Site inspection conducted by ES and D&M, 3/21/85.

Methods used to detect the contaminants:

HNU meter readings were taken up and downwind of the site and readings did not indicate an air release.

Rationale for attributing the contaminants to the site:

Not applicable.

* * *

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

No known reactive compounds.

Most incompatible pair of compounds:

No known incompatible compounds.

Toxicity

Most toxic compound:

Not applicable. No suspected wastes were evaluated since no air release was indicated by HNu meter.

Hazardous Waste Quantity

Total quantity of hazardous waste:

Not applicable. The quantity of hazardous waste disposed of on-site is unknown. For purposes of rating the site, none of the wastes on-site have the potential to enter the air pathway because of the asphalt cover over the site.

Basis of estimating and/or computing waste quantity:

Not applicable. Asphalt cover prevents potential air pollutants from entering the air pathway.

* * *

TARGETS

Population Within 4-Mile Radius

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

(0 to 4 mi) 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi

84,383 people (Complied from 1980 US Bureau of the Census Data).

Distance to a Sensitive Environment

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

None within 2 miles (western NYS not a coastal area).

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

None within 1 mile (NYS Wetlands Maps).

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

None within 1 mile (NYSDEC Region 9, Division of Fish & Wildlife Files).

Land Use

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

0.0 mi., site is located in industrial area (ES and D&M Site Inspection, 3/21/85).

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

1.8 miles to Buckhorn Island State Park (USGS Topographic Maps: Niagara Falls, NY-ONT and Tonawanda West, NY Quadrangles).

Distance to residential area, if 2 miles or less:

0.2 miles (USGS Topographic Maps: Niagara Falls, NY-ONT and Tonawanda West, NY Quadrangles).

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

More than 1 mile (USGS Topographic Maps: Niagara Falls, NY-ONT and Tonawanda West, NY Quadrangles).

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

More than 2 miles (USGS Topographic Maps: Niagara Falls, NY-ONT and Tonawanda West, NY Quadrangles).

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

No.

FIRE AND EXPLOSION

1. CONTAINMENT

Hazardous substances present:

No information was discovered during the Phase I study which indicates that a fire and explosion situation existed or presently exists at the site. Note that the site is covered with asphalt which prevents the release of any materials.

Type of containment, if applicable:

Not applicable, see above comment.

* * *

WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

No measurements to determine the fire and explosion potential were taken on-site.

Ignitability

Compound used:

No ignitable compounds are known to exist on-site.

Reactivity

Most reactive compound:

No reactive compounds are known to exist on-site.

Incompatibility

Most incompatible pair of compounds:

No incompatible compounds are known to exist on-site.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

No hazardous waste are known to be disposed on-site that create a potential fire and explosion situation.

Basis of estimating and/or computing waste quantity:

No applicable, see above comment

* * *

TARGETS

Distance to Nearest Population

0.2 mile to residential area (ES and D&M Site Inspection, 3/21/85).

Distance to Nearest Building

0.0 mile, Airco Speer Carbon buildings are located on-site (ES and D&M Site Inspection, 3/21/85).

Distance to Sensitive Environment

Distance to wetlands:

None within 1 mile of the site (NYS Wetlands Maps).

Distance to critical habitat:

None within 1 mile (NYSDEC, Region 9, Department of Fish and Wildlife, 1985).

Land Use

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

0.0 mile, site is located in an industrial area (ES and D&M Site Inspection, 3/21/85).

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

1.8 miles to Buckhorn Island State Park (USGS Topographic Maps: Niagara Falls, NY-ONT and Tonawanda West, NY Quadrangles).

Distance to residential area, if 2 miles or less:

0.2 mile (ES and D&M Site Inspection, 3/21/85).

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

More than 1 mile (USGS Topographic Maps: Niagara Falls, NY-ONT and Tonawanda West, NY Quadrangles).

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

More than 2 miles (USGS Topographic Maps: Niagara Falls, NY-ONT and Tonawanda West, NY Quadrangles).

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

No.

Population with 2-Mile Radius

36,756 people (US Census Data, 1980).

Buildings Within 2-Mile Radius

Unknown.

DIRECT CONTACT

1. OBSERVED INCIDENT

Date, location, and pertinent details of incident:

Information collected during the Phase I investigation did not indicate that a direct contact incident occured at this site.

* * *

2. ACCESSIBILITY

Describe type of barrier(s):

Site completely fenced, locked gate and guard = 0 (ES/D&M Site Inspection).

* * *

3. CONTAINMENT

Tyep of containment, if applicable:

Landfill is covered with an impervious asphalt surface which will prevent direct contact with landfilled wastes.

* * *

4. WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

PAH, benzene, phenol, and toluene are suspected in landfill due to presence of coal tar pitch (USGS, 1983). However, the impervious asphalt cover system over the landfill prevents these wastes from posing a direct contact threat.

Compound with highest score:

Not applicable. See above comment.

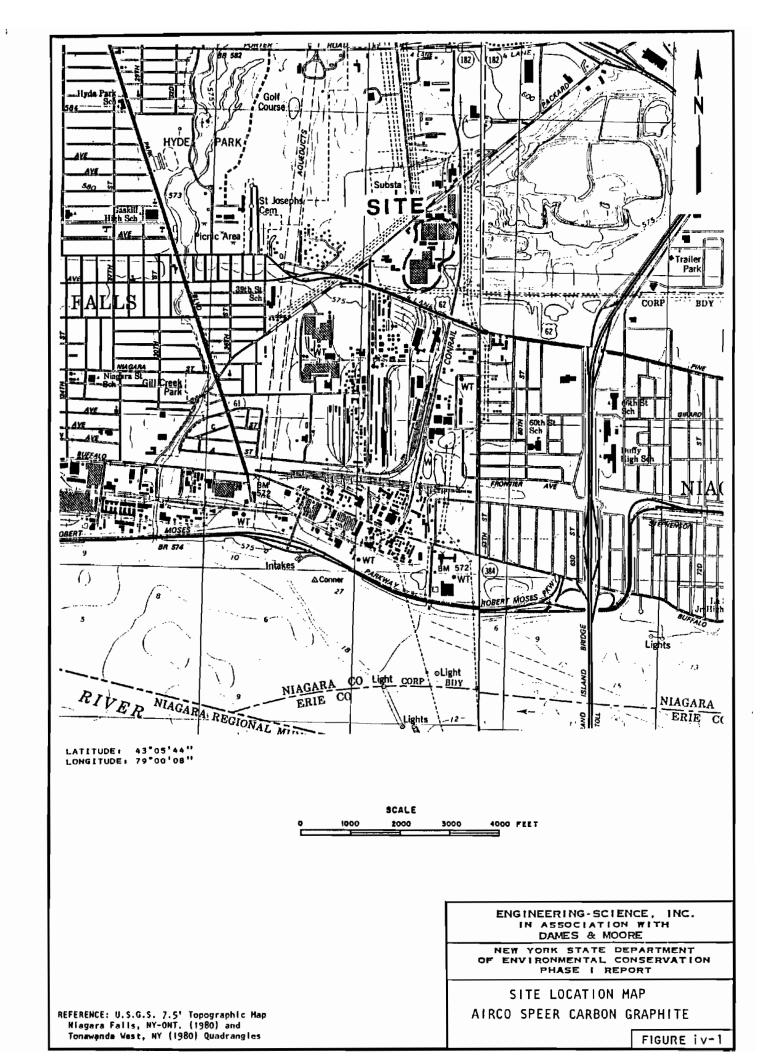
5. TARGETS

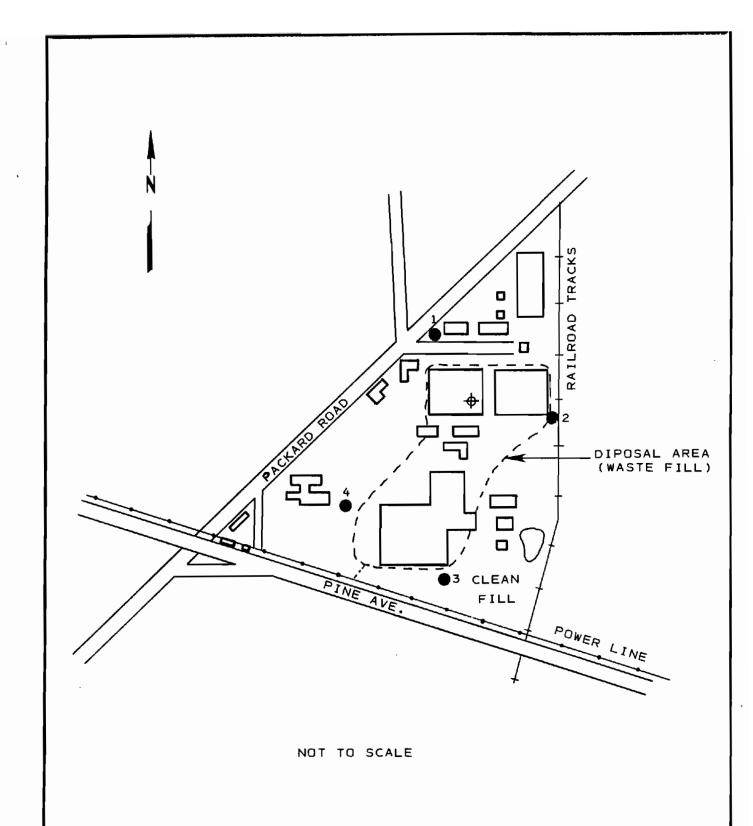
Population within one-mile radius

5,902 (US Census Data, 1980). Note that the Airco Speer property is fenced and well guarded to prevent entry and these people are not at risk because the landfill has an asphalt cover system.

Distance to critical habitate (of endangered species)

None within 1 mile (NYSDEC, Region 9).





EXPLANATION:

● 1 U.S.G.S. TEST BORING

POSSIBLE FORMER SPRING

ENGINEERING-SCIENCE, INC. IN ASSOCIATION WITH DAMES & MOORE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE I REPORT

> PLOT PLAN AIRCO SPEAR CARBON

> > FIGURE iv-2

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENT	IFICATION	
O1 STATE	02 SITE NUMBER	1263

II. SITE NAME AND LOCATION						
01 SITE NAME (Lagar, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER					
Airco Speer Curbon-Graphite	4861 Packard Road					
log CITY	04 STATE 05 ZIP CODE 06 COUNTY 07 COUNTY 08 CONG CODE DIST					
Niagara Falls	NY 14302 Mizgara 163 35					
09 COORDINATES LATITUDE LONGITUDE						
10 DIRECTIONS TO SITE (Starting from meanest public road)	11 11 11 11 12 12 12 12 12					
of fackard and fine St. in 1	Viagara falls, New York					
III. RESPONSIBLE PARTIES	-					
01 OWNER (# Arrestm)	02 STREET (Business, making, residential)					
International Graphite and Electro	4					
03 CITY	04 STATE 05 ZIP CODE OS TELEPHONE NUMBER					
,	[
07 OPERATOR (If known and different from owner)	OB STREET (Business, making, residence)					
Arres Speer Carbon-Graphite	4861 Packard St.					
logary.	10 STATE 11 ZIP.CODE 12 TELEPHONE NUMBER					
Nicgera falls	NT 14302 1718 285-17-1					
13 TYPE OF OWNERSHIP (Check one)						
PRIVATE B. FEDERAL:	C. STATE CD.COUNTY C E. MUNICIPAL					
☐ F. OTHER:	G. UNKNOWN					
(Soccity) 14 OWNER/OPERATOR NOTIFICATION ON FILE (Check at that agely)						
☐ A. RCRA 3001 DATE RECEIVED: / / ☐ B. UNCONTRO	OLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED:/ IFC. NONE					
IV. CHARACTERIZATION OF POTENTIAL HAZARD	MONTH DAY YEAR					
01 ON SITE INSPECTION BY (Cheek all that apply)						
TOGO DATE 1 17/81 DE EPA OB.	EPA CONTRACTOR BC. STATE D. D. OTHER CONTRACTOR DEFICIAL F. OTHER:					
CONTRACTOR NAME(S	(Specify)					
02 SITE STATUS (Check one) 03 YEARS OF OR						
□ A. ACTIVE □ B. INACTIVE □ C. UNKNOWN	1930 1954 UNKNOWN					
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED	Is of combonaceous granules and dust,					
	al of linseed and co-1 hor) This					
of asbestes were disposed in a	n onsite landfill					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION	11.					
Imperious landfill cover (but	dings, concrete, asphalt mechanic					
Evitace water contamination. There is evidence of soil contamination.						
There is no direct endence of grown I wester contamination atthough the under table of the underlying perched assistant has he						
V. PRIORITY ASSESSMENT						
01 PRIORITY FOR INSPECTION (Check one, if high or medium is checked, complete Part 2 - Wasie information and Part 3 - Description of Hazardous Conditions and Incidents)						
A. HIGH B. MEDIUM C. C. LOW D. NONE (Inspection required) (Inspect						
VI. INFORMATION AVAILABLE FROM						
01 CONTACT 02 OF (Agency: On						
I John A. Botts Eng	morning - Schemez (ES) (788) 544-7575					
04 PERSON RESPONSIBLE FOR ASSESSMENT 05 AGENCY	06 ORGANIZATION 07 TELEPHONE NUMBER 08 DATE					
John A. Rotts	ES (733) STORE DAY YEAR					

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

	IFICATION	
O1 STATE	02 SITE NUMBER 0780 20126	— ₹

IL WASTE STATES, QUANTITIES, AND CHARACTERISTICS							
01 PHYSICAL	STATES (Check of that sophy)	02 WASTE QUANTI		03 WASTE CHARACTE	ERISTICS (Check all that ac	ony)	
2 SOUD	TA SOUTH THE STUDEN MUST be IN		ridependent)	TE A. TOXIC DE. SOLUE			
			86000	C. BADIOA	☐ B, CORROSIVE ☐ F. INFEC*		VE
	CUBIC YAROS		<u> </u>	Do. PERSIST	TENT 🖸 H. IGNITA	ABLE 🛄 L. INCOMF	
D D. OTHE	(Spealy)	NO. OF DRUMS _					
IIL WASTE	TYPE	L			1		
CATEGORY	SUBSTANCE N	IAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE			_	-		
OLW	OILY WASTE		2500	وها.	1 inseed of	il and coal	tar
SOL	SOLVENTS				1,10,	.,	
PSD	PESTICIDES		 		-86,000 4	و وليسمه ع، ط	əf
occ	OTHER ORGANIC CH	HEMICALS				clout aran	uler and
ЮС	INORGANIC CHEMIC					ricks come	
ACD	ACIOS				and Samo	, , , , ,	7
BAS	BASES					Spestos	
MES	HEAVY METALS				7 1055	4 1 14 14 15 14 16 16	
IV. HAZARI	DOUS SUBSTANCES (544 As	ppendix for most frequenti	y cand CAS Mumbers				_
01 CATEGORY			03 CAS NUMBER	04 STORAGE/DISF	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
200	Renzene		71-43-2	unter	YWY	untennun	
مرر	Pyrane		129-0-00	1 , , ,		8-320	Ima/1
011	Fluoranthe	عسره	206-44-0	* (1)		9,1-34.0	1
MLC	Renzolalan		56-55-3			7,1-24.0	lin snil
OCL		Ourene	50-32-8			7.9-49.0	Samplex
OCC		Franklore			!	13 - 43.0	ladizient
000	Chrisene		218-01-9			5.6-23.0	to Tan Hill
acc	Tolvene		108-82-3			inknown	
ACC	An this cen	e	120-12-7			2.0	
OC C	Renzo (ahi					4.6-13.0	
OCC	No pothal-en-		91-20-3			Unknown	
000	Ph Eventhe		85-01-8			4,0-19,0	
nec	Dibonza (a.h)					12,0	
000			193-39-5			30.0-61.0	
000		910	1319-77-3			untingun	
020			108-95-2			untensin	
	OCKS (See Appendix for CAS Mumb	ersi	1 - 5 /2 6	 			
CATEGOR			02 CAS NUMBER	CATEGORY	01 FEEDSTO	OCK NAME	02 CAS NUMBER
FDS				FDS			
FDS				FDS			
FDS				FOS	_		
FDS				FDS			
VI. SOURC	ES OF INFORMATION (CA.	specific references, e.g.,	. State (lies, semple analysis, /	reportal			_
1. U	SGS Studu In	efa Repo	rt. 1983	•			
2. 1	Identa with	Ron Spea	or Emm	mental Cons	tral for Air	40,3/21/8	5
2. Interven with Ron Spears, Emminental Control for Airco, 3/21/85							

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

O1 STATE 02 SITE NUMBER

AY 0980201263

II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 (2 A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) DEPOTENTIAL	☐ ALLEGED
		tion from PA	1 H -
Potential source of gre contaminated soils of	HEA. Ismilfill contain	s coal tar =	hich
contains providing			
01 B. SURFACE WATER CONTAMINATION	02 C OBSERVED (DATE:) ☐ POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
unknown			•
3.3			
01 C. CONTAMINATION OF AIR	02 C OBSERVED (DATE:) C POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
UNKnown	•		
			٠.
01 □ D. FIRE/EXPLOSIVE CONDITIONS	02 C OBSERVED (DATE:) □ POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
unknown			
01 C E. DIRECT CONTACT	02 CBSERVED (DATE:) C POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
UNKnown			
01 GF. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED:	02 G-OBSERVED (DATE:) □ POTENTIAL	I ALLEGED
USGS SUrvey found PAHS	04 NARRATIVE DESCRIPTION	- 21:5	
USGS SURVEY HOUND PAHS 1	J. 5011	5 0/ M745	
01 G. DRINKING WATER CONTAMINATION	02 CBSERVED (DATE:) C POTENTIAL	_ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
UNKNOWN			
01 C H. WORKER EXPOSURE/INJURY	02 C OBSERVED (DATE:) _ POTENTIAL	- ALLEGED
03 WORKERS POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
unknown			
01 G I. POPULATION EXPOSURE/INJURY	02 C OBSERVED (DATE:) □ POTENTIAL	T ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
Unknown			

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

1-	IUEN	IFICATION	_
01	STATE	02 SITE NUMBER	
۱,	(I)	10927211	243

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

IL HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
01 J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)	O POTENTIAL	O ALLEGED
Untenoun			
01 K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(a) of apocine)	02 C OBSERVED (DATE:)	POTENTIAL	C ALLEGED
unknown	ı		
01 □ L CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	O POTENTIAL	□ ALLEGED
UNKNOWN			
01 M. UNSTABLE CONTAINMENT OF WASTES	02 OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
Unknown			
01 O N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 GBSERVED (DATE:)	POTENTIAL	ALLEGED
Unknown			
01 G. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	02 (1) OBSERVED (DATE:)	□ POTENTIAL	☐ ALLEGED
Unknown			
01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
Unknown			
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLE	GED HAZAROS		
uknown			
IIL TOTAL POPULATION POTENTIALLY AFFECTED:			
IV. COMMENTS			
V. SOURCES OF INFORMATION (CRe apacific references, a. g., state free.	Zamore analysis, (soorts)		
1. USBS Study Draft Report	, 1983		
2. Es and D&M site insp	ection 3/21/85		

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	ω
_	

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L. IDENTIFICATION

01 STATE | 02 SITE NUMBER

096 0 7 0 12 5 3

VEFA	PART 1 - SIT	E LOCATION AND	ON REPORT INSPECTION INFORMA	ATION 129	D96 5 2712 53
IL SITE NAME AND LOCATION 01 SITE NAME (Legal common, or descriptive			2 STREET, ROUTE NO., OR SPE	CONTROL OF A TION I MENTIONE	
^					
AIRCO Speer	Carson -	(Traphiti	4861 Pack	AND KOUS	07.COUNTY 08 CONG
HIAGIANA FAI			. 1	MIAGIARA	I COOF I DIST
09 COORDINATES		10 TYPE OF OWNERSHIP TA. PRIVATE (Check one) B. FEDERAL.	C. STATE D. COUNT	TY E. MUNICIPAL
III. INSPECTION INFORMATION		U F. OTHER —			JWM
	2 SITE STATUS	03 YEARS OF OPERATION	ON		
3,21,85	☐ ACTIVE 12 INACTIVE		930 1954	UNKNOW	N
MONTH DAY YEAR 04 AGENCY PERFORMING INSPECTION		BEGIN	NING YEAR ENDING YEAR		
		enns - Science	C, MUNICIPAL D. MI	INICIPAL CONTRACTOR	
E. STATE DA. STATE CONTR	ACTOR DAME	B moore	G. OTHER		(Name of firm)
OS CHIEF INSPECTOR		(Name of firm)		(Specify) 07 ORGANIZATION	08 TELEPHONE NO.
	. 7	1			(753) 5 - 7. 7.
s. Robert Stee	1e,11	Common	ental Scientist	11 ORGANIZATION	
S. Robert Stee. OB OTHER INSPECTORS Eileen Gil	,	10 TITLE	ental Scientist	11 OHGANIZATION	12 TELEPHONE NO.
Eileen Gil	ligan	Geologi	で チ	PEM	E1357-5 7-5
	-			•	()
					1
					()
					()
					()
13 SITE REPRESENTATIVES INTERVIEW	red	14 TITLE	15AOORESS		16 TELEPHONE NO
Ron Spears	•	Director	· 4861 Pac	Kand Rd.	7/612/5-4921
		Emronn			
		Control	Niagons	L,NY 14302	()
		mager		<u> </u>	
Herbert Fed	- سرم	Access & G)c //		() //
					()
					()
					()
_					
	E OF INSPECTION	19 WEATHER CONDI	TIONS		
(Cheet one) CP PERMISSION	30 pm		1 //2/-		
☐ WARRANT /	F///	CO	d, clear		
IV. INFORMATION AVAILABLE	FROM				02 TEL COLORES NO
01 CONTACT		02 OF (Agency/Organic	earlings of the	1=c	03 TELEPHONE NO.
John A. Bot 04 PERSON RESPONSIBLE FOR SITE IN	+6				**
		05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	OS DATE
S. Robert Steel	e II		I ES	75 - 54 1-7575	5 4 15
EPA FORM 2070-13 (7-81)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MONTH DAY YEAR
L-n-Onm 40(0-13 (/-01)					

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

I. IDENTIFICATION							
O1 STATE	02 SITE NUMBER	 1フム?					

7			PART 2 - WAST	E INFORMATION	4	141 1010	<u> </u>
IL WASTE ST	TATES, QUANTITIES, AN	O CHARACTERI	STICS				
	TATES (Check all that eoply)	02 WASTE QUANTI		03 WASTE CHARACT	ERISTICS (Check at that I	anoly)	
B. POWDE	□ G. GAS	(Meagures of must be i TONS	Report Superations	to A. TOXIC B. CORRIO C. BAOIO D. PERSIS	ACTIVE G. FLAM	CTIOUS J. EXPLOS	SIVE NE PATIBLE
D. OTHER	(Spearly)	NO. OF DRUMS _					
L WASTE T	YPE				ı		
CATEGORY	SUBSTANCE N	MME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE						
OLW	OILY WASTE		2500	and.	linseed a	il and coal	tar
SOL	SOLVENTS						
P\$0	PESTICIDES				-86,000	ر استهام عاطان	9 f
occ	OTHER ORGANIC C	HEMICALS			carbono	cease some	vleg and
IOC	INORGANIC CHEMIC	ALS			dust. b	opicke com	a do block
ACD	ACIDS				and Sim	<u> </u>	
BAS	BASES				7 tons -	11/12/11	
MES	HEAVY METALS						_
V. HAZARDO	OUS SUBSTANCES (See A	opendix for most frequent	y ared CAS Mumbers				
1 CATEGORY	02 SUBSTANCE N	IAME	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
مدر	Benzene		71-43-2	unter	nown	untengina	Ļ
عدد	Pyrane		129-0-00	!		8-32.5	mg/1
000	Fluoranth		206-44-0	, 1		911-34.3	1
066	Ben 7 3 / 2 / 10		56-55-3			7,1-24.0	Vin 5111
000	Benzo (a)		50-32-8			7.9-47.0	(Sumple)
066	34-Benzon	Augranthone				13-43.5	1 : A raident
000	Chrysene		218-01-9			5,6-23,0	1 - 1 m 1 (-1)
Oll	Tolvene		108-82-3			unknown	:
1CC	An thing cen		120-12-7			2.0	1
SCC.	Renzo (gh	i perulent	191-24-2			4,6-13,0	
OCC	No pthalen		91-20-3			Untengun	
000	Phenonthy		85-01-8			4,0-19,0	1
200	Diberzo (a,b)	anthracene				12.0	
000	Itabno (1,23-	ed) pyreme			_	30.0-61.0	↓ '
occ	cress		1319-77-3			Untenguy	
020	phenol		108-95-2			untengian	L
/. FEEDSTO	CKS (See Appendix for CAS Munic						
CATEGORY	01 FEEDSTOO	X NAME	02 CAS NUMBER	CATEGORY	01 FEEDS1	TOCK NAME	02 CAS NUMBER
FDS				FOS			
FDS			_	FOS			
FDS				FDS			
FDS				FDS			
VL SOURCE	S OF INFORMATION (CZ	apacific references, e.g.	, state files, sample analysis,	reportal			
1. U	SGS Study Dr	fa Repr	rt 1982	S			
0_	20091	M C-	· / / / / /			s. 5110	_
2. I	idental with	Kon Spec	rs, Emm	mental Cor	stral for Air	(co, 3/21/8.	.5

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

LICENTIFICATION

OF STATE OF SITE NUMBER

NY COSCIONOSISS

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

_			
II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 Z A. GROUNDWATER CONTAMINATION	D2 C OBSERVED (DATE:)	D POTENTIAL	G ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		A 1.
Potential correct of gra	words it am constantion	n from 17	44-
Leave it ded seite A	Head and condition that the	wal tar :	with
contains pricrism f			
01 © B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (OATÉ) 04 NARRATIVE DESCRIPTION	C POTENTIAL	C ALLEGED
our of outline of the first of the second of	or which the person in viola		
Unknown			·
UN REPOSIT			
01 C. CONTAMINATION OF AIR	02 C GBSERVED (DATE:)	= POTENTIAL	€ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
	•		
UNKNOWN			
•			
AL C. B. ENDS ENDS CONCUEDING	02 CBSERVED (DATE:)	Z SOTTUTAL	C ALLEGED
01 C D. FIRE-EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	C POTENTIAL	T WEEGED
1x-Known			
01-10/1921			
		<u> </u>	
01 C E DIRECT CONTACT	02 C OBSERVED (DATE)	I POTENTIAL	I ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
Unknown			
01 GF CONTAMINATION OF SOIL	02 G CBSERVED (DATE.	I POTENTIAL	I ALLEGED
03 AREA POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
USGS survey found PAHS 1	<u>.</u> . soil s	ampus	
1 32 37, 7.2			
01 C. G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE)	_ POTENTIAL	I ALLEGE O
OF STOCKNOW STOCKNINGER AND GENERAL	OF TARTOR PERSONS TO IT		
UNKAMOON			
01 C H WORKER EXPOSURE/INJURY	02 I OBSERVED (DATE)	I POTENTIAL	T ALLEGED
03 WORKERS POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
UNICHOUNT			
01 © I, POPULATION EXPOSURE INJURY	02 C CBSEPVED (DATE	C POTENTIAL	I ALLERED
03 POPULATION POTENTIALLY AFFECTED:			
,			
12%-KAOWA			

I SEFA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZAHDOUS CONDITIONS AND INCIDENTS

–	~	-	~	
1 :05:01	TIETO A	TIO	u	
i. loesii	II ICA	1101	•	
	L	<u></u>		
O1 STARE	102 2:11	٠٠٠١	COLF.	
1	<i>→</i> . →	* .		C . C
OT STATE	111	1	- 1	150
	L 14			

TH WATARROUS CONDITIONS AND INCIDENTS				
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)				
01 D J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:	<u> </u>	☐ POTENTIAL	C ALLEGED
Unknown				
01 D.K. CAMAGE TO FAUNA 04 NARPATIVE DESCRIPTION INClude name (a) of accepts	02 (OBSERVED (DATE:)	C POTENTIAL	C ALLEGE D
UNKAONN		•		
01 ① L CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGE D
0,015,000				
01 M. UNSTABLE CONTAINMENT OF WASTES	02 G OBSERVED (DATE:	1	O POTENTIAL	C ALLEGED
03 PCPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION			
U Total (1305)				
01 C N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)	C POTENTIAL	C ALLEGED
UNKNOWN				
01 G O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS 04 NARRATIVE DESCRIPTION	02 G OBSERVED (DATE:	1	C POTENTIAL	C ALLEGED
4.10000				
01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 G OBSERVED (DATE:)	C POTENTIAL	C ALLEGED
Ca Isrami				
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEC	GED HAZARDS			
U. Burown				
III. TOTAL POPULATION POTENTIALLY AFFECTED:				
IV. COMMENTS				
V. SOURCES OF INFORMATION (Cite suinc inclinerencing in g. state files :	tament analysis renorms		an Mandaga ba danasa da	
1. USGS S'-18: I. St Pagar				
2 Din 1 (1 M 1				
EP#FCAM (070-12 [7-81]				

ॐEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION

I. IDENTIFICATION.					
O1 STATE!	02 SITE NUMBER (098) 201269				

	PART 4 - PERMI	T AND DE	SCRIP	TIVE INFORMAT	ION L	11 10983 2312 65
II. PERMIT INFORMATION			-			
01 TYPE OF PERMIT ISSUED (Check at that apply)	02 PERMIT NUMBER	03 DATES	SSUED	04 EXPIRATION DATE	05 COMMENTS	
I _						
☐ A. NPOES ☐ B. UIC				_		
M.C. AM		2/7/	124	2/7/87	F 11 1 1 1	y ceirfollution
			8 -	2/1/6/		
D. RCRA	-				confr	<u> </u>
E. RCRA INTERIM STATUS						
G. STATE (Specify)		- 				
H. LOCAL (Specify)						
1. OTHER (Specify)						
J. NONE						
IIL SITE DESCRIPTION						44.07.69
	22 AMOUNT 03 UNIT (OF MEASURE	04 11	REATMENT (Check at that a	PPV)	05 OTHER
A. SURFACE IMPOUNDMENT				INCENERATION		A. BUILDINGS ON SITE
☐ B. PILES ☐ C. DRUMS, ABOVE GROUND				UNDERGROUND INJE		
D. TANK, ABOVE GROUND				CHEMICAL/PHYSICA BIOLOGICAL	L	
☐ E. TANK, BELOW GROUND				WASTE OIL PROCES	SING	06 AREA OF SITE
OPF. LANOFILL			□ F.	SOLVENT RECOVERY	4	2
G. LANDFARM				OTHER RECYCLING	RECOVERY	(Acres)
£PH. OPEN DUMP			□ H.	OTHER	<u></u>	
(Spearly)						
constitution debr	ns were disp hed by new	la co	an io	pen grade ructed bu	dendfil	and asphalt.
IV. CONTAINMENT						
D1 CONTAINMENT OF WASTES (Check one)						
A. ADEQUATE, SECURE	☐ 8. MODERATE	□ Ç. IN	IADEQI	JATE, POOR	D. INSECUR	E, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKUNG, LINERS, BUTHERS, BUTHERS	disposed in					
buildings and syrface rune	osphalt cal	Hratio	n.	as im in	nfiniou	C CAM C SA SA
V. ACCESSIBILITY						
01 WASTE EASILY ACCESSIBLE: YES 02 COMMENTS				,		
Land Fil	is covered by	bild:	ngs	and sip	halt,	
VI. SOURCES OF INFORMATION (Clie see	acifio referencea, e.g. state files, ser	nom eneryem, repo	orte)			
1. ES and D.E	M site in	sperto	~ ,	2/-1/85		
		U			1978	
2. NYSDES H	Arra Scor to	NYCOF	ے ح	1/28/84	,	

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENT	IFICATION
OT STATE	02 SITE NUMBER D980 201263

♥EFA	PART 5 - WATER	SITE INSPECT			ENTAL DATA	NY 0980201263	
II. DRINKING WATER SUPPLY	17(1) 9 - (77) 12(1)	, being drizer in	O, AILD EILT		ENTAL DATA		
01 TYPE OF DRINKING SUPPLY (Check as applicable)		02 STATUS				03 DISTANCE TO SITE	
SURFACE	WELL	ENDANGER	ED AFFECT	red a	MONITORED	No. on how A	
COMMUNITY A. B	B. 🗆	A. 🗆	B. 🗆		C. 🗆	A. Upgradient (mi)	
NON-COMMUNITY C. []	D. 🗆	D. 🗅	E. 🗆	· · · · · · · · · · · · · · · · · · ·	F. 🗆	B(mi)	
III. GROUNDWATER 01 GROUNDWATER USE IN VICINITY (Cheen							
A. ONLY SOURCE FOR DRINKING (Other sources evenephs) COMMERCIAL, INDUSTRIAL, IRRIGATION (United other sources evenephs) (United other sources evenephs) (No other inster sources evenephs)							
02 POPULATION SERVED BY GROUND WATER OF O O O DISTANCE TO NEAREST DRINKING WATER WELL NAMED (mi)							
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GRO	UNDWATER FLOW	06 DEPTH TO A	OUIFER	07 POTENTIAL YIEL OF AQUIFER	D 08 SOLE SOURCE AQUIFER	
~ 10 m unknown			~ 10	3.0	unkno	_(gpd) YES KNO	
09 DESCRIPTION OF WELLS (including useage	o, depth, and location relative to p	Population and buildings)					
Several ,	molum	had	u ell	مستعلب	1/2 m	ules bouth	
	1						
3/ 2-	te						
10 RECHARGE AREA			11 DISCHARGE	AREA			
☐ YES COMMENTS	1.		□ YES C	OMMENT	s ,		
ONO NO	Auror		□ NO		untino	un	
IV. SURFACE WATER						-	
01 SURFACE WATER USE (Check one)			_				
A. RESERVOIR, RECREATION DRINKING WATER SOURCE		N, ECONOMICALLY TRESOURCES	r □ c. co	MMERCIA	L, INDUSTRIAL	D. NOT CURRENTLY USED	
02 AFFECTED/POTENTIALLY AFFECTED 8	ODIES OF WATER						
NAME:					AFFECTED	DISTANCE TO SITE	
	611	· wor			_	1.1	
	Niga	ora RIV	<u>e</u>			(mi)	
						(mi)	
V. DEMOGRAPHIC AND PROPERT	Y INFORMATION						
01 TÖTAL POPULATION WITHIN				02	DISTANCE TO NEARE	EST POPULATION	
	NO (2) MILES OF SITE B. 36,756 NO. OF PERSONS		3) MILES OF SIT 72, 452 10. OF PERSONS). 2	
03 NUMBER OF BUILDINGS WITHIN TWO (2	MILES OF SITE		04 DISTANCE T	O NEARES	T OFF-SITE BUILDING	· · · · · · · · · · · · · · · · · · ·	
					0.0	(mi)	
05 POPULATION WITHIN VICINITY OF SITE	(Provide narrative description of	nature of population within	vicinity of site, e.a., r	wal vilege, d	enselv populated urban ar	aet .	
duellings Offeriors							
duellings	(100	unit		rea	e di	1 CC -	
Officero	e ino	lustra	and	مايه رجين	i. » «		

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA OI STATE 02 SITE NUMBER 07 8 020 126							
VI. ENVIRONMENTAL INFORMA	ATION .						
01 PERMEABILITY OF UNSATURATED Z	ONE (Check one) Clay						
A. 10-6 - 10-	8 cm/sec □ B. 10 ⁻⁴ - 10 ⁻⁶ cm/sec □	C. 10 ⁻⁴ - 10 ⁻³ cm/se	ec D. GREATER THAN	10 ⁻³ cm/sec			
02 PERMEABILITY OF BEDROCK (Check of							
A. IMPERN	MEABLE B. RELATIVELY IMPERMEAB	LE C. RELATIVELY	PERMEABLE D. VERY m/sec) (Greener	PERMEABLE Inan 10 ⁻² covsec)			
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	,				
~/D(m)	unknown	nu	hnows				
06 NET PRECIPITATION	OT ONE YEAR 24 HOUR RAINFALL	08 SLOPE SITE SLOPE I D	PIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE			
(ln)	<u>2.1</u>	1.0 %	c	1.0 %			
09 FLOOD POTENTIAL	10						
SITE IS IN 7 100 YEAR FLO	ODPLAIN SITE IS ON BARR	IER ISLAND, COASTAL H	HIGH HAZARD AREA, RIVER	INE FLOODWAY			
11 DISTANCE TO WETLANDS (5 acre menino	um)	12 DISTANCE TO CRITICA MIGRATORY	AL HABITAT (of endangered species	1			
ESTUARINE	OTHER	BIRDS	AQUILA CHI	(mi)			
A. <u>> ユ(ml)</u>	B (mi)	ENDANGERED	SPECIES: HALIAEETOS				
13 LAND USE IN VICINITY				reavenes			
DISTANCE TO: COMMERCIAL/INDUSTR A	RESIDENTIAL AREAS; NATION FORESTE, OR WILDLIE	NAL/STATE PARKS, TE RESERVES	PRIME AG LAND	AG LAND			
14 DESCRIPTION OF SITE IN RELATION			30 00	le lij			
I site		ua of	- Company	7			
modefie	ed-by. man	ر بادم	o grays. he	4			
to adjo	real to	laye	C800	5			
landfil	I and or	herusi	al Ken	liounded			
h h	in hiphirmy						
VII SOURCES OF INFORMATION							
VII. SOURCES OF INFORMATIO	N (Cite specific references, e.g., state files, sample analysis	, reports)					

ES and DAM SITE inspection, 3/21/85 11565 topo sheets NVSDEE fells

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8-SAMPLE AND FIELD INFORMATION

	TFICATION	
OT STATE	D985	1263

SAMPLE TYPE		_		
	01	NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER				
SURFACE WATER				
WASTE				
AIR				
RUNOFF				
SPILL .				
SOIL				
VÉGETATION				
OTHER				
IIL FIELD MEASUR	EMENTS TAKEN	<u></u>		
01 TYPE		COMMENTS		
HNU		41 NU ~	veter readings were taken during t	Le
, i		Site in	veter readings were taken during the expection and all measurements were I ppm	2 e1:
		than	1 ppm	
IV. PHOTOGRAPHS	S AND MAPS			
01 TYPE GROUN	D 🗆 AERIAL		02 IN CUSTODY OF Engineering - Circle (ES)	
03 MAPS GYES NO	04 LOCATION OF	MAPS - S		
		ED (Provide namelive de		

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

Es and D&M, site inspection, 3/21/85

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 7 - OWNER INFORMATION

L. IDENTIFICATION

O1 STATE O2 SITE NUMBER

NY N9 802 0 12 5

PARENT COMPA R OB NAME BOC 10 STREET ADDRESS 12 CITY R OB NAME 10 STREET ADDRESS 12 CITY R OB NAME 10 STREET ADDRESS 12 CITY R OB NAME	International BIP.O. BOR. RFD P. SIC.) 13 STATE 13 STATE 16 (P.O. BOR. RFD P. SIC.)	11 SIC CODE 11 SIC CODE 14 ZIP CODE 11 SIC CODE 14 ZIP CODE 109 D+8 NUMBER 11 SIC CODE
BOC BOC 10 STREET ADDRESS 12 CITY 12 CITY 13 CITY 14 CITY 15 OB NAME 16 STREET ADDRESS 12 CITY 17 CITY	13 STATE 13 STATE 13 STATE 13 STATE	11 SIC CODE 114 ZIP CODE 11 SIC CODE 11 SIC CODE 14 ZIP CODE 19 D+8 NUMBER
12 CITY 2 10 STREET ADDRESS 12 CITY 10 STREET ADDRESS 11 CITY 12 CITY	13 STATE 13 STATE 13 STATE 16 (P.O. Box. RFD P. sec.)	11 SIC CODE 11 SIC CODE 11 SIC CODE 109 D+8 NUMBER
12 CITY 2 OS NAME 10 STREET ADDRESS 12 CITY R OS NAME 10 STREET ADDRESS 12 CITY	13 STATE 13 STATE 13 STATE 13 STATE	09 D+B NUMBER 11 SIC CODE 14 ZIP CODE 09 D+B NUMBER 11 SIC CODE
R 08 NAME 10 STREET ADDRESS 12 CITY 10 STREET ADDRESS 12 CITY	13 STATE	11 SIC CODE 14 ZIP CODE 09 0+8 NUMBER
12 CITY 12 CITY 10 STREET ADDRESS 12 CITY	13 STATE	09 0+8 NUMBER
OS NAME 10 STREET ADDRESS 12 GITY	b (P.Q. Box, RFQ ≠, sec.)	09 0+8 NUMBER
DE 10 STREET ADDRESS		11 SIC CODE
12 CITY		
	13 STATE	
R 08 NAME		14 ZIP CODE
		09 D+8 NUMBER
DE 10 STREET ADDRESS	(P O. Box, RFO #, atc.)	1 1 SIC CODE
12 CITY	13 STATE	14 ZIP CODE
IV. REALTY OWN	IER(S) (If applicable; list most recent first)	
R 01 NAME	(),()	02 D+8 NUMBER
DE 03 STREET ADDRESS	3 (P.O. Box, RPD #, #10.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE
A 01 NAME		02 D+8 NUMBER
DE 03 STREET ADDRESS)(P.O. Box, RFO ≠, etc.)	04 SIC CODE
os city	06 STATE	07 ZIP GODE
R 01 NAME		02 D+8 NUMBER
OS STREET ADDRESS	(P.O. Box. RFO #, sec.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE
di contrar (concini		
	O5 CITY O1 NAME O3 STREET ADDRESS O5 CITY de analysis, (apports)	OS CITY OB STATE O1 NAME O3 STREET ADDRESS (P.O. Box. RFD #, MC.) O5 CITY O6 STATE

9	FPΔ	
V		١

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

I. IDENT	IFICATION	
O1 STATE	02 SITE NUMBER 0980201	263

IL CURRENT OPERATOR (Provide & differen	At from currer)	OPERATOR'S PARENT COMPANY (#	sppiicabie)	
O1 NAME	02 D+8 NUMBER	10 NAME	1.	1 D+8 NUMBER
AIRCO Speer Carbon-	Graphita	BOC Internations	2	
03 STREET ACCRESS (P.O. Box, AFD F. sec.)	04 SIC COD€	12 STREET ADDRESS (P.O. Box, RFD P, etc.)		13 SIC CODE
48 6) Packard R. OSCITY MIGGARA- FAILS OS YEARS OF OPERATION OB NAME OF OWN	and	unknown		
OS CITY	OB STATE OF ZIP CODE	14 CITY	15 STATE 1	6 ZIP CODE
Alicean Souls	14/4 14300			
OS YEARS OF OPERATION TORNAME OF OWN				
1978-present				
IIL PREVIOUS OPERATOR(S)	DATE STEE STEWARD GAILY & Officerant from connect	PREVIOUS OPERATORS' PARENT CO	MPANIES ##	ipicable)
01 NAME	02 D+8 NUMBER	10 NAME	1	1 D+8 NUMBER
Speer Larson C	ompany			
Speer Carson C	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD F, etc.)		13 SIC CODE
SAME as a	Sole			
06 CITY	06 STATE O7 ZIP CODE	14 CITY	15 STATE 1	6 ZIP CODE
06 YEARS OF OPERATION 09 NAME OF OW	NER DURING THIS PERIOD			
1920-1970				
1930-1978	02 D+8 NUMBER	10 NAME		1 D+B NUMBER
· · · · · · · · · · · · · · · · · · ·		TOTAME		TOTONUMBER
EXCLOR COMPO 03 STREET ADDRESS (P.O. BOLL APD P. ADD.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFO F, etc.)		13 SIC CODE
care as asa.				
some as a so	106 STATE I 07 ZIP CODE	14 CITY	15 STATE 1	6 ZIP CODE
	0, 2, 333		1.00	O ZIF OCOL
08 YEARS OF OPERATION 09 NAME OF OW	NEA DURING THIS PERIOD			
	MER DURING THIS PERIOD			
1930 -1932				
OT NAME	02 D+8 NUMBER	10 NAME	1	1 D+B NUMBER
International Graphete (03 STREET ADDRESS (P.O. SM. MOD. M.)	& Electrone CO.			
03 STREET ADDRESS (P.O. Box, AFO P. sec.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD F, etc.)		13 SIC CODE
Same as asa	e			
same as asa	06 STATE 07 ZIP CODE	14 CITY	15 STATE 1	6 ZIP CODE
08 YEARS OF OPERATION 09 NAME OF OW	NER OURING THIS PERIOD			
1920-1930 (ESt)				
IV. SOURCES OF INFORMATION (Ch)	ipacilla references, e.g., ssaje files, sample analysi	is, reports)		
Interagences Ta	sk force on	Hazardous Wastes su	ney , ,	1978

Interagency Task Force on Hazardons wastes survey, 1978
NIAGAM Country Health Department, Site Profile Report, 1981

ŞEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8 - GENERATOR/TRANSPORTER INFORMATIO

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

N Y 1985201763

	PART 9	- GENERATOR/T	TANSPORTER INFORMATION		
IL ON-SITE GENERATOR					
01 NAME		02 D+8 NUMBER	Since 1954, All c	MASTES GE	wented
03 STREET ADORESS (P.O. Box, RFD P. MO.)		04 SIC CODE	Since 1954, All waster generated at the Airco spear Carson-Graymeter plant are contract have off-site		
05 CITY	06 STATE	07 ZIP CODE	6- disposal		
III. OFF-SITE GENERATOR(S)					
OI NAME		02 D+8 NUMBER	01 NAME	0	2 C+8 NUMBER
03 STREET AOORESS (P.O. Bost, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, AFD #, etc.)		04 SIC CODE
OS CITY .	06 STATE	07 ZIP CODE	05 CITY	06 STATE O	7 ZIP COOE
01 NAME	<u> </u>	02 D+8 NUMBER	01 NAME		02 D+8 NUMBER
O3 STREET ADDRESS (P.O. Box, AFO F, etc.)		04 SIC CODE	03 STREET ADDRESS (P O. Box. RFD #, etc.)		04 SIC CODE
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IV. TRANSPORTER(S)					
os have		02 D+8 NUMBER	01 NAME	0	2 D+8 NUMBER
OS STREET ADDRESS (P.O. Box. AFD F. MO.)		04 SIC CODE	03 STREET ADORESS (P.O. Box, AFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	D7 ZIP CODE
01 NAME		02 D+8 NUMBER	O1 NAME.		02 D+8 NUMBER
03 STREET ADORESS (P.O. BOX, RFO #. etc.)		04 SIC CODE	03 STREET ADDRESS (P D. Box, AFD #, etc.)		04 SIC CODE
06 CITY	OG STATE	07 ZIP CODE	05 CITY	06 STATE	O7 ZIP CODE
V. SOURCES OF INFORMATION (C	to manufacture of the same of	n.a. sista film. sampie angles	M. reportal		
			J Hazardos WAS	TES SUR	vey, 1578
•			Carson Graphite er		

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

I. IDENTIFICATION

101 STATE 02 SITE NUMBER

NY D 98 020/263.

P	ART 10 - PAST RESPONSE ACTIVITIES	147 0 78 828.00
PAST RESPONSE ACTIVITIES		
01 C A. WATER SUPPLY CLOSED	02 DATE	03 AGENCY
04 DESCRIPTION		
01 D B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
NO		
01 □ C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
01 D. SPILLED MATERIAL REMOVED	02 DATE	03 AGENCY
04 DESCRIPTION		
01 DE. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
NO		
01 D F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY
M0		
01 [] G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY
NO		
01 ☐ H. ON SITE BURIAL	02 DATE	03 AGENCY
04 DESCRIPTION		
01 D I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
No		
01 D J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
N/O		
01 DK, IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
V4 DESCRIPTION NO		
01 [] L. ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY
04 DESCRIPTION MO		
01 D M. EMERGENCY WASTE TREATMENT	02 DATE	03 AGENCY
04 DESCRIPTION 40		
01 N. CUTOFF WALLS	02 DATE	03 AGENCY
04 DESCRIPTION //O		
01 O. EMERGENCY DIKING/SURFACE WATER D	IVERSION 02 DATE	03 AGENCY
04 DESCRIPTION		
01 DP. CUTOFF TRENCHES/SUMP	02 DATE	03 AGENCY
01 □ O. SUBSURFACE CUTOFF WALL		
01 D O. SUBSURFACE CUTOFF WALL	02 DATE	03 AGENCY
04 DESCRIPTION		

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

	TIFICATION
O1 STATE	02 SITE NUMBER D 980201263

77 E. 7 1	PART 10 - PAST RESPONSE ACTIVITIES	N/ 10/8000003
II PAST RESPONSE ACTIVITIES (Continued)		
01 S. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
MO		
01 DS. CAPPING/COVERING	02 DATE	03 AGENCY
04 DESCRIPTION ————————————————————————————————————	factory blogs m	unerous
O1 T. BULK TANKAGE REPAIRED	factory blogs in	03 AGENCY
04 DESCRIPTION	V2 UNIE	03 NGENO1
01 U. GROUT CURTAIN CONSTRUCTED	02 DATE	03 AGENCY
04 DESCRIPTION		
01 DV. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY
04 DESCRIPTION MO		
01 D W. GAS CONTROL	02 DATE	03 AGENCY
04 DESCRIPTION ALO		
01 D X. FIRE CONTROL	02 DATE	03 AGENCY
04 DESCRIPTION NO		
01 TY. LEACHATE TREATMENT	02 DATE	03 AGENCY
04 DESCRIPTION		
01 Z. AREA EVACUATED	02 DATE	03 AGENCY
04 DESCRIPTION	•	
01 M 1. ACCESS TO SITE RESTRICTED	02 DATE	
Cornelately fence	t, locked sate	4 SHOUL
01 D 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	
NO	•	
01 [] 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY
NONE		
•		
	•	
II. SOURCES OF INFORMATION (Cité specific re	elerances, e.g., state files, sample analysis, repons)	
	site inspection, 3/21/8	
cs and + Fill	or inspection, 3/21/0	3

\$EPA

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

I. IDENTIFICATION 01 STATE 02 SITE NUMBER 144 098020/263

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION | YES | MO

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

NONE

IIL SOURCES OF INFORMATION (Cite specific references, s.g., state lifes, sample energial, reports)

NYS DEC, ENVIRONMENTAL ENFORCEMENT DIVISION NYS. Attorney Grewerl OFFICE

SECTION VI

ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

ASSESSMENT OF DATA ADEQUACY

A summary assessment of the adequacy of existing data for completion of the HRS score is presented in Table VI-1. Based on this assessment, the following Phase II work plan and cost estimate has been prepared.

PHASE II WORK PLAN

Objectives

The objectives of the Phase II activities are:

- o To collect additional field data necessary to identify the occurrence and extent of contamination and to determine if any imminent health hazard exists.
- o To perform a conceptual evaluation of remedial alternatives and estimate budgetary costs for the most likely alternative.
- o To prepare a site investigation report including final HRS score.

The additional field data required to complete this investigation are described as follows:

Groundwater - A groundwater monitoring system consisting of 4 wells is recommended. Borings will be drilled to a maximum depth of 25 feet; soil samples will be taken every 5 feet or more frequently if a change in soil lithology is encountered. The wells will be placed in the aquifer of concern and constructed of 2" PVC pipe. The groundwater samples will be analyzed for priority pollutants. In addition, sieve and hydrometer analyses will be performed on representative samples of the subsurface soils. Finally, an in-situ permeability test will be performed on each well.

Air - An air monitoring survey with an HNu meter is recommended to test the air quality during site activities.

TASK DESCRIPTION

The proposed Phase II tasks are described in Table VI-2 as required under the site specific health and safety plan and quality assurance plan which must be submitted prior to initiation of field activities. The proposed monitoring well and sampling location are presented in Figure IV-1.

COST ESTIMATE

The estimated man-hours required for the Phase II project are presented in Table VI-3 and the estimated project costs by tasks are presented in Table VI-4. The estimate total cost for this project is \$38,875.

TABLE VI-1 ASSESSMENT OF DATA ADEQUACY

Comments on Data
Insufficient data for HRS score
Insufficient data for HRS score
Adequate data for HRS score
Adequate data for HRS score
Adequate data for HRS score
Not applicable, no observed release
Adequate data for HRS score
Insufficient data for HRS score, incomplete information on hazardous waste quantity
Adequate data for HRS score
Adequate data for HRS score
Adequate data for HRS score

TABLE VI-2

PHASE II WORK PLAN - TASK DESCRIPTION

	Tasks	Description of Task
II-A	Update Work Plan	Review the information in the Phase I report, conduct a site visit, and revise the Phase II work plan.
II-B	Conduct Geophysical Studies	No further studies necessary.
II-c	Conduct Boring/Install Monitoring Wells	Install 2 upgradient and 2 down- gradient wells. The borings will be drilled to a depth of 10 to 25 feet as determined during drilling. Wells will be constructed of 2" PVC pipe.
II-D	Construct Test Pits/Auger Holes	No further construction of test pits/auger holes necessary.
II-E	Perform Sampling & Analysis	
	Soil samples from borings	Soil samples collected at 5 ft. intervals during drilling and at changes in subsurface lithologies. Perform one grain size analysis and permeability test per subsurface lithology change.
	Soil samples from surface soils	No further studies necessary.
	Soil samples from auger holes/test pits	No further studies necessary.
	Sediment samples from surface water	No further studies necessary
	Groundwater samples	4 groundwater samples are to be collected and analyzed for priority pollutants (pesticides not included).
	Surface water samples	No further studies necessary.

TABLE VI-2 (Continued) PHASE II WORK PLAN - TASK DESCRIPTION

	Tasks	Description of Task
	Air samples	Using the HNu determine the presence of organics.
	Waste samples	No further sampling necessary.
II-F	Calculate Final HRS	Based on the field data collected in Tasks II-B - II-E, complete the HRS form.
11 - G	Conduct Site Assessment	Prepare final report containing significant Phase I information, additional field data, final HRS and HRS documentation records, and site assessments. The site assessment will consist of a conceptual evaluation of alternatives and a preliminary cost estimate of the most probable alternative.
II-H	Project Management	Project coordination, administration and reporting.

TABLE VI-3 PERSINAEL NESULATES BY TASK PHRSE II HAS SITE IMESTIBATION (SITE? AURIX) SPEEK)

TASA DESCRIPTION							5	I NEWERS.	TEAN NEDBERS, NOWELLINS						
	PIC	2	£	Ē	ğ	8		Ę	E	텵	TI BER	83	TOTAL HOURS	4 ·	
11-A UPDATE NOM PLAN	-	-	•	•		•	•	2		•		Ħ	*	14.1	
II - CONDUCT GEOPHYSIDAL STUDIES													-	•	
11-C COMOUCT BORING/INSTRALL NOVITORING NELLS			•	9		•	•	育	3			ಪ	22	128 1746.12	
11-0 CONSTRUCT TEST PLTS/ALGER Hales													•	•	
II-E, PERFORM SOPPLING PAD AMLYSIS															
SOUL SHIPLES FROM BORINGS			•	4 '		a	a.	•	9			•	\$	636. te	
SOIL SWOLES FROM SLIFFREE SOILS													-	•	
SOIL SAMPLES FROM TEST PITS AND FLEEF MILES													•	•	
SEDJINENT SAMPLES FION SUJEFACE Later													•	•	
GACIND-UNTER SOPPLES			•	a		-	-	•	8			•	*	629.61	
STIFFICE WATER SOUPLES													•	•	
ALIO STAPLES									•				•	37.2	
WSTE SWALES													•	•	
11-F COLCULATE FINAL HAS			•	•				•	•	a,		•	81	38.38	
11-8 CONDLET BITE ASSESSMENT	83	a	•	a				\$	N	21	7	8	22	2517.62	
II H PROJECT KRAGEDENT	a u		٠	ου.	m	•	•					엌	Ħ	529.86	
TOTAL	n	~	34	*	m	2	2	*	*	ន	*	*	ង	7334.91	

TABLE VI-4 CIBT ESTINGTE BREAKOOM DY TASK PARSE 11 NES BITE IMAESTIGHTE! ALIKO SPEER)

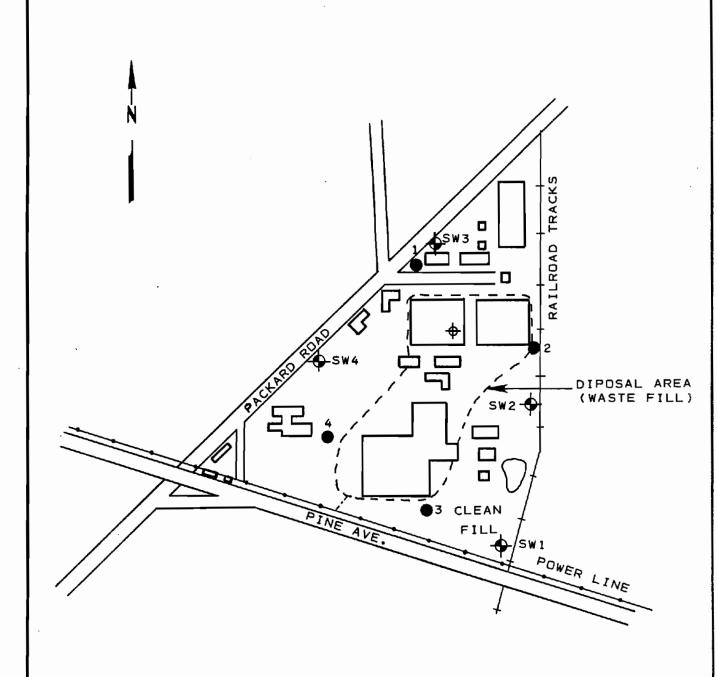
OTHER DIRECT COSTB (CDC), 4

TREK DESCRIPTION

	# 2	DIRECT LABOR Hours coeff	COB PAPEL YSIS	LAS TRAVEL RAD PPRLYSIS BLESISTANCE	NO CE SEPOLIES	EDUID. S CHORES	SUBCON-	M18C.	BLBTUTAL ODC	TOTAL (6)	
II-A LPDATE NOR PLAN	£	74 81,144.10		12.00 B	25.	£56.		85. 8	4356.00	61, 494, 10	
II-9 COVOLCT BELTPARICYL STUDIES	•	#							#	#	
II-C COUNCT BORING/INGTRLL NOUTDRING WELLS	S	41,746.12		# TO		53 85. 8	65, 326.00		67, 72B. 88	69, 466, 12	
II-9 COGTALCT TEST PITS/AMER HT.E3	•	1							*	2 1	
II-E PERFORM SHIPLING RND Antlysis											
SDIL SHIPLES FROM JORINBS	\$	6. to			# # # # # # # # # # # # # # # # # # #	8.			4294. 88	1938. 42	
901L SAPPLEB FROM BLIFFACE 901L8	•	*							#	*	
901L SAPPLES FAON TEST PITS PRO ALREIR HOLES	•	*							2	# #	
SEDINENT SWPLES FROM Suffixe Water	•	#							1	#	
GROUND-LATER SHAPLES	*	629.61	629.61 84,388.80	£38.8	25.	13. S		8. 8.	85, 358. B	£5, 979, 61	
SUFFICE WITER SPIPLES	•	# #							# #	*	
ALR SUPLES	•	£37.28				4288. 88			\$200°	6237, 20	
WRITE SHIPLES	•	#							# #	# #	
II-F CALDILATE FINZ HRS	81	439.36				\$138.8			8158.8	83H. 36	
11-6 CONCUCT SITE ASSESSED	571	82,217.82			675B. 88	1380.00		€75.	91,125.88	53, 342, 62	
II-H PROJECT KRAGENENT	Ħ	6259.88	4375.00	138.8	\$158. B	83°		2 5	\$\$27. B	61,454.86	
	2	67, 334. 91	12,173,10 11,254,00 11,454,00 11,994,00 15,924,00	61, 338.00	61, 459. 88	91, 998.00	45, 924.80	122.	16"YSE"KZ# 00"Y829"91\$ 00"YZZ#	R3, 354.91	

916,474,25 933,629,16 92,695,91 935,875,67

ONEINEAD= Blbtotal= Fee= Total Project (081=



NOT TO SCALE

EXPLANATION:

● 1 U.S.G.S. TEST BORING

POSSIBLE FORMER SPRING

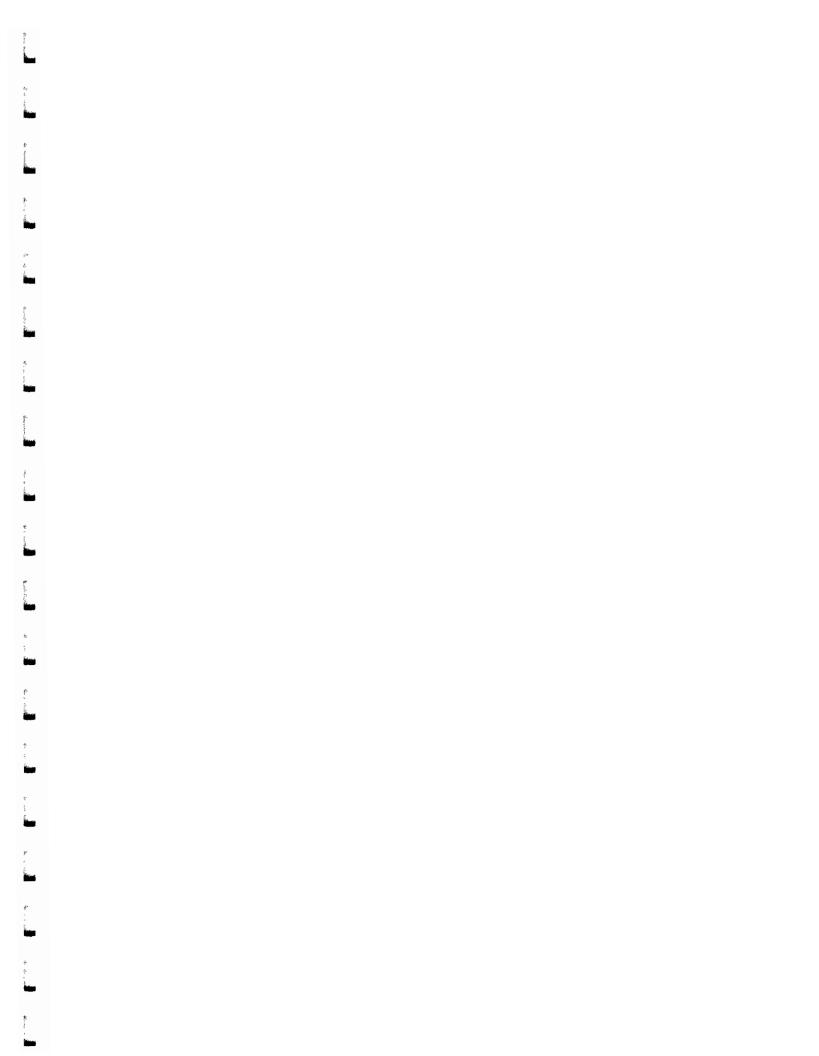
PROPOSED WELL LOCATION

ENGINEERING-SCIENCE, INC. IN ASSOCIATION WITH DAMES & MOORE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE ! REPORT

PROPOSED SAMPLING LOCATIONS
AIRCO SPEAR CARBON

FIGURE VI-1



APPENDIX A REFERENCES

Sources Contacted

Documentation

SOURCES CONTACTED FOR AIRCO SPEER CARBON-GRAPHITE INVESTIGATION

CONTACT	DATE CONTACTED	PERSON	TELEPHONE NUMBER	LOCATION	INFORMATION COLLECTED
USEPA Headquarters, Superfund Office	4/2/85	Hamid Saebfed	(202) 382-4839	401 M Street, NW Washington, D.C. 20460	Reviewed list of sites to determine if additional information was available.
USEPA - Region II, OERR	3/22/85	Mel Hauptman	(212) 264-7681	Room 402 26 Federal Plaza NY, NY 10278	General information from site files.
NYSDEC - Division of Solid and Hazardous	12/19/84	Marsden Chen	(518) 457-0639	50 Wolf Road Albany, NY 12233	General information from site files.
NYSDEC - Division of Water	12/19/84	Sal Pagano	(518) 457–6675	50 Wolf Road Albany, NY 12233	Mr. Pagano set up meet- ings with three bureaus within Division of Water.
NYSDEC - Division of Water SPDES Files	12/20/84	Bob Hannaford	(518) 457–6716	50 Wolf Road Albany, NY 12233	Reviewed SPDES Files for permit numbers and conditions.
NYSDEC - Division of Water DMR Files	12/21/84	George Hansen	(518) 457-2010	50 Wolf Road Albany, NY 12233	Reviewed DMR files for discharge violations.
NYSDEC - Division of Air Toxics	12/21/84	Art Fossa	(518) 457-7454	50 Wolf Road Albany, NY 12233	Reviewed site list to identify sites with potential air emissions.
NYSDEC - Division of Monitoring and Assessment	12/21/84	Bill Berner Frank Estabrook Fred Van Alstyne	(518) 457-7363 (518) 457-7363 (518) 457-7363	50 Wolf Road Albany, NY 12233	Reviewed geology and monitoring information for specific sites.

SOURCES CONTACTED FOR AIRCO SPEER CARBON-GRAPHITE INVESTIGATION

CONTACT	DATE	PERSON CONTACTED	TELEPHONE NUMBER	LOCATION	INFORMATION COLLECTED
NYSDEC - Division of Environmental Enforcement	12/20/84	Kevin Walter	(518) 457–4346	50 Wolf Road Albany, NY 12233	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.
NYS - Attorney General's Office, Dept. of Law	1/7/85	Val Washington	(518) 473-3105	Empire State Plaza Justice Building Albany, NY 12233	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.
NYS - Attorney's Office	1/3/85	Albert Bronson	(716) 847–7196	Buffalo State Office Bldg. Buffalo, NY 14202	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.
NYSDEC - Division of Solid and Hazardous Waste	1/7/85	Ahmad Tayyebi Larry Clare Peter Buechi Jack Tygert	(716) 847-4615 (716) 847-4615 (716) 847-4590 (716) 847-4585	600 Delaware Ave. Buffalo, NY 14202	Collected information from site files.
NYSDEC - Region 9 Division of Air	1/8/85	Henry Sandonato Robert Armbrust	(716) 847–4565	600 Delaware Ave. Buffalo, NY 14202	Collected information concerning previous air emissions from inactive disposal sites.

SOURCES CONTACTED FOR AIRCO SPEER CARBON-GRAPHITE INVESTIGATION

INFORMATION COLLECTED	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.	Collected information from site files.	Collected information from site files	Collected information from Niagara County site files. Obtained additional information through interview.	Obtained 1980 U.S. Census Data.	Conducted site inspection and reviewed past waste management practices.	Interview regarding on-site disposal of wastes
LOCATION	600 Delaware Ave. Buffalo, NY 14202	584 Delaware Ave. Buffalo, NY 14202	600 Delaware Ave. Buffalo, NY 14202	Tenth & East Falls Street Niagara Falls, NY 14302	59 Park Ave. Lockport, NY 14094	4861 Packard Rd. Niagara Falls, NY 14302	4861 Packard Rd. Niagara Falls, NY 14302
TELEPHONE NUMBER	(716) 847–4551	(716) 847-4500	(716) 847-4600 (716) 847-4600	(716) 284-3124	(716) 439–6033	(716) 285–9381	(716) 285–9381
PERSON	Peter J. Burke	Lou Violanti	Mike Wilkinson Jim Sneider	Mike Hopkins	Dave Urso	Herbert Feder	Ron Spears
DATE	1/10/85	1/8/85	1/10/85 & 1/11/85	1/9/85	2/22/85	3/21/85	4/16/85
CONTACT	NYSDEC - Regional Attorney	NYS Dept. of Health, Buffalo Region, Public Health Engineering	NYSDEC - Region 9 Division of Fish and Wildlife	Niagara County Dept. of Health	Niagara County Dept. of Planning and Industrial Development	Airco Speer Carbon- Graphite	Airco Speer Carbon- Graphite

REFERENCES

- Airco Speer Carbon-Graphite, S. Danskin, Letter to NYSDEC, March 27, 1981.
- Empire Soils Investigation Logs, 1977.
- ES and D&M Site Inspection, Observations Recorded on USEPA Forms, March/April, 1985.
- 4. Freeze, R. A., and Cherry, J. A., Groundwater, 1985.
- 5. Hopkins, M., Niagara County Health Department, Comments in Phase I Report, 8/85 (included in report).
- 6. Johnston, Richard, H., Groundwater in the Niagara Falls Area of New York, 1964.
- NYS Atlas of Community Water System Sources, NYS Department of Health, 1982.
- NYS Museum and Science Service Bedrock Geology Map, Map and Chart Series, No. 15 (Compiled by Richard, L. V., and Fisher, D. W.).
- NYS Wetlands Maps (Not Provided in Appendix).
- 10. NYSDEC, Hazardous Waste Questionnaire, Interagency Task Force On Hazardous Waste, 1978.
- 11. NYSDEC, Registry Sheet, 12/83.
- 12. NYSDEC, Region 9, Division of Fish and Wildlife Files.
- 13. NCHD Site Profile, 1981.

- 14. Rochester Drilling Company Logs, 1977.
- 15. US Census Data, 1980.
- 16. US Department of Commerce. "Climatic Atlas of the United States", 1979.
- 17. US Department of Commerce Technical Paper No. 40. "Rainfall Frequency Atlas of the United States", 19863.
- 18. USGS Topographic Maps: Niagara Falls, NY-ONT and Tonawanda West, NY Quadrangles (Provided in Report).
- 19. USGS, Draft and Final Reports, Preliminary Evaluation of Chemical Migration to Groundwater and the Niagara River from Selected Waste Disposal Sites, 1983, 1985.

REF-1

4861 PACKARD ROAD, NIAGARA FALLS, NEW YORK 14302 + TELEPHONE, 716-285 9381

March 27, 1981

> Subject: Disposal of Sedimentation Basin Sludge on Airco Carbon Property

Dear Mr. Taggert: .

Enclosed please find two analyses of a sludge sample taken from a sedimentation basin located on Airco Carbon property. The source of the sludge is primarily cooling water used in the graphitization process, with some flow contribution from roof drainage.

It is proposed that the sludge, after removal from the sedimentation basin, be disposed of at a low spot on Airco Carbon property. Any water draining from the proposed disposal site will enter the city sewer system. At a later date the sludge will be used to fill voids in a ramp to be constructed behind bake plants 3 and 4. The proposed disposal site and ramp location are shown on the enclosed map. This disposal method is thought to be safe and adequate based on the non-toxic and non-corrosive nature of the sludge.

If you have any questions or comments related to this disposal procedure please contact me.

Sincerely,

Scott C. Danskin

Pollution Control Engineer

SCD:la

Enclosures: -3

!!00

MOISIAID

R&D

FROM:

H. Feder Niagara Falls A. Silwanowicz Murray Hill

1-to March 17, 1981

'SJECT:

Miagara Falls Fond Sludge

give letter dated_____

The submitted pond sludge sample was subjected to the EPA extraction procedure and corrosivity test. The results below indicate that the sludge is neither toxic nor corrosive.

Contaminants	Concentration (mg/l)	Concentration (mg/l)
Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	<0.01 <0.1 <0.1 <0.1 0.12 <0.001 <0.01	5.0 100.0 1.0 5.0 5.0 0.2 1.0 5.0
Corrosivity	0.0547 inches/yr	

A. Silwanowicz

AS:ma

cc: J. A. DeHuff

P. Krueger

S. Majumdar

C. Bussert

AIRCO TEST NUMBER: 081585

MATERIAL: Sludge from Sedimentation Basin

DATE RECEIVED: 9/26/80

TEST	UNOLE SAMPLE BASIS	ASH BASIS
% Ash	36 .9	
% Carbon	63.1	
% Minerals (Soluble in HC1)	10.8	2.92
% Sand (Soluble in HF)	12.8	
(Insoluble in HF)	~ 13.3	
% Sawdust	NIL	
% Sulphur	0.37	0.6
% H ₂ O	66.2	
% Solids (After Evaporation)	33.8	
Bulk Density (Wet; lbs/ft ³)	67.8	

SCREEN ANALYSIS

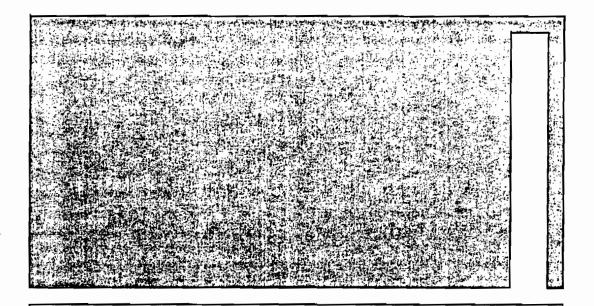
SIEVE	<u> </u>
8	0.1
10	0.1
20	1.6
35	0.6
65	0.8
115	4.8
200	20.0
325	25.4
PAN	46.6
	100.02

EMPIRE SOILS INVESTIGATION LOGS, 1977

This data source was used during the Phase I study and was obtained from reference material used by Dames & Moore's geology staff. A thorough review of Phase I records has not found this information and, therefore, it can not be submitted herein. Missing information will need to be found or replaced with other relevant information during the Phase II effort.

ES AND D&M SITE INSPECTION

Observations made during the ES and D&M Site Inspections are provided on US EPA Forms 2070-12 and 2070-13. Field notes were used to complete these EPA Forms, and are not included herein.



R. Allan Freeze

Department of Geological Sciences
University of British Columbia
Vancouver, British Columbia

John A. Cherry

Department of Earth Sciences University of Waterloo Waterloo, Ontario

GROUNDWATER

Prentice-Hall, Inc. Englewood Cliffs, New Jersey 07632 ce

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HAN BELLY

Table 2.2 Range of Values of Hydraulic Conductivity and Permeability

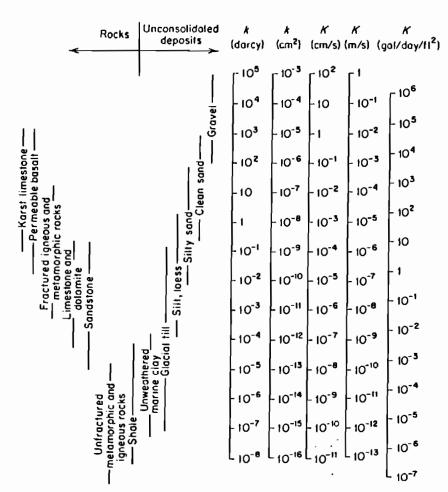


Table 2.3 Conversion Factors for Permeability and Hydraulic Conductivity Units

		Permeability, &*		Ну	draulic conductivi	ty, <i>K</i>
	cm²	ft²	darcy	m/s	ſt/s	gal/day/lt²
cm²	1	1.08 × 10 ⁻¹	1.01 × 10³	9.80 × 10 ²	3.22 × 10 ³	1.85 × 10°
ſt²	9.29×10^{2}	1	9.42×10^{10}	9.11×10^{5}	2.99×10^{6}	1.71 × 1012
darcy	9.87×10^{-9}	1.06×10^{-11}	1	9.66×10^{-6}	3.17×10^{-5}	1.82×10^{1}
m/s	1.02×10^{-3}	1.10×10^{-6}	1.04×10^{5}	1	3.28	2.12×10^{6}
ſt/s	3.11×10^{-4}	3.35×10^{-7}	3.15×10^{4}	3.05×10^{-1}	1	5.74×10^{5}
gal/day/ft2	5.42×10^{-10}	5.83×10^{-13}	5.49×10^{-2}	4.72×10^{-7}	1.74×10^{-6}	1

^{*}To obtain k in ft2, multiply k in cm2 by 1.08×10^{-3} .

INTERVIEW FORM

INTERVIEWEE/CODE MIN	e Hopkin	<u> </u>	/	
TITLE - POSITION Non	jara county	Health 6	Department	
ADDRESS				
CITY	·	STATE	ZIP	
PHONE (')		RESIDENCE PI	ERIOD	TO
LOCATION		INTERVIEWER		
DATE/TIME 1985 Rep	port Bevoca	,		
SUBJECT: AIRLO SPA	ver Carbon	Site		
- indistrict u	Summani later Supp miles from	Selow: Ly well AIRCO Sp. IS USES	lastes en carson	(Sw) svæ
15 10 4	orkers (n	eavine.	70	g-o-man
	·	•		
	<u> </u>		_	
I agree with the above i	nterview summa	ry:		
Signature/Title:				
Comments:		·		

GROUND WATER IN THE NIAGARA FALLS AREA, NEW YORK

With Emphasis on the
-Water-Bearing Characteristics of the Bedrock

BY
RICHARD H. JOHNSTON
GEOLOGIST
U.S. GEOLOGICAL SURVEY

STATE OF NEW YORK

CONSERVATION DEPARTMENT

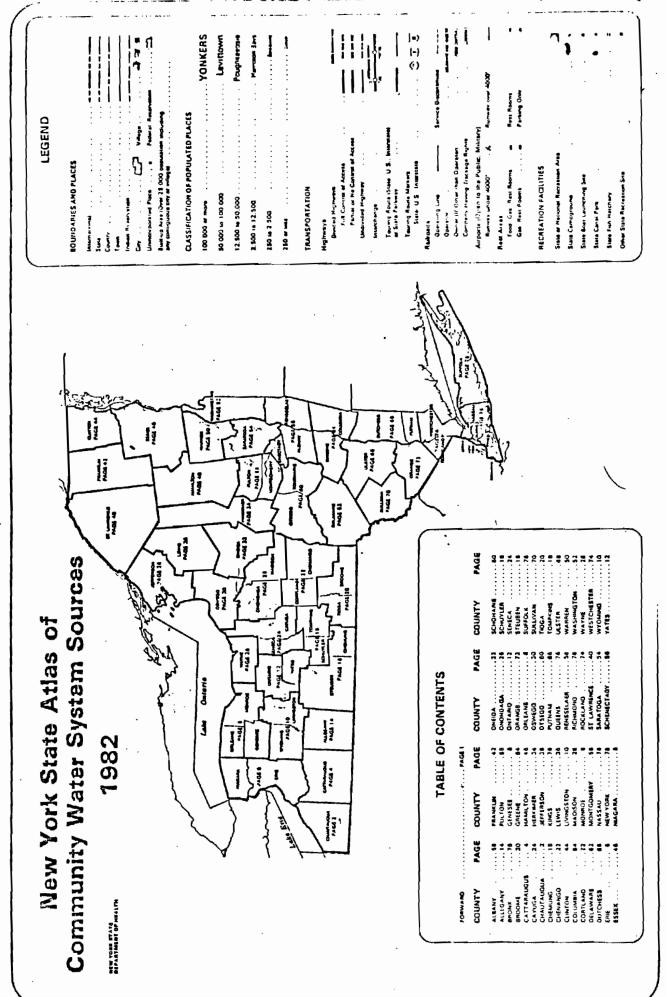
WATER RESOURCES COMMISSION

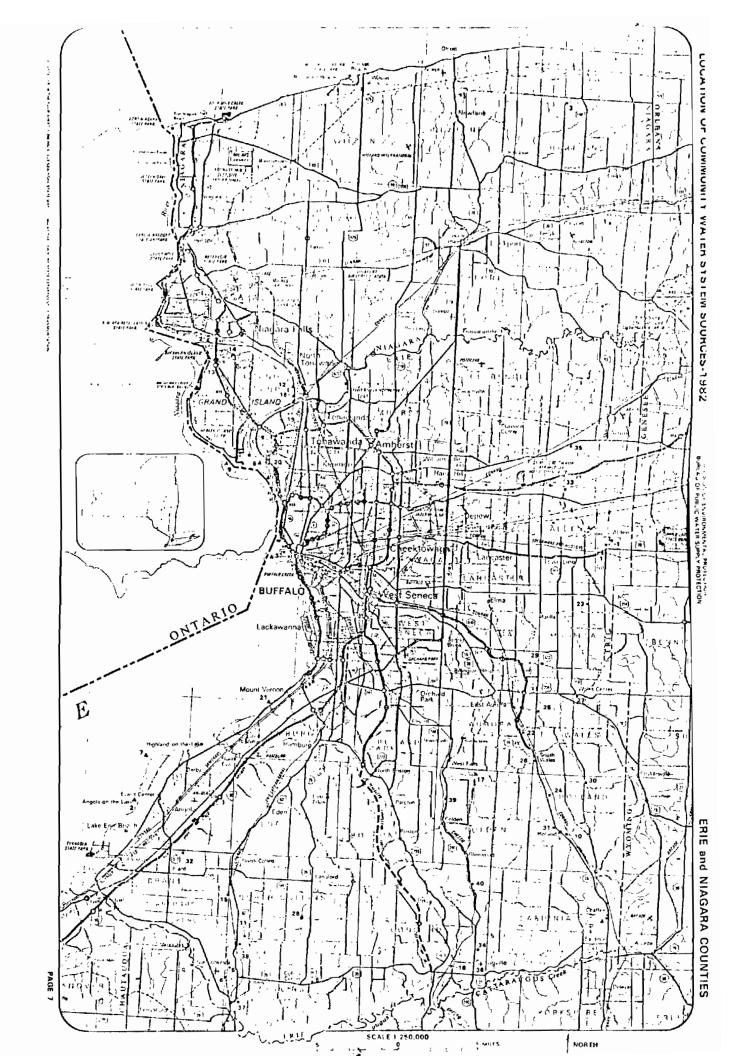


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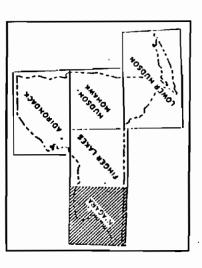
GEOLOGIC MAP OF NEW YORK

1970

Niagara Sheet

	15 Statute Miles 20	25 Kilometers 30	
		20	
250,000	10	15	
Scale 1:250,000	5	10	
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	2	s, l	

CONTOUR INTERVAL 100 FEET



COMPILED AND EDITED BY

Lawrence V. Rickard Donald W. Fisher

March, 1970

Todographic Base from AMS Quadrangles 1:250,000 scale.

NEW YORK STATE MUSEUM AND SCIENCE SERVICE

MAP AND CHART SERIES NO. 15

NYS WETLANDS MAPS

NYS Wetlands Maps were reviewed during the Phase I investigation. Individual maps for each site were not obtained and are, therefore, not included in the Phase I reports. Site specific information collected concerning the location of a wetland within 1 mile of a given site is recorded in the documentation section of each report.

INTERAGENCY TASK FORCE ON HAZARDOUS WASTES H.P.O. Box 561 Riagaca Falls, New York 14302 (716) 285-3057

5 : <u>5 : r</u>	ral information				
* I.	Company NameA	irco Speer Carbo	n-Graphite		
	Halling Address4	861 Packard Road			
	Ştre	et	City	State	Zip
	Present Plant Location	Same as Abov	e		
	Stre	et	City	State	Zip
2.	If Subsidiary or Div	ision, Name of Pa	rent Company	Aireo, Inc., Sub	sidiary of Bo
3.	Person Responsible f	or Present Jose	ph J. Stefane	iii	
	Ham	4	<u></u>		
•	P:	lant Manager		716-285-93	81
	Tit	le		Telepr	ione
4.	Person Answering thi Questionnaire	A bave			
	He	me			
	ना	tle		Teleph	nane
i. Com	pany History		• .		
	Date Company Founded	May 29, 1899	(Speer Car	bon Co.)	
	Date and State of Incorporation	Delaware			
	Date Company Began Operations in Eric or Niegara County	1930			
• 2.	Other Company Names since 1930 (specify	International	Graphite & I	Electrode Corp.	(IGE)
3.	time periods) Other Plant Location	None None			
,.	in Eric or Riagare				
	County since 1930 (specify locations and time periods)				
OTE4.	Names of Companies	Local plant	IGE) purchas	ed 1930 and own	ed 50% by
	Acquired which have Operated Plants in	Speer Carbo	n, 50% by Ex	elon. Speer Car	bon became
	Erle or Niagara Cour .since 1930 (specify	100% owner	1932. Speer	Carbon became	subsidiary o
÷	name of company, day of acquisition, loca	te otlonAirco B-31-	61 and a divis	sion 4-30-62. Ai	reo became
	of plant, and period of operation).	is		Delaware Corp.	

III. Company Personnel

- Plant Managers, 1930 to present
 - a. 1930 to 1942. A. Robinson, Superintendent, was the top official. Decreased
 - b. 1942 to 1951. W. Harvey. Resigned. Whereabouts unknown.
 - c. 1951 to 1968. F. Stauffer, Retired. 223 33rd Street, Niagara Falls, NY 716-283-3555
 - d. 1968 to September, 1974, R. L. O'Connor, Resigned.
 Torrington, Connecticut 203-489-9254
 - e. September, 1974 to August, 1977, H. A. Ridgway. Transferred. 800 Theresia Street, St. Marys, Pennsylvania 15857 814-781-2375
 - f. August, 1977 to present, J. J. Stefanelli. See 1.1 and 3.
 - 3. Feb 1480 Derevent RN . chuson
- 2. Purchasing Agents
 - a. 1930 to 1943, None
 - b. 1943 to 1953, Ray Greiner. Deceased
- c. 1953 to 1970, Frank Walker. Retired. 1353 Garrett Avenue Niagara Falls, NY 716-285-8556
 - d. 1970 to 1972. Gil Williams. 4861 Packard Road, Niagara Falls. New York 14302 710-133-7551.
 - e. 1972 to present. Oren Benner, See "d" above.
 - f. 3k2-quent Gilds Tomei
- 3. Supervisory personnel directing waste disposal activities.
 - a. 1930 to 1950. Unknown
- b. 1950 to 1971. R. R. Spencer. Retired. 220 Secena Street, Lewiston, NY 14092 716-754-7732
 - c. 1971 to 1972. O. Lambert. Terminated. Whereabouts unknown.
 - d 1972 to December, 1977, William K. Hepburn. Retired. 230 North 7th Street, Lewiston, NY 14092 716-754-4001
 - e. December, 1977 to present. Walter Schaal. 4861 Packard Road, Nlagara Falls, NY 14302 715-285-9381.

- 6/82(03) A.GIWAY - Grand Is.

6/82/03 greant & P. Feigenbaum - 2 /son N. Y.

111. Company Personnel

Talephone

I¥.

- Identify all plant managers from 1930 to present, indicate years of service in that position, last known address and telephone number.
- Identify all plant purchasing agents from 1930 to present. Indicate years of service in that position, last known address and telephone number.
- Identify all plant personnel with supervisory responsibility for treatment or disposal of industrial wastes from 1930 to present. Indicate years of service, last known address and telephone number.

	and Disposal	
Processes Used at Plant (1930-1975	D	Dates
. Graphitizing		. 1930 to prese
b. Oil Treating		b. 1942 to presc
c. Pitch Treating		c. 1936 to prese
d. Baking		d. 1952 to prese
e. Mixing and Extrusion		e. 1968 to prese
Products (1930-1975)		
Graphite		. 1930 to prese
b		b
¢		¢
d		· d
4		e
On Site Waste Treatment (1930-1975		
a. None		•
a. None		
- b		ь
b		b
- b		ь
b		b c d,
d. List all Waste Houlars since 1930		b c d,
d		b c d,
d. List all Waste Houlars since 1930		b c d,
d	including Your C	b
b	Including Your C	b
d	Including Your C	b

Page Three

(usa	separate sheet	tor each site).		,	31111 (177.5
٠.	Name of Site	International G	raphite & Electrodes		
ь.	Location 4861 Packard Road, Niagara Falls, NY				
c.	Owner or Operator Airco Speer Carbon-Graphite				
d.	Time Period Si	Ite was Used	1930 to 1954		
٠.	Describe Waste or Disposed at	Types Treated t this Site	Physical State	Total Cuantity	Type of Contai
(1)	Carbonace	ous Furnace	Dry granules,	Estimate	None
	insulation		chunks & dust.	100 yd ³ /mo-	
(2)	Spent refr	actories	Bricks & con-	growing	None
			crete blocks.	to 500/mo	
(3)	Obsolete r	or non-remairable		Small	None
	mechanics	il & electrical equ	.ip	-	
. (4)	Linseed O	il	Liquid	500 gal/vr after 1942	Drums
/es					
(3)	•				-
f.	Wastes Vere	x land.djspo:	sed incinerated	recl	almod
•					
	•	treated	other (specify)_		
5 -	Names of wast	to haulers includ	other (specify)_ ing your company trans		astes to this
s.	site, if a di	to haulers includ	ing your company trans		astes to this
5.	site, if a di	to haulers includ	ing your company trans		
5 •	site, if a di Internati	to haulers includ	ing your company trans	porting such w	
5 •	Internati	to haulers includ	ing your company trans	porting such w	
\$•	Internati Hame See above	to haulers includisposal site.	ing your company trans	porting such w	ns.
\$•	Internati Hame See above	to haulers includisposal site.	ing your company trans	porting such w	ne .
	Internati Hame See above Street Time Periods	to haulers Includisposal Site. onal Graphite & I	ing your company trans	Telepho State 1930 - 1954	ne .
	Internati Hame See above Street Time Periods Hame	to haulers Includisposal Site. onal Graphite & 1 such Hauler Trans	Ing your company trans Electrodes City sported to this Site	Telepho State 1930 - 1954 Telephon	ne .
	Internati Hame See above Street Time Periods Arme Street Time Periods	to haulers Includisposal Site. onal Graphite & I such Hauler Trans	City City City	Telepho State 1930 - 1954 Telephor	ne
5.	Internati Hame See above Street Time Periods Anne Street Time Periods List Hames an	such Hauler Trans such Hauler Trans t None	City City Sported to this Site City Sported to this Site	Telepho State 1930 - 1954 Telephor	ne
	Internati Hame See above Street Time Periods Arme Street Time Periods	such Hauler Trans such Hauler Trans t None	City City Sported to this Site City Sported to this Site	Telepho State 1930 - 1954 Telephor	ne
	Internati Hame See above Street Time Periods Anne Street Time Periods List Hames an	such Hauler Trans such Hauler Trans t None	City City Sported to this Site City Sported to this Site	Telepho State 1930 - 1954 Telephor	ne
h.	Internati Hame See above Street Time Periods Anne Street Time Periods List Names an	to haulers Includingosal Site. onal Graphite & I such Hauler Trans t such Hauler Trans None	City Sported to this Site City sported to this Site ther Companies using t	Telepho State 1930 - 1954 Telepho State his Site, If a	ne
h.	Internati Hame See above Street Time Periods Anne Street Time Periods List Names an	to haulers Includingosal Site. onal Graphite & I such Hauler Trans t such Hauler Trans None	City sported to this Site City sported to this Site City sported to this Site City cher Companies using t	Telepho State 1930 - 1954 Telepho State his Site, If a	ne
h.	Internati Hame See above Street Time Periods Anne Street Time Periods List Names an	to haulers Includingosal Site. onal Graphite & I such Hauler Trans t such Hauler Trans None	City sported to this Site City sported to this Site City sported to this Site City cher Companies using t	Telepho State 1930 - 1954 Telepho State his Site, If a	ne

Paga Three

-	5B	(use	tify all Treatment or Disposal Sites in Eric or Mianara County used since 193 separate sheet for each site).			
\$ 1			Name of Site We believe it wa	s the Union Carbide	Dump.	
¥ }			Location At the site of pr			
1		ь.	Owner or Operator Union Carb			
4		c.	Time Period Size was Used 19:		**	
រុំ ម		d.				
		e. .	Describe Waste Types Treated or Disposed at this Site	Physical State	Total Quantity	Type of Co
		(1)	Carbonaceous furnace	Dry granules.	Estimate	None
			insulation	chunks & dust.	500 yd. 3/mo	
		(2)	Spent refractories	Bricks & con-	growing to	None
				crete blocks.	1000/mo	
*	٠.	in	Sand	Dry particles		None
		(2)	_	<u> </u>		
						Nana
		(4)	Obsplete or non-repairable		Small	None
	•	٠.	mechanical & electrical equip.		Est. under	
		(5)	Linsced Oil	Liquid	500 gal/vr.	Drum
			-			
					. —11	almed
		T.	Wastes Were 🔀 land.d]spose	edincinerate	a 1 1 ec.	@ 1 k.vc.ri
14.5	· .	٠,	· <u> </u>	.	•	
1		٠.	· <u> </u>	other (specify)	•	
THE STATE OF		· .	treated [other (specify)		astes to th.
		g.	Hames of waste haulers including site, if a disposal site.	other (specify)		astes to th.
		g.	treated [other (specify)		
		g.	Hames of waste houlers including site, if a disposal site. Reback & Co.	other (specify)	sporting such w	
	S. Williams	g.	Homes of waste houlers including site, if a disposal site. Reback & Co.	other (specify)	sporting such w	
	S. Wildelings	g.	Homes of waste houlers including site, if a disposal site, Reback & Co. Home out of business Street Time Periods such Hauler Transp	other (specify) ng your company tran	sporting such w Telepho	ons
	Same Interest	g.	Hames of waste houlers including site, if a disposal site. Reback & Co. Hame out of business Street Time Periods such Hauler Transparence	other (specify) ng your company tran	Telepho State 1954 to 196	4
	A. 中国中国中国中国中国	g.	Homes of waste houlers including site, if a disposal site, Reback & Co. Home out of business Street Time Periods such Hauler Transp	other (specify) ng your company tran	sporting such w Telepho	4
	The secretary of the secretary than	g.	Homes of waste houlers including site, if a disposal site. Reback & Co. Home out of business Street Time Periods such Hauler Transpiller	other (specify) ng your company tran	Telepho State 1954 to 196	4
	· · · · · · · · · · · · · · · · · · ·	s.	Homes of waste houlers including site, if a disposal site. Reback & Co. Name out of business Street Time Periods such Hauler Transplants Name	city City City	State 1954 to 196	4
	· · · · · · · · · · · · · · · · · · ·	g.	Homes of waste houlers including site, if a disposal site. Reback & Co. Home out of business Street Time Periods such Hauler Transpire. Name Street	City City City City City City Corted to this Site	State 1954 to 196 Telepho	4
	· · · · · · · · · · · · · · · · · · ·	8.	Homes of waste houlers including site, if a disposal site. Reback & Co. Name out of business Street Time Periods such Hauler Transplants Name	City City City City City City Corted to this Site	State 1954 to 196 Telepho	4
	The second secon	g.	Homes of waste houlers includit site, if a disposal site. Reback & Co. Name out of business Street Time Periods such Hauler Transplant Amms Street Time Periods such Hauler Transplant List Hames and Addresses of other	City City City City City City Corted to this Site	State 1954 to 196 Telepho	4
	The second secon	g.	Homes of waste houlers including site, if a disposal site. Reback & Co. Hame out of business Street Time Periods such Hauler Transplant Name Street Time Periods such Hauler Transplant List Names and Addresses of oth Unknown Name of Company	City City City City City City Corted to this Site	State 1954 to 196 Telepho	4
	以一次一个一种中央一种的一种的一种一种一种一种一种一种一种一种一种一种一种一种一种一种一种一种一	g.	Homes of waste houlers including site, if a disposal site. Reback & Co. Name out of business Street Time Periods such Hauler Transplant Name Street Time Periods such Hauler Transplant Unknown	City City City City City City Corted to this Site	State 1954 to 196 Telepho	4

Page Thice

	separate sheet for each site).	odern Disposal Land	, Fill	
b.	Name of Site S. Washuta/Modern Disposal Land Fill Location Model City, New York			
	Owner or Operator S. Washuta/Modern Disposal			
c.	•			
ď.	Time Period Site was Used19			
٠.	Describe Waste Types Treated or Disposed at this Site	Physical State		Type of Co
(1)	Carbonaceous furnace	Dry granules.		None
	insulation	chunks & dust.		
(2)	Spent refractorics	Bricks & con-		None
		crete blocks.	1000 yd. 3/mo	
(3)	Sand	Dry particles		None
		,	2500 vd. 3/mo	
(4)	Scrap extruded & baked car-	Chunks, broken		None
	bon materials	rods, shavings		
(5)	Obsolete or non-repairable mechanical & electrical	•	Small	None
143	equipment Vices of Oli	T tout d	Fat made a	
	Vastes Ware X land.dispose	Liquid Inciparate	Est. under 300 gal/yr recla	Drun
g.	Rames of waste houlers including site, if a disposal site. Modern Disposal Service		sporting soch wa	stes to th
•	Hame		Talephone	•
	Model City Road, Lewist	ton. New York 1409	2	
	Street	City	State	
		city	41010	
	Time Periods such Hauler Transp			
	Time Periods such Hauler Transp			
	è 1.	ported to this Site	1964-1972	
	Name Street	ported to this Site	. Telephoni	
	Name Street Time Periods such Hauler Trans	city	1964-1972 Telephone	•
h.	Street Time Periods such Hauler Trans	city	1964-1972 Telephone	•
h.	Street Time Periods such Hauler Trans List Hames and Addresses of other	city	1964-1972 Telephone	•
h.	Street Time Periods such Hauler Trans List Hames and Addresses of other	city	1964-1972 Telephone	•

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Page Three

	Name of Site	Niagara Rec	veling Land Fill_			
b. Location Pine-Packerd- Rte. 190, Niagara F			ra Falls, NY			
c.	. Owner of Operator Niscara Recycling					
d.			1972 to present			
a,	Describe Waste To or Disposed at ti	ypes Treated	Physical State	Total Quantity	Type of Co	
(1)	Carbonaceous f	urnace	Dry granules,		None	
	insulation		chunks & dust.			
(2)	Spent refractor	ies	Bricks & con-	Estimate	None	
			crete blocks.	2500 yds 3/ma		
'n	Sand		Dry particles	growing to	None	
101		· ·		current		
a,s	Scrap extruded	& haked	Chunks, broken	4,000/mo	None	
(-)	carbon materia		rode, shavings	1,000,1110		
(5)	Obsolete or nor	a-repairable			None	
	equipment			Est. under		
• •	Tar & Lineced		Liquid	1500 gal/yr.	Drums	
٠,	Vestes Vere	x land djspo	sedincinerate	d	a incu	
g.	g. Names of waste haulers including your company transporting such wastes to site, if a disposal site. Regional Waste, A. Cerrone Inc. 716-282-1218					
	site, if a disp Regional	Waste, A. Ce	rrone Inc. 716-282			
	Regional			Z-1218 Telepho	në	
	Regional		garaFalls, NY		n e	
	Regional Name 4625 With	mer Road, Nia	garaFalls, NY	Telepho	•	
· ·	Regional Name 4625 With Street Time Periods su Niagara	mer Road, Nia	garaFalls, NY City sported to this Site	Telepho		
· · ·	Regional Name 4625 With Stroet Time Periods su Niagara	mer Road, Nia ch Hauler Trans Sanitation Co.	caraFalls, NY City sported to this Site Inc. 716-693-5185	Telepho	75	
	Regional Name 4625 With Stroet Time Periods su Niagara	mer Road, Nia ch Hauler Trans Sanitation Co.	garaFalls, NY City sported to this Site	Te lepho State 1972 to 19	75	
	Regional Name 4625 With Street Time Periods sur Niagara Hame 262 Pullr	ch Hauler Trans Sanitation Co.	city sported to this Site Inc. 716-693-5185 liagura Falls, NY	State 1972 to 19 Telephon	75	
h	Regional Name 4625 With Stroet Time Periods su Niagara Hame 262 Pulls Street Time Periods su	ch Hauler Trans Sanitation Co. than Avenue, N th Hauler Trans	caraFalls, NY City sported to this Site Inc. 716-693-5185	State 1972 to 19 Telephore State 1975 to pres	75	
h.	Regional Name 4625 With Street Time Periods sure Niagara Hame 262 Pulls Street Time Periods sure List Names and	ch Hauler Trans Sanitation Co. Than Avenue, N th Hauler Trans Addresses of o	caraFalls, NY City sported to this Site Inc. 716-693-5185 Tagura Falls, NY City sported to this Site ther Companies using	State 1972 to 19 Telephore State 1975 to pres	75	
h.	Regional Name A625 With Street Time Periods sure Niagara Hame 262 Pulls Street Time Periods sure List Names and Hooker Company	ch Hauler Trans Sanitation Co. Than Avenue, N th Hauler Trans Addresses of o	caraFalls, NY City sported to this Site Inc. 716-693-5185 Tagura Falls, NY City sported to this Site ther Companies using	State 1972 to 19 Telephore State 1975 to pres	75	
h.	Regional Name A625 With Street Time Periods sure Niagara Hame 262 Pulls Street Time Periods sure List Names and Hooker Company	ch Hauler Trans Sanitation Co. t . man Avenue, N th Hauler Trans Addresses of o	caraFalls, NY City sported to this Site Inc. 716-693-5185 Tagura Falls, NY City sported to this Site ther Companies using	State 1972 to 19 Telephore State 1975 to pres	75	

Church & White Hill is nother Asport or in 50

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

INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

PRIORITY CODE: 2a	SITE CODE: 932002
NAME OF SITE: Airco Speer Carbon-Graphite	REGION: 9
STREET ADDRESS: Packard Road at 47th Stre	et
TOWN/CITY: Niagara Falls	COUNTY: Niagara
NAME OF CURRENT OWNER OF SITE: Airco, Inc. ADDRESS OF CURRENT OWNER OF SITE: 4861 Pac	, Subsidiary of BOC Int. kard Road, Niagara Falls, NY
TYPE OF SITE: OPEN DUMP X S	TRUCTURE LAGOON TREATMENT POND
ESTIMATED SIZE: 2 ACRES	·
SITE DESCRIPTION:	•
This site is mainly land built up by clear carbonaceous furnace insulation, spent reequipment. An insulation mixture contain fill. New plant buildings were built on used as disposal sites. Most of the area control and cleanup of dust. All drainages the Niagara Falls WWRP. This same area was International Graphite and Electrode befor assumed half and then full ownership. Quare given for 1930 to 1954. The USGS same taking three soil borings. the samples we with results of the analysis pending.	fractories and non-repairable ing asbestos was also used for much of the same area formerly is paved to facilitate e is caught and directed to as used as a disposal site by re 1930 when Airco Speer antities of wastes shown below apled this site in 1982 by
	•
HAZARDOUS WASTE DISPOSED: CONFIRMED	SUSPECTED
TYPE AND QUANTITY OF HAZARDOUS WASTES DISP	OSED.
TYPE	QUANTITY TONS, GALLONS)
Furnace insulation, refractories & sand	28,800 to 144,000 cu. yds.
Carbon materials	
Obsolete equipment	small
Linseed Dil (after 1942)	2,500 gallons
Coal tar chemicals	
Asbestos fiber and tape	7 Tons PAGE 9-353

FINE PERIOD SITE WAS USED FOR HAZARDOUS	S WASTE DISPOSAL:	
, 19 <u>30</u>	TO, 19 <u>54</u>	
OWNER(S) DURING PERIOD OF USE: Before	1930 Inter. Graphite & Electrode, 1930-54 A	rco S(
SITE OPERATOR DURING PERIOD OF USE: A		•
ADDRESS OF SITE OPERATOR: 4861 Packar	d Road, Niagara Falls, NY 14302	•
ANALYTICAL DATA AVAILABLE: AIR	SURFACE WATER GROUNDWATER	
SOIL X	SEDIMENT NONE	
CONTRAVENTION OF STANDARDS: GROUNDW. SURFACE		
SOIL TYPE: Topsoil, red clay 7 bedroc	k at 4-6 feet	
DEPTH TO GROUNDWATER TABLE: Unknown		
LEGAL ACTION: TYPE: None	STATE FEDERAL COMPLETED	
STATUS: IN PROGRESS	COMPLETED UNDER DESIGN	
REMEDIAL ACTION: PROPOSED	COMPLETED -	
NATURE OF ACTION: N/A		, A
ASSESSMENT OF ENVIRONMENTAL PROBLEMS: No known environemntal problems at the await results from USGS sampling	is site. Final assessment must	·.
ASSESSMENT OF HEALTH PROBLEMS:		
ASSESSMENT OF MEACHT PRODUCTS.		
	- INSTRACTOR THE CANATORS	
	•	
PERSON(S) COMPLETING THIS FORM:		
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	NEW YORK STATE DEPARTMENT OF HEALTH	
NAME Robert Senior	NAME R. Tramontano	
TITLE Senior Sanitary Engineer	TITLE Bur. Tox. Subst. Assess.	
NAME Peter Buechi	NAI 1E	
TITLE Associate Sanitary Engineer	TITLE	(
DATE: November 21, 1983	DATE: 12/83	

PAGE

INTERVIEW FORM

INTERVIEWEE/CODE Jun Sneider Mi TITLE - POSITION NVSDEC DIV O	ke Wilkenson
TITLE - POSITION NVSDEC Div o	1 Fish wildlike
ADDRESS VIOLATIONE HILL.	
CITY Ruffalo	STATE NY ZIP
PHONE (')	RESIDENCE PERIODTO
ECCATION IN DEC office	INTERVIEWER Eleen Millipan
DATE/TIME 1/10/85 7 1/1/185 /	
SUBJECT: Phase T site inf	at ma Year
•	•
REMARKS: The above-hamed us with the fallowing our Phase T site (see	intervieween provided
us with the following	information regarding
our Phase T site (see	attached list
<u> </u>	
D Wetlande in Viagare	a Co. & proximite to sites
2) Types of yesh't wildlife	e in Frie Miagara area
2) Types of typh wildlife 3) Use by theh wildle * Tributaries	ile, of Niapara River
* tributarien	, , , , , , , , , , , , , , , , , , , ,
4) Sensitive enveronmen	de & proposed
wetlands in the Ene	Neapara area
Airco Speer Carson Site	
- There are no critic	
species within 1 m	
I AGREE WITH THE ABOVE SUMMARY OF THE IN	TERVIEW:
SIGNATURE: James K. Inides - S	1. Wildlife Brologest
Whickael a. William - Ct	moderation Billogert (Chybalic)
COMMENTS: 910 glejoussion	wetlands fieldlife regarding
mina Landfill site - refe	med to Olean Ciffice
V	

NAME OF LANDFILL

AIRCO SPEER CARBON - GRAPHITE (DEC #932002)

- LOCATION

.4861 Packard Road at 47th Street Niagara Falls, New York 14302

OWNERSHIP

The site is currently owned by Airco Speer Carbon - Graphite.

PREVIOUS OWNERSHIP

The site was owned prior to 1930 by the International Graphite and Electrode Company. In 1930, the Speer Carbon Company purchased a 50 percent interest in the facility and assumed full ownership in 1932.

Speer Carbon became a subsidiary of Airco in 1961 and a division in 1962. Airco became a subsidiary of BOC International in 1978.

- HISTORY

Prior to 1930, International Graphite and Electrode disposed of its own wastes on this site. No information has been found to identify the type or quantity of wastes disposed of during this period. It appears likely that the wastes generated prior to 1930 would be similar to the wastes generated after 1930 by the Speer Carbon Company.

From 1930 to 1954, the Speer Carbon Company generated the following wastes: furnace insulation, refractories and sand (28,000 to 144,000 cubic yards), carbon materials, obsolete equipment, linseed oil, coal tar chemicals, and asbestos fiber (7 tons).

These materials were disposed of on site. The exact limits of the disposal area are not known. Wastes may be buried in the area beneath Graphite Plants 2, 3 and 4 and Bake Plants 1, 3 and 4. Other areas may also contain wastes. The site was filled to capacity by 1954.

From 1954 to 1964, the same wastes were hauled to the Union Carbide dump in Niagara Falls now operated by Newco Waste Systems. From 1964 to 1972, Modern Disposal Services hauled wastes and tar to its Model City site. From 1972, A. Cerrone and Niagara Sanitation have hauled all wastes to Newco. Currently, wastes are removed by Modern Disposal.

. INVESTIGATION

Historical information was extracted from DEC Hazardous Waste Disposal Site Directory and interviews with company personnel.

INVESTIGATION (continued)

County Health Department on June 16, 1981. From this visit it was noted that nearly the entire surface of the site was either paved with asphalt concrete, had plant buildings on it or appeared otherwise impervious. All runoff is channelled through roof drains or by the pavement to the city sever system. A large portion of the site is built on filled areas to a depth of about & feet above the surrounding topography. An interview with Mr. Scott panskin, Pollution Control Engineer for Airco Speer Carbon - Graphite, neither confirmed the exact location of the disposal sites, nor their contents.

Examination of USDA aerial photographs [1958] showed Graphite Plants 2, 3, 4 and 5 and Bake Plants 1, 2 and 3 in place at that time. Further investigation showed that these buildings were built from 1939 to 1956 in respective order given above. This being the case, it would seem likely that the disposal area was filled roughly from north to south. It was also noted from the USDA photograph that a pond occupied much of the area beneath what is now Graphite Plant No. 6. Mr. Scott Danskin has stated that Plant No. 6 was said to be built on clean fill.

S01L

The site is built on a filled area of unknown composition although it appeared to contain large amounts of carbon particles and fines. Buch of the site is said to be built on clean fill.

From information extrapolated from surrounding areas, it appears likely that the soil beneath the fill is either a Canandaigua or Odessa scries lake-laid silt-clay. Both these soils are poorly drained and deep (>6 fect). Both exhibit a profile of silty clay loam over clay. The permeability of the surface layer ranges from 0.2 to 0.63 in/hr while the subsurface is relatively impervious at <0.2 in/hr. In addition, the soil beneath the fill is likely to have been consolidated by the additional surcharge load of the fill and structures.

GEOLOGICAL GROUNDWATER INFORMATION

Bedrock consists of Lockport Dolomite to a depth of about

140 feet. A layer of glacial till may be found above the Dolomite. Lockport
Dolomite characteristically contains several water bearing zones; however, these
may be 30 feet to 40 feet or more below the surface. A perched water table may
exist above the clay layer of either Canandaigua or Odessa soils, accounting
for a possible seasonal high water table of less than 6 inches below the
surface. This water may disappear completely in the summer. However, the site
is built on filled material and most of the wastes are likely to be above this

level.

CONCLUSTONS

The potential for migration of hazardous substances from the site is small. This is evidenced by the small amount of hazardous material suspected to be present, the suspected location of most of the

CONCLUSIONS (continued)

- wastes above the normal seasonal high water table and that runoff is channelled to the sewer system by the impervious surface. In addition, there are no residences or bodies of surface water adjacent to this site.
- There is no possibility of asbestos becoming airborne at this time as the surface is paved and built upon.

SAMPLING

Samples were not taken from this site. Sampling was not recommended at this site on the grounds that the potential for migration of toxins from the site is small. If future samples are to be taken, they should be obtained from low areas around perimeter of site, preferably around all sides of the site as the direction of groundwater flow is not precisely known. Parameters for such analysis should include coal tar chemicals.

RECOMMENDATIONS

Periodic inspection of the side slopes of filled areas is recommended for signs of leachate. Care should be exercised in excavating any of the filled material not to expose asbestos material or allow water to enter the fill.

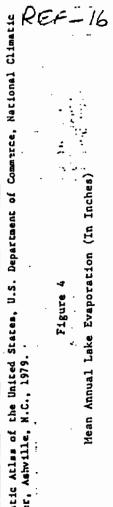
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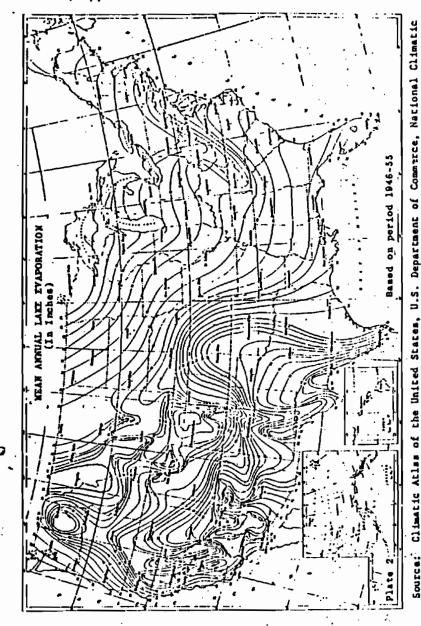
ROCHESTER DRILLING COMPANY LOGS, 1977

This data source was used during the Phase I study and was obtained from reference material used by Dames & Moore's geology staff. A thorough review of Phase I records has not found this information and, therefore, it can not be submitted herein. Missing information will need to be found or replaced with other relevant information during the Phase II effort.

US CENSUS DATA, 1980

US Census Data used in the HRS scoring was obtained from various County Planning Offices. This data was not obtained from a report. The raw census data combined with County Planning Maps was used to estimate the population within 1, 2, 3, and 4 miles of the Phase I site being investigated. Because of the voluminous amount of data used, the data is not provided in this Appendix.





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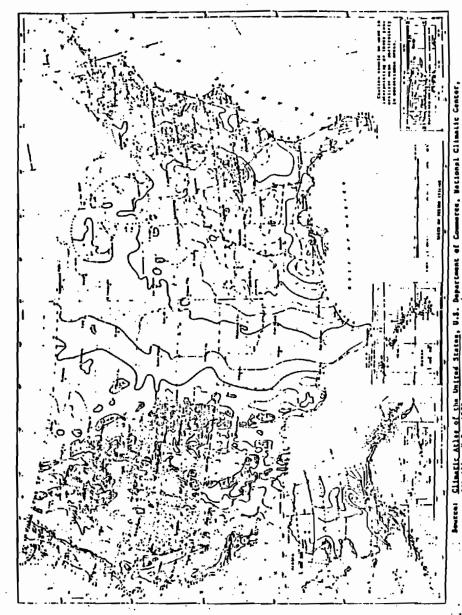
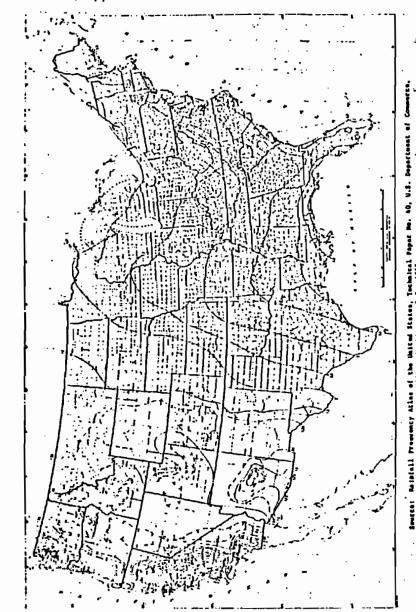


Figure 5
Normal Annual Total Precipitation (inches)





REF-18 Golf Course Cem Park BDY nuffy Ligh Se (384) Lights oLight CO Light CORP NIAGARA NIAGARA REGIONAL MONTH ERIE NIAGARA ERIE CO SCALE 1000 3000 4000 FEET ENGINEERING-SCIENCE, INC. IN ASSOCIATION WITH DAMES & MOORE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE I REPORT SITE LOCATION MAP AIRCO SPEER CARBON GRAPHITE FIGURE I-1

REFERENCE: U.S.G.S. 7.5' Topographic Map Niagara Falls, NY-ONT. (1980) and Tonawanda West, NY (1980) Quadrangles

Jiyde Park

Ningara St.

LATITUDE: 43°05'44" LONGITUDE: 79°00'08"

HYDE

General information and chemical migration resembles

The site is located in the city of Magaza Falls, and is shown on plate 3.

The site was used during 1930-45 for the disposal of 28,800 to 144,000 yd3 of furnace insulation, retractories, and sand as well as 2,500 call of linseed oil and 7 tons of asbestos fiber and tape.

Most of the area is paved to facilitate control and cleanup of process dust. From 1972 to 1981, wastes have been recreated and transported to a permitted disposal site.

The geology and disposal practices indicate the potential for contaminant migration to be minimal. Results of the soil sample monlyses indicate migration is occurring.

Figure Belongs near here

Genlosie inforgation

The site was built on a filled area of unknown composition overlying a lacustrine silty clay. Beneath the clay is Lockport Polomite. The P.S. Geological Survey drilled four test boring on the site in 1982 and locations are shown in figure. The geologic logs are as follows:

Figure Belongs near here

" retale No.	Perth (11)	Description
	0 - 2.0	Top soil.
1 ·	2.0 - 6.2	Clav, reddish, some sand, fairly drv. Sample: 6:2 ft.
2	0 - 4.0	Topsoil, black, gravel fill. Bit hedrock at 4.0 ft. Red clay mixed in.
:		SAUPLE: 4.0 fr.
3	0 - 2.1	Ted top soil. Hit bedrock at 2.0 ft.
4	0 - 1.5	Top soil, black.
	1.5 - 4.2	Clay, sandy, red, dry. Hit bedrock at 4.2 ft.
		SAMPLE: 4.0 fr.

Hydrologic inferration

Ground water appears to be contained in the fractures within the hadrock and was not encountered during the 1982 drilling.

Chemical information

Four soil samples were collected at each test boring for organic compound analyses; the samples exceeded holding time and had to be resampled. The samples were recollected in May 1983. The results are given in table.

There were 14 organic priority pollutants found, some in concentrations as high as 61,000 ug/Kg. There were five organic compriority pollutants found.

Table	bolonge	near hero		
19016	110 1 111 2			

Table .--Analyses of substrate samples from Airco Speer Carbon-Trachite, Niagara Falls, N.Y. (Locations shown in fig. . . Concentrations are in give; dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.)

First sampling (07-14-82)	Sample num 1 6.0	ther and dept 2 4.0	th below land so 3 2.0	irface (ft) 4 4.0
Organic compounds	**	**	**	**

	Sample number and deposit 24	pth belo≃ land 3A	surface (ft)
Second sampling (05-27-83)	4.0	2.0	4.0
Inorgania compound			
Molecular sulfur .	3, 000		
Organia compounds			
Priority pollutants			
Pyrere	8,000	i.T	32,000
Acenaphthene			13"
Fluoranthene	9,160		34,000
Benzo(a)anthracene	7,100	·	24,000
Benzo(a)pyrene	7,900		49,000
3,4-Benzof lugranthene	14,4 a		43,000
Chrysene	5,600	'. 	23,000
Acenaphthylene	LT		LT
Anthracene	. LT:		2,000
Benzo(ghi)perylene	4,600		13,000
Fluorene	L.F		ίΤ
Phenanthrene	4,000		19,000
Dibenzo(a,h)anthracene	~ =	·	12,000
Indeno(1,2,3-cd)pyrene	30,000		61,000
Nonpriority pollutants	1		
A Dibenzofuran	LT		· LT
Carbonsulfide	LT	`	
Methylphenanthrenel			12,000
Benzo(b)naphthothiophene1			2,600
Methylbenzo(a)anthracenel			2,000

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

^{**} Analyzed at detection limit above that required by this study. No other compounds detected.

2. AIRCO SPEER CARBON-GRAPHITE (USGS field reconnaissance)

NYSDEC 932002

General information and chemical-migration potential.—The Airco Speer Carbon-Graphite site, in the city of Wheatfield, was used during 1930-45 for the disposal of 28,800 to 144,000 yd³ of furnace insulation, refractories, and sand as well as 2,500 gal/min of linseed oil and 7 tons of asbestos fiber and tape. Most of the area is paved to facilitate control and cleanup of process dust.

The overburden at several points on the site is only 4 to 6 ft deep, and the chemical analyses indicated high concentrations of organic priority pollutants. The potential for contaminant migration is indeterminable.

Geologic information. -- The site was built on a filled area of unknown composition overlying a lacustrine silty clay. Beneath the clay is Lockport Dolomite. The U.S. Geological Survey drilled four test boring on the site in 1982; locations are shown in figure C-1. The geologic logs are on page 291.

Hydrologic information. -- Ground water appears to be contained in the fractures within the bedrock and was not encountered during the 1982 drilling.

Roring no.	Depth (ft)	Description
1	0 - 2.0 2.0 - 6.2	Topsoil. Clay, reddish, some sand, fairly dry. Sample: 6.2 ft.
2	0 - 4.0	Topsoil, black, gravel fill. Hit bedrock at 4.0 ft. Red clay mixed in. SAMPLE: 4.0 ft.
3	0 - 2.1	Red top soil. Hit bedrock at 2.0 ft. sample: 2.0 ft.
4	0 - 1.5 1.5 - 4.2	Top soil, black. Clay, sandy, red, dry. Hit bedrock at 4.2 ft. SAMPLE: 4.0 ft.

Chemical information.—The U.S. Geological Survey collected four soil samples at each test boring for organic compound analyses, but the samples exceeded holding time and were recollected in May 1983. Results are given in table C-1. The samples contained 14 organic priority pollutants, some in concentrations as high as 61,000 ug/kg, and five organic nonpriority pollutants.

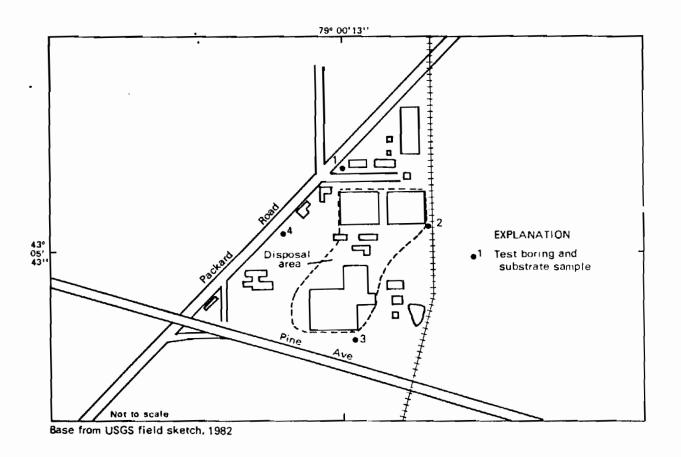


Figure C-1. Location of sampling holes at Airco Speer Carbon-Graphite, site 2, Wheatfield.

Table C-1.--Analyses of substrate samples from Airco Speer Carbon-Graphite, site 2, Wheatfield, N.Y.

[Locations shown in fig. C-1. Concentrations are in µg/kg; dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.]

	Sample	number and depth		
	1	2	3	4
First sampling (07-14-82)	(6.0)	(4.0)	(2.0)	(4.0)
Organic compounds	***	***	***	***
	Sample	number and depth	below land	surface (ft)
Second sampling (05-27-83)		2A (4.0)	3A (2.0)	4A (4.0)
Inorganic compound				
Molecular sulfur		3,000		
Organic compounds				
Priority pollutants				
Pyrene		8,000	LT	32,000
Acenaphthene				LT
Fluoranthene		9,100		34,000
Benzo(a)anthracene		7,100		24,000
Benzo(a)pyrene		7,900		49,000
3,4-Benzofluoranthene		13,000		43,000
Chrysene		5,600	. 	23,000
Acenaphthalene		LT		LT
Anthracene		LT		2,000
Benzo(ghi)perylen e		4,600		13,000
Fluorene		LT		LT
Phenanthrene		4,000		19,000
Dibenzo(a,h)anthracene				12,000
Indeno(1,2,3-cd)pyrene		30,000		61,000
Nonpriority pollutants				
Dibenzofuran		LT		LT
Carbon disulfide		LT		
Methylphenanthrene ¹				2,000
Benzo(b)naphthothiophenel				2,000
Methylbenzo(a)anthracene ¹				2,000

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

^{***}Analyzed at detection limit above that required by this study. No other compounds detected.

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APPENDIX B
PROPOSED UPDATED NYS REGISTRY SHEET

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

CLASSIFICATION CODE: 2a

REBION: 9

SITE CODE: 932002

NAME OF SITE: Airco Speer Carbon-Graphite STREET ADDRESS: Packard Road at 47th Street TOWN/CITY: COUNTY:

Niagara

ZIP:

SITE TYPE: Open Dump-.

Niagara Falls

Structure- Lagoon- Landfill-X Treatment Pond-

ESTIMATED SIZE: 2 Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME....: Airco, Inc., Subsidiary of BOC Int. CURRENT OWNER ADDRESS.: 4861 Packard Road, Niagara Falls, NY OWNER(S) DURING USE...: Before '30,Int. Graph&Elec,1930-54AircoS

OPERATOR DURING USE ...: Airco Speer

OPERATOR ADDRESS.....: 4861 Packard Rd, Niagara Falls, NY 14302 PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From 1930 To 1954

SITE DESCRIPTION:

This site is mainly land built up by clean fill. Material such as carbonaceous furnace insulation, spent refractories and non-repairable equipment. An insulation mixture containing asbestos was also used for fill. New plant buildings were built on much of the same area formerly used as disposal sites. Most of the area is paved to facilitate control and cleanup of dust. All drainage is caught and directed to the Niagara Falls WWRP. This same area was used as a disposal site by International Graphite and Electrode before 1930 when Airco Speer assumed half and then full ownership. Quantities of wastes shown below are given for 1930 to 1954. The USGS sampled this site in 1982 by taking four soil borings. The samples were recollected in May 1983. Fourteen organic priority pollutants were found in soil samples, some as high as 61 PPM.

HAZARDOUS WASTE DISPOSED: Confirmed-X Suspected
TYPE GUANTITY (units)

Furnace insulation, refractories & sand

28,800 to 144,000 cu yds

Carbon materials

Obsolete equipment small

Linseed Bil (after 1942) Coal tar chemicals

Asbestos fiber and tape

2,500 gallons

7 Tons

SITE CODE: 932002

'ANALYTICAL DATA AVAILABLE:

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

CONTRAVENTION OF STANDARDS:

_Groundwater- Drinking Water- Surface Water- Air-

- LEGAL ACTION:

TYPE..: None X State- Federal-

STATUS: In Progress- Completed-

- REMEDIAL ACTION:

Proposed- Under Design- In Progress- Completed-

. NATURE OF ACTION:

GEOTECHNICAL INFORMATION:

SOIL TYPE: Red silt/clay

GROUNDWATER DEPTH: Unknown

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Insufficient information.

ASSESSMENT OF HEALTH PROBLEMS:

Insufficient information.

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF

ENVIRONMENTAL CONSERVATION

NAME .: Peter Buechi

FITLE: Associate Samitary Engineer

NAME .: Ahmad Tayyebi

TITLE: Asst. Samitary Engineer

DATE.: 01/24/85

NEW YORK STATE DEPARTMENT OF HEALTH

NAME .: R. Tramontano

TITLE: Bur. Tox. Subst. Assess.

NAME . !

TITLE:

5/15/85

DATE.: 01/24/85