

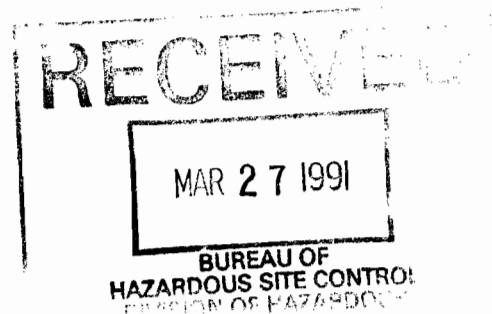
932016

# ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

## PRELIMINARY SITE ASSESSMENT

Great Lakes Carbon  
City of Niagara Falls

Site No. 932016  
Niagara County



Prepared for:  
**New York State**  
**Department of**  
**Environmental Conservation**

50 Wolf Road, Albany, New York 12233  
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Division of Hazardous Waste Remediation  
Michael J. O'Toole, Jr., *Director*

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

March 1991

NYSDEC CONTRACT NO. D002472

NYSDEC WORK ASSIGNMENT NO. D002472-6

E.C. JORDAN CO.

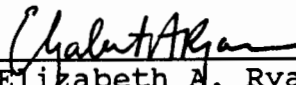
FINAL REPORT

TASK 1: DATA RECORDS SEARCH AND ASSESSMENT  
PRELIMINARY SITE ASSESSMENT

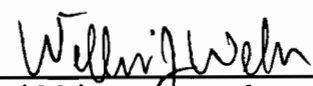
GREAT LAKES CARBON  
SITE NO. 932016  
NIAGARA COUNTY

MARCH 1991

Submitted by:

  
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Project Manager  
E.C. Jordan Co.

Approved by:

  
William J. Weber  
NSSC Program Manager  
E.C. Jordan Co.

## NOTICE

This Preliminary Site Assessment report about the Great Lakes Carbon Site (Site No. 932016), located in Niagara County, New York was prepared expressly for the New York State Department of Environmental Conservation (NYSDEC) under the Superfund Standby Contract (No. D002472, Work Assignment No. D002472-6). The purpose of this report is to provide information necessary for NYSDEC to reclassify the site according to the Classes 2, 3, and Delist categories described in Section 2.0 of this report. The conclusions and recommendations in this report represent E.C. Jordan's professional judgment and opinion based on present, generally accepted engineering practices for conducting preliminary site characterizations and assessments. Conclusions in this report are based on records reviews, interviews, and site walkover performed by Jordan personnel. The health-based regulatory standards discussed in this report may change in the future. Levels of environmental contamination that are "acceptable" by current standards may not be so in the future.

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

## TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page No.</u>
1.0	EXECUTIVE SUMMARY. . . . .	1
2.0	PURPOSE. . . . .	6
3.0	SCOPE OF WORK. . . . .	7
	3.1 File Reviews. . . . .	7
	3.2 Site Walkover . . . . .	8
4.0	SITE ASSESSMENT. . . . .	10
	4.1 Site History. . . . .	10
	4.2 Site Topography . . . . .	10
	4.3 Site Hydrology. . . . .	11
	4.4 Contamination Assessment. . . . .	12
5.0	ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS. . . . .	17
	5.1 Hazardous Waste Deposition. . . . .	17
	5.2 Significant Threat Determination. . . . .	17
	5.3 Recommendations . . . . .	18

### GLOSSARY OF ACRONYMS AND ABBREVIATIONS

### APPENDICES:

APPENDIX A	REFERENCES
APPENDIX B	SITE INSPECTION REPORT (USEPA FORM 2070-13)
APPENDIX C	INTERVIEW DOCUMENTATION FORMS

## LIST OF FIGURES

Figure No.	Title	Page No.
1	Site Location Map. . . . .	3
2	Site Sketch Map. . . . .	4

## LIST OF TABLES

Table No.	Title	Page No.
1	Summary of Selected Surface Water Sampling Results . . . . .	14
2	Summary of Selective Stream Sediment Sampling Results. . . . .	15
3	Summary of Selective Soil Sampling Results. . . . .	16

## 1.0 EXECUTIVE SUMMARY

The Great Lakes Carbon (GLC) Site is a 7-acre landfill within the GLC manufacturing facility located at 6200 Niagara Falls Boulevard, City of Niagara Falls, New York. (Figure 1). GLC manufactures carbon and graphite products. The site is currently used to store scrap wood and metal, cracked carbon shapes, and finished products. GLC has owned the property since 1939 and from 1939 to 1966 disposed of industrial wastes on the site. Wastes generated since 1966 have been disposed off-site through Modern Disposal Services or recycled by GLC. Waste materials disposed in the landfill include construction debris, coal dust, carbon graphite, solid pitch mold stock wastes, electrodes, refractory sand, and wood. Most of the landfill is uncovered except for the southern slope which has been graded and vegetated with grass. There is no synthetic or clay liner under the landfill. There is an estimated 79,000 cubic yards of waste buried at the site (NUS Corporation, 1985). It is not known if coal tar, which is used as a binder, was disposed in the landfill prior to 1966.

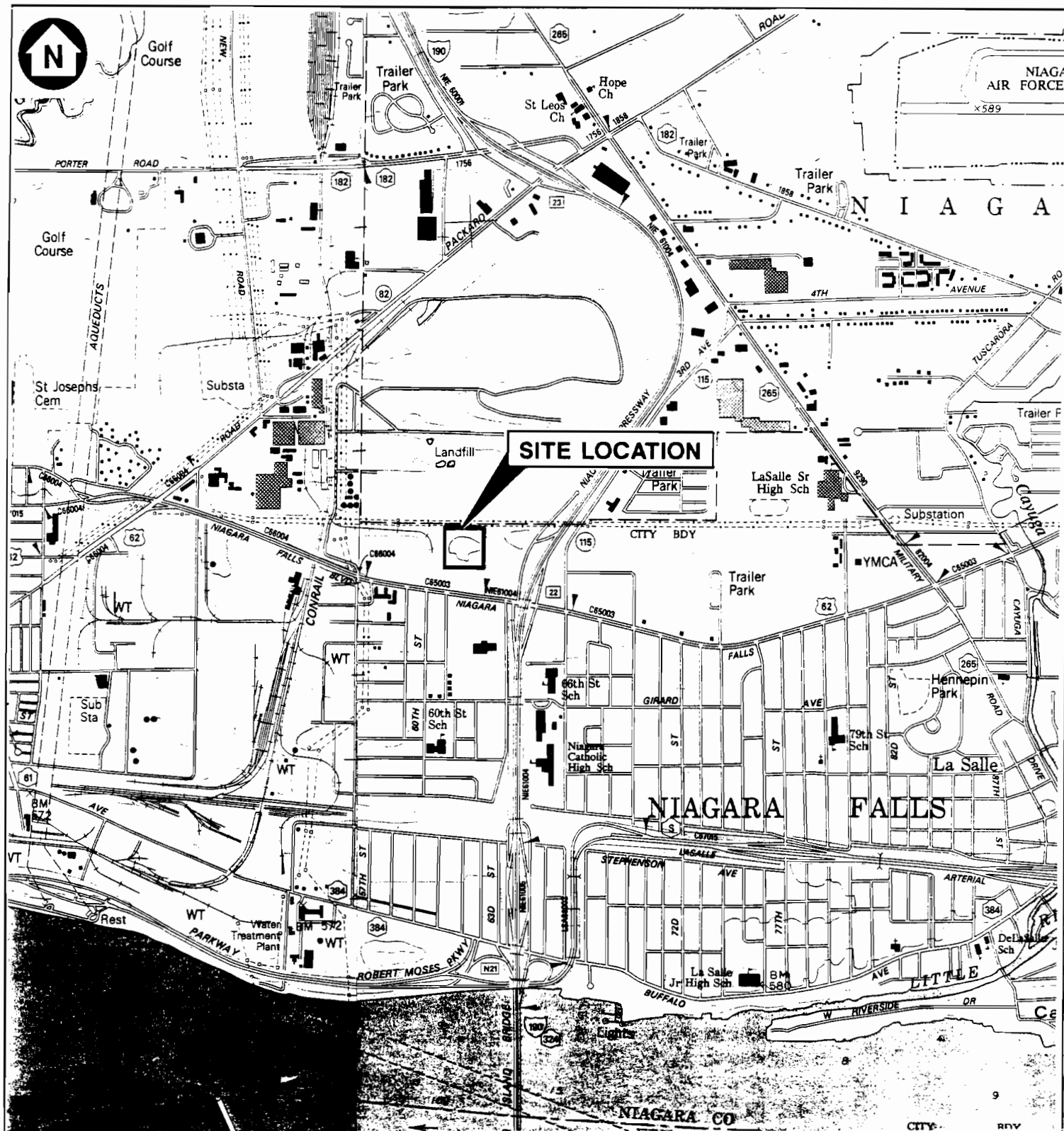
PCB capacitors and transformers were stored on-site. However, the liquids were drained, drummed, and shipped and disposed off-site by SCA Chemicals (Margolis, November 26, 1985). There are no capacitors currently on-site. Five transformers are stored on-site, however, three will be removed and the others will be used as spares.

E.C. Jordan Co. (Jordan) did not identify records documenting hazardous waste disposal at the GLC landfill. Analysis of soil, sediment, and surface water samples collected by the U.S. Geologic Survey (USGS) and the NUS Corporation detected the presence of phenols, volatile organic compounds, polynuclear aromatic hydrocarbons (PAHs), iron, magnesium, chromium, and semi-volatile organic compounds. Since GLC is located in a heavily industrialized area, it is not known if these contaminants are attributable to the landfill and/or off-site sources. There is no background soil and sediment data available for the site.

Based on the available information, Jordan cannot recommend changing the 2a classification of the GLC Site on the New York State Registry of Inactive Hazardous Waste Disposal Sites. To develop data to confirm or deny hazardous waste disposal, Preliminary Site Assessment (PSA) Task 3 activities should be initiated. Jordan recommends the installation of a groundwater monitoring well immediately adjacent to the southern boundary of the landfill. Groundwater should be sampled from this well and analyzed for U.S. Environmental Protection Agency (USEPA) Target Compound List (TCL) of organic and inorganic compounds and polychlorinated biphenyls (PCBs). These data will identify hazardous constituents that may be present in the landfill. In

addition, these data can be compared to typical municipal landfill leachate composition to further assess the possibility of hazardous waste disposal.

If hazardous waste disposal is documented based on PSA Task 3 activities, Jordan recommends PSA Task 4 activities be initiated. Jordan recommends the installation of two upgradient monitoring wells along the northern border of the landfill and two additional downgradient monitoring wells immediately adjacent to the southern slope of the landfill. Since groundwater is expected to flow north to south, these wells will detect potential groundwater contamination from the GLC landfill. Groundwater data will be compared to New York State Ambient Groundwater Standards to determine if a contravention of standards exist. These data will also be used to determine if there is a significant threat to public health or the environment from past activities at this site.



SOURCE: N.Y.S. DEPARTMENT OF TRANSPORTATION, NIAGARA FALLS AND TONAWANDA  
WEST QUADRANGLES DATED 1989, 7.5 MINUTE SERIES

SITE NO: 932016  
LOCATION: CITY OF NIAGARA FALLS  
NIAGARA COUNTY

**FIGURE 1**  
**SITE LOCATION MAP**  
**GREAT LAKES CARBON SITE**  
**PRELIMINARY SITE ASSESSMENT**  
**NEW YORK STATE DEC**

EC.JORDAN CO



SCALE IN FEET



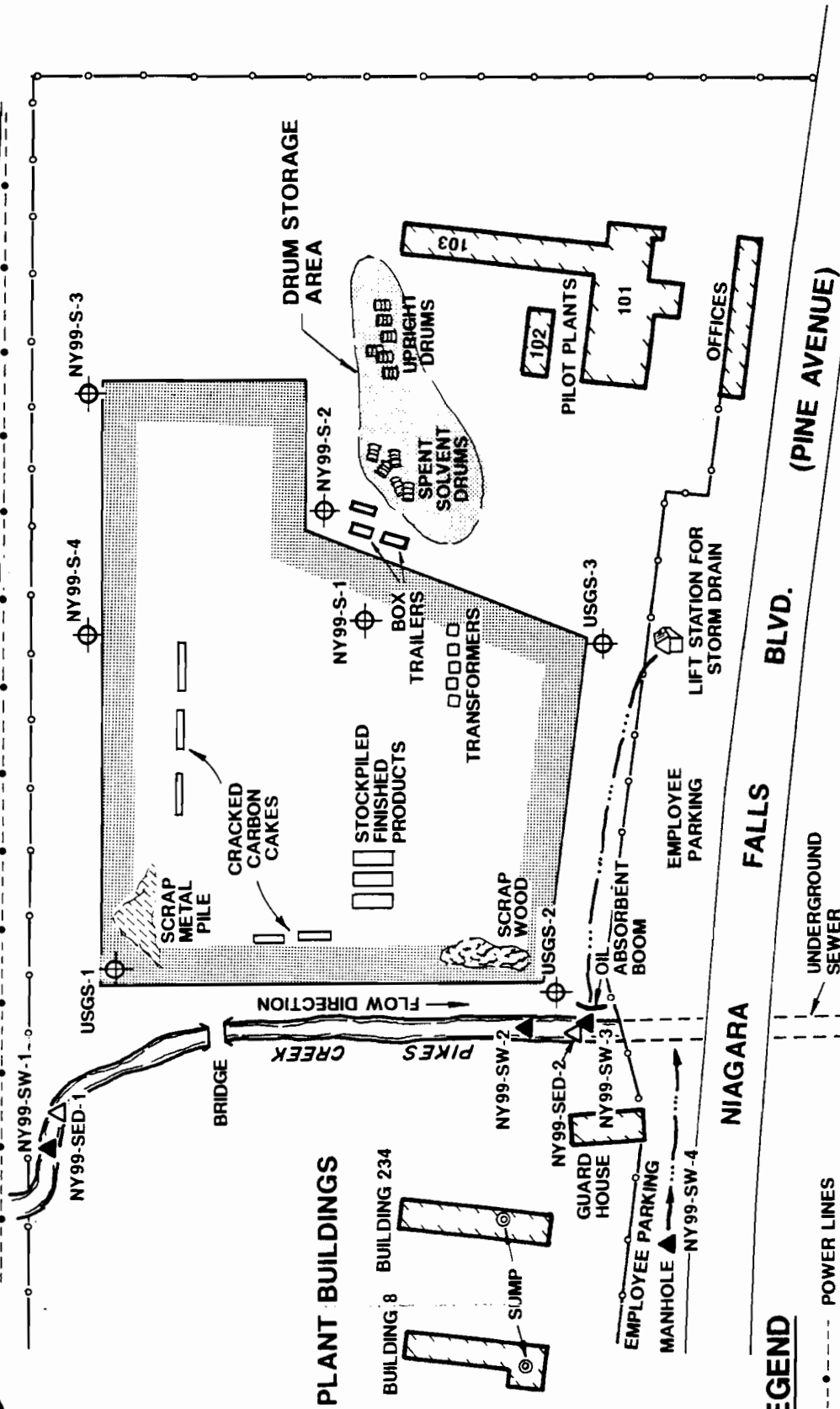




# CECOS/NECCO PARK LANDFILLS

WEED-FILLED DITCH

USGS-



## LEGEND

POWER LINES

DRAIN

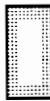
CHAIN-LINK FENCE AND  
PROPERTY BOUNDARY

NUS AND USGS SOIL SAMPLES

NUS AND USGS SURFACE WATER SAMPLES

NUS SEDIMENT SAMPLES

LANDFILL



**FIGURE 2**  
**GREAT LAKES CARBON LANDFILL**  
**PRELIMINARY SITE ASSESSMENT**  
**NEW YORK STATE DEC**

NOT TO SCALE

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

1. SITE NAME Great Lakes Carbon		2. SITE NO. 932016	3. TOWN City of Niagara Falls	4. COUNTY Niagara
5. REGION 9	6. CLASSIFICATION Current _____/Proposed <u>XX</u>		7. ACTIVITY <input type="checkbox"/> Add <input type="checkbox"/> Reclassify <input type="checkbox"/> Delist <input checked="" type="checkbox"/> Modify	
8a. DESCRIBE LOCATION OF SITE (Attach U.S.G.S. Topographic Map showing site location). The site is located at 6200 Niagara Falls Boulevard in the City of Niagara Falls, New York				
b. Quadrangle <u>Townwanda West</u> c. Site Latitude <u>43°05'30"</u> Longitude <u>78°59'38"</u> d. Tax Map Number _____				
9a. BRIEFLY DESCRIBE THE SITE (Attach site plan showing disposal/sampling locations) The site is located in an industrial area. The landfill is 5 to 7 feet above original topography. Surface topography is relatively flat and drains towards Pikes Creek on the western border of the landfill.				
b. Area <u>7</u> acres    c. EPA ID Number <u>D000218248</u> d. PA/SI <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No e. Completed: <input checked="" type="checkbox"/> Phase I <input type="checkbox"/> Phase II <input type="checkbox"/> PSA <input type="checkbox"/> Sampling				
10. BRIEFLY LIST THE TYPE AND QUANTITY OF THE HAZARDOUS WASTE AND THE DATES THAT IT WAS DISPOSED OF AT THIS SITE No hazardous waste was documented as being disposed of at this site.				
11a. SUMMARIZED SAMPLING DATA ATTACHED <input type="checkbox"/> Air <input type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Soil <input type="checkbox"/> Waste <input type="checkbox"/> EP Tox <input type="checkbox"/> TCLP. b. List contravened parameters and values No sampling was performed for this Preliminary Site Assessment Task 1.				
12. SITE IMPACT DATA a. Nearest surface water: Distance <u>10</u> ft.    Direction <u>west</u> Classification _____ b. Nearest groundwater: Depth <u>3</u> ft.    Flow Direction <u>south</u> <input type="checkbox"/> Sole Source <input type="checkbox"/> Primary <input type="checkbox"/> Principal c. Nearest water supply: Distance <u>2.5 miles</u> Direction <u>southeast</u> Active <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No d. Nearest building: Distance <u>100</u> ft.    Direction <u>west</u> Use <u>Manufacture</u> e. Crops or livestock on site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    j. Within a State Economic Development Zone? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No f. Exposed hazardous waste? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    k. For Class 2a: Code _____ Health Model Score _____ g. Controlled site access? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    l. For Class 2: Priority Category _____ h. Documented fish or wildlife mortality? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    m. HRS Score _____ i. Impact on special status fish or wildlife resource? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    n. Significant Threat <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown				
13. SITE OWNER'S NAME Great Lakes Carbon Corp.		14. ADDRESS 6200 Niagara Falls Blvd.		15. TELEPHONE NUMBER (716) 236-2888
16. PREPARER <u>Roger Bondeson</u> Environmental Scientist, E.C. Jordan Co. Name, Title and Organization <u>Roger Bondeson</u> Signature Date _____				
17. APPROVED _____ Name, Title and Organization _____ Date _____    Signature _____				

## 2.0 PURPOSE

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

Class 2 - Hazardous waste sites presenting a significant threat to the public health or the environment.

Class 3 - Hazardous waste sites not presenting a significant threat to the public health or the environment.

Delist - Sites where hazardous waste disposal is not documented.

PSA Task 1, Data Records Search and Assessment, was conducted at the GLC Site, Site No. 932016, in Niagara Falls, New York by E.C. Jordan Co. (Jordan) under the NYSDEC Superfund Standby Contract (Contract No. D002472, Work Assignment No. D002472-6).

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

### 3.0 SCOPE OF WORK

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

#### 3.1 File Reviews

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

On July 16, 1990 the Jordan team reviewed files at NYSDEC's Region 9 Office in Buffalo, New York. Files on the GLC Site were provided by Yavuz Erk, Environmental Engineer II, for NYSDEC Region 9. On July 17, 1990, Jordan personnel reviewed files at the Buffalo office of NYSDOH. On July 20, 1990, the Jordan team reviewed files at the Niagara County Health Department (NCHD) and conducted an interview with Paul Dicky, Public Health Engineer. Jordan personnel visited the Niagara County Soil and Water Conservation District on July 24, 1990 to obtain copies of aerial photographs. On July 25, 1990 the Jordan team visited the NYSDEC Region 9 Bureau of Wildlife to identify wetlands and critical habitat areas in the vicinity of the site.

The following individuals were interviewed:

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

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

### 3.2 Site Walkover

On July 24, 1990 a site walkover was conducted at the GLC Site. The following individuals attended the visit:

Name	Title	Affiliation
Roger Bondeson	Environmental Scientist	E.C. Jordan Co.
Cathy Lanois	Environmental Scientist	E.C. Jordan Co.
Sri Maddineni	Environmental Engineer II	NYSDEC Central Office
Yavuz Erk	Environmental Engineer II	NYSDEC Region 9
Mike Reelee, P.E.	Plant Engineer	Great Lakes Carbon Corporation

The site walkover began at 8:00 a.m. Before entering the site the field team calibrated a photoionization detector (PID) and explosimeter/oxygen meter to monitor ambient air quality during the inspection. The resulting data were used to confirm that worker health was protected and safety procedures could be instituted if concentrations were detected above background levels. No readings above background were detected in the ambient air.

A sketch of the site landfill is illustrated in Figure 2. The Jordan team walked along Pikes Creek that flows along the western edge of the landfill area. An oil absorbent boom, in front of a stormwater outfall, was observed in the creek. This boom reportedly is used to trap oils from surface run-off during storm events and in the event of an oil spill (Figure 2). The water in Pikes Creek had a milky appearance.

The Jordan team entered the landfill area from the small bridge located on the northwestern edge of the site. A pile of scrap metal containing metal molds, equipment parts, and empty 55-gallon containers was observed. The empty containers reportedly held raw product materials such as carbon fines. East and south of the metal pile were numerous pieces of carbon/graphite material that was cracked or defective. These items are reportedly reused and recycled by GLC. Much of the surface area of the landfill was graded and compacted but uncovered. Residual carbon/graphite fines were evident on the ground surface in many areas of the site. Jordan did not observe leachate outbreaks along the slopes of the landfill.

Finished graphite products, a scrap wood pile, and five transformers were on the southern portion of the landfill. Three of these transformers are reportedly to be removed off-site and the others kept on-site as spares (Reelee, 1990).

A drum storage area is east of the landfill. Several containers, located next to parked box trailers, are stored directly on the ground. Most of the containers appeared to be empty, although some contained rainwater or residual liquids. Some of these containers

were labeled "State Chemical". According to Mr. Reeley, these containers originally held cleaning solvents used in the machine shop (located in the Pilot Plant). PID meter readings inside one of these containers exceeded 1,000 parts per million (ppm) indicating the presence of volatile organic compounds. The cleaning solvents are reportedly used several times before being disposed of by the Frontier Chemical Company (Reeley, 1990). Other solvents used in the main manufacturing complex are reportedly collected and removed by Safety Kleen.

Several upright 55-gallon containers were also in the container storage area. These containers were uncovered and were observed to contain dust from dust collectors and lathe turnings from pilot plant operations. These materials are reportedly dumped into trash hoppers and removed by Modern Disposal Services.

The Jordan team toured portions of Buildings 234 and 8 located in the main manufacturing complex to observe sumps that collect and divert water from furnaces. The sumps and connecting drains are used to divert moisture and water away from the furnaces to prevent moisture damage in the carbon manufacturing process. Sump water is reportedly discharged to Pikes Creek. The sump in Building 234 is approximately 20 feet deep and reportedly contains groundwater from bedrock. PID meter reading over this sump were less than 1 ppm. The sump in Building 8 is shallow and contains groundwater from the soils. The PID meter reading from the sump in this building was 15 ppm.

Photographs of the landfill site were taken to be included in the site file. The site inspection was completed at 10:30 a.m.

## 4.0 SITE ASSESSMENT

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

### 4.1 Site History

The Great Lakes Carbon Corporation has owned and operated the GLC plant and landfill site since 1939. The GLC plant manufactures carbon based products such as carbon cathodes, graphite electrodes, granular carbon, and carbon graphite shapes for use as metal alloys.

Industrial wastes generated from the plant were disposed of in the 7-acre landfill area from 1939 to 1966. These wastes include coal dust, wood, refractory sand, carbon graphite, concrete, electrodes, and solid pitch mold stock wastes. It is estimated that 79,000 cubic yards of material was disposed at the site (NUS Corporation, 1985). The site is currently used to store defective carbon shapes, scrap metal and wood, five transformers, feed stock materials and finished products. The landfill is not capped and the surface has been graded and compacted. The southern slope of the landfill has been graded and is vegetated with grass.

The 7-acre landfill was also used to store PCB capacitors, however, these capacitors have been removed from the landfill site (E.C. Jordan site visit, July 24, 1990). The PCB contaminated liquids were reportedly drained from the capacitors, drummed and transported by SCA Chemicals to the Chem-trol Site in Lewiston, New York (Engineering Science, 1989) (Rosene, 1978).

From 1966 to the present, wastes have either been recycled by GLC or transported off-site to the Modern Landfill. Cracked carbon shapes, carbon dusts, and carbon sweepings are recycled by GLC and baghouse dusts, crushed stone, refractory brick, garbage, and solid pitch are disposed of in the Modern Landfill.

The USGS and the NUS Corporation have conducted field investigations at the site. In 1982 the USGS collected soil and surface water samples at the site, and in 1985 the NUS Corporation collected soil, surface water, and sediment samples at the site. The results of these sampling activities are discussed in the Contamination Assessment, subsection 4.4.

### 4.2 Site Topography

The GLC property consists of a 36-acre carbon/graphite manufacturing plant located at 6200 Niagara Falls Boulevard, Niagara Falls, New York. There is a 7-acre inactive landfill located between Buildings 103 and 234. The landfill is five to seven feet above the natural surface of the site. A small creek, referred to as Pikes Creek, flows north to south across the GLC

property and abuts the western edge of the landfill area. The creek receives runoff from the GLC landfill and from the CECOS landfill located north of the GLC property. The creek also receives cooling water, boiler blowdown water, sump water and storm water from the manufacturing process. These discharges are regulated through a NYSDEC State Pollutant Discharge Elimination System (SPDES) Permit, Number NY0000906.

The GLC property is bordered on the north by a Niagara Mohawk Power Corporation right-of-way and the CECOS Landfill. The southern property line is bordered by Niagara Falls Boulevard and other industrial commercial properties. Industrial/commercial properties also abut the eastern and western borders of the GLC property. Surface drainage generally flows south towards the Niagara River or is directed to storm drains. These storm drains discharge to Pikes Creek which is connected to the city storm water sewer lines which also drains into the Niagara River.

#### 4.3 Site Hydrology

The following paragraphs describe what is known about the hydrologic setting at the GLC landfill site.

The landfill contains carbon particles refractory sand and construction debris to an approximate depth of 5 to 7 feet. The soils on the GLC Site consist of Canadaigua silt loam (Soil Conservation Service, 1973). The soil profile based on borings drilled by the USGS in 1982 is as follows:

0 to 4ft	- Topsoil and Carbon Dust
4 to 6.5ft	- Clay
6.5 to 11.5 ft	- Clay

Bedrock beneath the site is expected to be Lockport Dolomite and is estimated to be 25 to 40 feet below surface (Engineering Science, 1989). The bedrock is expected to be overlain with glacial till and clay materials. Permeability of the soils is expected to be between  $10^{-5}$  to  $10^{-7}$  centimeters per second (Engineering Science, 1989). Seasonal perched water tables exist at depths of 2 to 4 feet (USEPA, 1985). Groundwater flow direction is unknown but expected to be north to south.

The nearest drinking water well is greater than three miles from the site. Drinking water for the properties surrounding the GLC site is provided by the City of Niagara Falls public water supply. The intakes for the public water system are located two miles downstream of the GLC Site. Olin Chemical, located on Buffalo Avenue and southwest of the GLC Site, uses groundwater for non-contact cooling water (Engineering Science, 1989 and Hopkins, May 8, 1986).



#### 4.4 Contamination Assessment

The 7-acre landfill site is not capped, lined, and does not have leachate or runoff collection systems. The landfill was used for the disposal of coal dust, carbon fines, wood, refractory sands, concrete, solid pitch mold stock, electrodes, and carbon/graphite shapes. The site was also used to store PCB capacitors. Oils from these capacitors were drained, drummed, and shipped off-site by SCA Chemicals (Rosene, 1978). It is estimated that 79,000 cubic yards of material were disposed of in the landfill (NUS Corporation, 1985).

In 1982 the USGS collected 3 soil samples and one surface water sample. The samples were analyzed for the four priority pollutants; naphthalene, anthracene, fluoranthene and pyrene and several non-priority pollutants. Naphthalene was the only priority pollutant detected above analytical detection levels and was found at a concentrations of 252 microgram per kilogram ( $\mu\text{g/kg}$ ) (USEPA, 1985). Non-priority pollutants such as p-1,1-dimethylethyl-phenol and benzoic acid were also detected at 5  $\mu\text{g/kg}$  and 21  $\mu\text{g/kg}$ , respectively. Contaminant concentrations in the surface water were not above USEPA criterion for maximum permissible concentrations in drinking water (USEPA, 1985).

In June 1985, NUS Corporation collected four soil, two sediment, and four surface water samples from the site. Sample locations are shown in Figure 2. All samples were analyzed for priority pollutants.

Surface water samples NY99-SW1 and NY99-SW2 contained phenols at 9 micrograms per liter ( $\mu\text{g/L}$ ) and 61  $\mu\text{g/L}$ , barium at 1,800  $\mu\text{g/L}$  and 298  $\mu\text{g/L}$ , and chromium at 53  $\mu\text{g/L}$  and 33  $\mu\text{g/L}$  (NUS Corporation, 1985). Table 1 summarizes surface water sample analysis results.

Surface water samples collected from the furnace sumps did not detect PAHs at levels above the analytical laboratory quantitation limits (sample site NY99-SW5). Sample analysis of NY99-SW4 did not detect hazardous organic compounds (NUS Corporation, 1985).

Analysis of sediment samples detected a number of volatile organic compounds (VOCs), PAHs, and inorganics (see Table 2). Those compounds detected at higher concentrations in the downstream sample, as compared to the upstream sample, included iron, magnesium and fluoranthene. Fluoranthene, the compound with the highest concentration of all constituents analyzed for, was detected at 60,000  $\mu\text{g/kg}$ . Compounds detected at higher concentrations in the upstream sample, as compared to the downstream sample, included barium, chromium, lead, manganese mercury and zinc.

Soil samples were collected from four locations at the GLC Site. Analysis of these samples revealed the presence of several semi-volatile compounds (SVOC) with concentrations as high as 180,000  $\mu\text{g/kg}$ . Depth of these soil samples ranged from 1 to 8 inches. Metals including lead, magnesium, manganese, mercury, nickel and zinc were also detected at elevated concentrations. These data are summarized in Table 3.

Summary sampling results for SPDES regulated discharges into Pikes Creek revealed that no contaminants were detected above quantifiable limits. These samples were analyzed for methylene chloride and volatile priority pollutants. SPDES regulated discharges includes waters from storm drains, boiler blow down, non-contact cooling water and sump waters from the main plant (NYSDEC, Division of Water, 1988, 1989).

**TABLE 1**  
**SUMMARY OF SELECTED SURFACE WATER SAMPLING RESULTS**  
**GREAT LAKES CARBON SITE**  
**PRELIMINARY SITE ASSESSMENT**

Monitoring Parameter	Monitoring Locations				NYS Surface Water Standards
	SW-1 (upstream)	SW-2 (downstream)	SW-3	SW-4	
Phenol	9	61	---	---	1.0
Barium	1,800	298	---	---	1,000
Calcium	390,000	223,000	62,200	37,700	---
Chromium	53	33	---	---	50
Iron	1,040	522	103	273	300
Magnesium	12,200	10,900	16,700	8,630	35,000
Manganese	128	51	105	26	300
Mercury	1.4	0.33	---	---	2.0
Zinc	30	23	26	201	300

Source: NUS Corporation, Presentation of Analytical Data from Great Lakes  
Carbon Corporation, Niagara Falls, New York, 9/27/85.

Analytical results presented in micrograms/liter (ug/l).

**TABLE 2**  
**SUMMARY OF SELECTIVE STREAM SEDIMENT SAMPLING RESULTS**  
**GREAT LAKES CARBON SITE**  
**PRELIMINARY SITE ASSESSMENT**

Monitoring Parameter	Monitoring Locations	
	SED-1 (upstream)	SED-2 (downstream)
Acetone (ppb)	130*	210*
Carbondisulfide (ppb)	23	8.3
Phenanthrene (ppb)	1	39,000
Flouranthene (ppb)	1	60,000
Pyrene (ppb)	1	51,000
benzo(a) anthracene (ppb)	1	33,000
chrysene (ppb)	1	38,000
benzo(b) fluoranthene (ppb)	1	38,000
benzo(k) fluoranthene (ppb)	1	29,000
benzo(a) pyrene (ppb)	1	35,000
Barium (ppm)	6,160	---
Chromium (ppm)	161	47
Iron (ppm)	11,700	13,500
Lead (ppm)	57	35
Magnesium (ppm)	8,150	10,600
Manganese (ppm)	473	447
Mercury (ppm)	7.2	0.41
Zinc (ppm)	201	171

Source: NUS Corporation, Presentation of Analytical Data from Great Lakes Carbon Corporation, Niagara Falls, New York, 9/27/85.

Analytical results for organics are presented in ug/kg (ppb).

\*Constituent detected in the laboratory blank as well as the sample.

1Compound present below specified detection limit.

Analytical results for metals are presented in mg/kg (ppm).

**TABLE 3**  
**SUMMARY OF SELECTIVE SOIL SAMPLING RESULTS**  
**GREAT LAKES CARBON SITE**  
**PRELIMINARY SITE ASSESSMENT**

Monitoring Parameters	S1	S2	S3	S4
Methylene Chloride	---*	428	488	438
1,1,1-Trichloroethane	---	7.9	---	---
Acenaphthene			1,600	
Phenanthrene	81,000	100,000	7,300	45,000
Anthracene	27,000	34,400	2,300	---
Fluoranthene	150,000	170,000	18,000	73,000
Pyrene	140,000	140,000	14,000	65,000
Benzo(a) Anthracene	100,000	110,000	11,000	42,000
Chrysene	120,000	140,000	14,000	46,000
Benzo(b) Fluoranthene	110,000	180,000	24,000	44,000
Benzo(k) Fluoranthene	80,000	110,000	20,000	38,000
Benzo(a) Pyrene	95,000	140,000	15,000	47,000
Indeno (1,2,3-cd)pyrene	41,000	44,000	8,700	---
Benzo (ghi) Pyrene	43,000	45,000	9,000	25,000
Delta - BHC	5,200	---	---	---
Arsenic	6.1	---	---	6.6
Chromium	51	87	19	51
Iron	11,800	11,600	6,560	20,400
Lead	83	108	22	102
Magnesium	34,400	10,600	---	---
Manganese	3,130	1,730	227	370
Mercury	2	0.54	---	0.57
Nickel	32	57	30	30
Zinc	856	286	86	219

Source: NUS Corporation, Presentation of Analytical Data from Great Lakes Carbon Corporation, Niagara Falls, New York, 9/27/85.

\* Analysis did not pass QA/QC requirements.

Analytical results for organic compounds are presented in ug/kg (ppb) and results for metals are presented in mg/kg (ppm).

## **5.0 ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS**

### **5.1 Hazardous Waste Deposition**

Information collected by Jordan did not confirm hazardous waste deposition at the GLC Landfill. Soil and water sample analyses by the USGS and the NUS Corporation indicate that hazardous materials such as PAHs, SVOC, and heavy metals are present in the soils and surface water near the landfill site. These samples were not analyzed for characteristics of Extraction Procedure toxicity, ignitability, corrosivity, or reactivity. The source or sources of these hazardous materials are not known and may be attributable to the site and/or off-site sources. Wastes reportedly disposed of at the site include coal dust, carbon fines, wood, refractory sands, concrete, solid pitch mold stock, electrodes, and carbon/graphite shapes.

### **5.2 Significant Threat Determination**

The threat to human health and the environment from the GLC landfill appears to be minimal. The landfill is secured by a chain-link fence and guarded. The nearest drinking water well is greater than 3 miles from the site (Engineering Science, 1989). The nearest wetland is 1.1 miles northeast of the site. Although surface and groundwater flow is towards the Niagara River and the GLC Site is upgradient from public water intakes, the threat of contamination to public water from the sewer outfall or potentially contaminated groundwater is very unlikely. The public water intakes are located 3,000 feet offshore. The strong river current in this area makes it unlikely that contaminants would travel 3,000 feet across the river to the intakes (Hopkins, 1986).

Soil data collected by the USGS in 1982 detected the presence of naphthalene (252  $\mu\text{g/kg}$ ). The significance of these findings is unknown because there are no standards or guidelines for soil composition to which they could be compared. Furthermore, no background soil samples were collected.

A surface water sample collected by the USGS did not detect contaminants in concentrations above USEPA maximum permissible concentrations in drinking water (USEPA, 1985)

In June 1985, the NUS Corporation collected four soil, two sediment, and four surface water samples from the site. All samples were analyzed for priority pollutant compounds. Analysis of the samples revealed the presences of phenols, VOCs, SVOCs, PAHs, iron, magnesium, and chromium in elevated concentrations. It is not know if these contaminants are attributable to the GLC Landfill and/or off-site sources. Background soil samples were not collected and therefore it is not certain if sample analysis reveals background levels for industrial areas or if contaminants are significantly higher than background levels.

Summary sampling results for SPDES regulated discharges into Pikes Creek in 1988 and 1989 revealed that no contaminants were detected above quantifiable limits. These samples were analyzed for methylene chloride and volatile organic priority pollutant compounds. SPDES regulated discharges include waters from storm drains, boiler blow down, non contact cooling water and sump waters from the main plant (NYSDEC, Division of Water, 1988, 1989).

From 1939 to 1966, GLC disposed of wastes such as construction debris, coal dust, carbon graphite, solid pitch mold stock, electrodes, refractory sands, and wood. Since 1966 generated wastes have been disposed off-site or recycled by GLC. Currently the site is used to store scrap metal, wood, finished products, and cracked carbon cakes. The landfill is unlined, uncapped and does not have a leachate or runoff collection system. It is not known if coal tar, which is used as a binder in the manufacture of carbon products, was disposed of in the landfill prior to 1966.

### 5.3 Recommendations

Information collected by Jordan did not confirm or deny the presence of hazardous wastes at the GLC Site. The information reviewed by Jordan was also insufficient to recommend delisting or reclassification of the site. The threat to human health and the environment appears to be minimal due to the distance and location of private drinking water wells, public water intakes, and wetlands.

To develop data to confirm or deny hazardous waste disposal, PSA Task 3 activities should be initiated. Jordan recommends the installation of a groundwater monitoring well immediately adjacent to the southern boundary of the landfill. Groundwater sampled from this well would be analyzed for USEPA TCL for organic and inorganic compounds and PCBs. These data would also be compared to analytical results of typical municipal landfill leachate compositions to determine if hazardous disposal has occurred.

If hazardous waste disposal is indicated by PSA Task 3 activities, Task 4 activities should be initiated. Jordan recommends installing two upgradient monitoring wells along the northern border of the landfill and two additional monitoring wells immediately adjacent to the southern slope of the landfill. Since groundwater flow is expected to be from north to south, these wells should detect potential groundwater contamination from the GLC landfill.

Jordan believes the threat to human health and the environment from the GLC Landfill is minimal. The nearest wetland is 1.1 miles northeast of the site and the nearest drinking water well is greater than three miles from the site. Public water intakes are located 3,000 feet offshore on the Niagara River.

## GLOSSARY OF ACRONYMS AND ABBREVIATIONS

GLC	Great Lakes Carbon
NCHD	Niagara County Health Department
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAHs	polynuclear aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PID	photoionization detector
ppm	parts per million
PSA	Preliminary Site Assessment
SPDES	State Pollution Discharge Elimination System
SVOC	semivolatile organic compounds
TCL	Target Compound List
µg/kg	microgram per kilogram
µg/L	microgram per liter
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geologic Survey
VOC	Volatile Organic Compounds



APPENDIX A  
REFERENCES

## REFERENCES

- Engineering-Science, 1989. "Engineering Investigations at Inactive Hazardous Waste Sites, Phase I Investigation, Great Lakes Carbon, site Number 932016", Prepared for New York State Department of Environmental Conservation, Division of Solid and Hazardous Waste, January, 1989.
- Hopkins, M., May 8, 1986. Niagara County Health Department, Interview with Engineering-Science for Phase I Investigation, May 8, 1986.
- Hopkins, M., June 11, 1986. Niagara County Health Department, "Memorandum to Larry Clare", June 11, 1986.
- Margolis, S., November 26, 1985. Department of Health and Human Services, Office of Health Assessment, Letter to W. Nelson, EPA Superfund Office, November 26, 1985.
- New York State Department of Environmental Conservation, Division of Hazardous Waste Remediation, Central Office, Albany, New York, Contact: Sri Maddineni.
- New York State Department of Environmental Conservation, Region 9, Division of Solid and Hazardous Waste, 584 Delaware Avenue, Buffalo, New York, Contact: Yavuz Erk, P.E.
- New York State Department of Environmental Conservation, Region 9, Bureau of Wildlife, 600 Delaware Avenue, Buffalo, New York.
- New York State Department of Environmental Conservation, "SPDES Permit No. NY00009066", Division of Water, Region 9, 600 Delaware Avenue, Buffalo, New York.
- New York State Department of Environmental Conservation, "SPDES Permit No. NY000 0906", Region 9, Division of Water, 600 Delaware Avenue, Buffalo, New York.
- New York State Department of Health, Corning Tower, The Governor Nelson A. Rockefeller Empire State Plaza, Albany, New York.
- New York State Department of Health, Regional Office, 584 Delaware Avenue, Buffalo, New York, Contact: Cameron O'Connor.
- New York State Department of Transportation, 1989, Topographic Map, Tonawanda West Quadrangle.
- Niagara County Health Department, 10th and East Falls Street, Niagara Falls, New York, Contact: Paul Dicky.

REFERENCES  
(Continued)

Niagara County Soil and Water Conservation District, Farm and Home Center, 4487 Lake Avenue, Lockport, New York 14095, Contact: Richard Tillman.

Niagara Falls, Tax Assessor's Office, City Hall, Niagara Falls, New York.

NUS, 1985. NUS Corporation, "Presentation of Analytical Data From Great Lakes Carbon Corporation", Prepared for Environmental Services Division, U.S. Environmental Protection Agency, September 27, 1985.

Reele, Mike, Great Lakes Carbon Corporation, 6200 Niagara Falls Blvd, Niagara Falls, New York 14302, "E.C. Jordan Site Visit and Personal Interview", July 24, 1990.

Rosene, R.W., November 2, 1978. Great Lakes Carbon Corporation, Letter to P.J. Millock, Interagency Task Force on Hazardous Waste, November 2, 1978.

USEPA, 1985. "Preliminary Evaluation of Chemical Migration to Groundwater and the Niagara River from Selected Waste Disposal Sites, 1985.

APPENDIX B

SITE INSPECTION REPORT  
(USEPA FORM 2070-13)



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000218248

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)

Great Lakes Carbon

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER

5600 Niagara Falls Blvd.

03 CITY

Niagara Falls

04 STATE

New York

05 ZIP CODE

14302

06 COUNTY

Niagara

07 COUNTY CODE

063

08 CONG. DIST

33

09 COORDINATES

LATITUDE

43° 05' 30" \_

LONGITUDE

078° 59' 38" \_

10 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE

☐ B. FEDERAL

☐ C. STATE

☐ D. COUNTY

☐ E. MUNICIPAL

☐ F. OTHER

☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION

7 / 24 / 90

MONTH DAY YEAR

02 SITE STATUS

☐ ACTIVE

☒ INACTIVE

03 YEARS OF OPERATION

1939

1966

UNKNOWN

BEGINNING YEAR

ENDING YEAR

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA

☐ B. EPA CONTRACTOR

☐ C. MUNICIPAL

☐ D. MUNICIPAL CONTRACTOR

☐ E. STATE

☒ F. STATE CONTRACTOR

(Name of firm)  
E.C. Jordan Co.

☐ G. OTHER

(Name of firm)

(Specify)

05 CHIEF INSPECTOR

Roger L. Bondeson

06 TITLE

Environmental Scientist

07 ORGANIZATION

E.C. Jordan Co.

08 TELEPHONE NO.

(207) 775-5401

09 OTHER INSPECTORS

Cathy Lanois

10 TITLE

Environmental Scientist

11 ORGANIZATION

E.C. Jordan Co.

12 TELEPHONE NO.

(207) 775-5401

Sri Maddineni

Environmental Engineer II

NYSDEC

(518) 457-0638

Yavuz Erk

Environmental Engineer II

NYSDEC-Region 9

(716) 847-4585

13 SITE REPRESENTATIVES INTERVIEWED

14 TITLE

15 ADDRESS

16 TELEPHONE NO.

Mike Reece

Plant Engineer

Great Lakes Carbon, P.O. Box 667  
6200 Niagara Falls Blvd.

(716) 236-2888

Niagara Falls, New York 14302

17 ACCESS GAINED BY

(Check one)

☒ PERMISSION

☐ WARRANT

18 TIME OF INSPECTION

8:30 am

19 WEATHER CONDITIONS

IV. INFORMATION AVAILABLE FROM

01 CONTACT

Sri Maddineni

02 OF (Agency/Organization)

NYSDEC

03 TELEPHONE NO.

(518) 457-0638

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM

Roger L. Bondeson

05 AGENCY

06 ORGANIZATION

E.C. Jordan Co.

07 TELEPHONE NO.

(207) 775-5401

03 DATE

7 / 24 / 90  
MONTH DAY YEAR



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

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000218248

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☒ A. SOLID  
☒ B. POWDER, FINES  
☐ C. SLUDGE  
☐ D. OTHER  
☐ E. SLURRY  
☐ F. LIQUID  
☐ G. GAS

(Specify)

02 WASTE QUANTITY AT SITE  
(Measures of waste quantities must be independent)

TONS  
CUBIC YARDS 79,000  
NO. OF DRUMS

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC  
☐ B. CORROSIVE  
☐ C. RADIOACTIVE  
☒ D. PERSISTENT  
☐ E. SOLUBLE  
☐ F. INFECTIOUS  
☐ G. FLAMMABLE  
☐ H. IGNITABLE  
☐ I. HIGHLY VOLATILE  
☐ J. EXPLOSIVE  
☐ K. REACTIVE  
☐ L. INCOMPATIBLE  
☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			unknown
IOC	INORGANIC CHEMICALS			unknown
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04/STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
PSD	Phenanthrene	85-01-8	00	39,000-100,000	ug/kg-soil
PSD	Fluoranthene	206-44-6	00	60,000-170,000	ug/kg-soil
OCC	Phenol	108-95-2	00	61	ppb-soil
PSD	Naphthalene	11-20-3	00	252	ug/kg-soil
MES	Aluminum	999	00	3490-6690	ug/kg-soil
MES	Aluminum	999	00	278	ppb-soil
MES	Barium	999		143-6160	ug/kg-soil
MES	Barium	999		298-1800	ppb-surface water
MES	Iron	999		103-1040	ppb-surface water
MES	Mercury	7439-97-6		0.41-7.2	ug/kg-soil
MES	Zinc	999	00	171-856	ug/kg-soil
MES	Mercury	7439-97-6	00	0.33-1.4	ppb-surface water
MES	Iron	999	00	6560-20,400	ppm-soil

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

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

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



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000218248

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION

Contaminants from unlined landfill could migrate to groundwater. No groundwater users in the area except non-contact industrial cooling water.

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☒ OBSERVED (DATE: 7/90) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 80,000 04 NARRATIVE DESCRIPTION

No surface water runoff or leachate containment systems.

01 ☒ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

Airborne particles and dust; hazard only to workers at the facility.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

Low potential.

01 ☐ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

Unlikely due to strict access control. Workers at the factory could potentially be affected, however, site is under surveillance.

01 ☒ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: 12/85) ☐ POTENTIAL ☒ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

Soil samples taken on site by NUS (1985) indicated significantly high concentrations of iron and mercury.

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 80,000 04 NARRATIVE DESCRIPTION

Drinking water intakes from Niagara River are located 2.5 miles from site. Drinking water contamination however, is not likely because intakes are located 3,000 feet off-shore and potential migrating contamination is not likely to flow 3,000 feet across a strong river current.

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

No record of incidence.

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

No record of incidence.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000218248

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 J. DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION

02 \_ OBSERVED (DATE: \_\_\_\_\_) \_ POTENTIAL \_ ALLEGED

None observed.

01 K. DAMAGE TO FAUNA  
04 NARRATIVE DESCRIPTION (Include name(s) of species)

02 \_ OBSERVED (DATE: \_\_\_\_\_) \_ POTENTIAL \_ ALLEGED

None observed.

01 L. CONTAMINATION OF FOOD CHAIN  
04 NARRATIVE DESCRIPTION

02 \_ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL \_ ALLEGED

Not likely.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES  
(Spills/Runoff/Standing liquids, Leaking drums)  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 \_ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL \_ ALLEGED  
04 NARRATIVE DESCRIPTION

None observed.

01 N. DAMAGE TO OFFSITE PROPERTY  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 \_ OBSERVED (DATE: \_\_\_\_\_) \_ POTENTIAL \_ ALLEGED  
04 NARRATIVE DESCRIPTION

None observed.

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 \_ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL \_ ALLEGED  
04 NARRATIVE DESCRIPTION

Potential from surface water runoff which can enter sewer and storm drains. Plant operators have SPDES permit which requires monitoring of discharge (60th and 61st sewers).

01 P. ILLEGAL/UNAUTHORIZED DUMPING  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 \_ OBSERVED (DATE: \_\_\_\_\_) \_ POTENTIAL \_ ALLEGED  
04 NARRATIVE DESCRIPTION

None observed. Restricted access to site.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

Unknown

III. TOTAL POPULATION POTENTIALLY AFFECTED: Unknown

IV. COMMENTS

There is no documentation of hazardous waste disposal. Soil, sediment, and surface water sampling indicates the presence of hazardous substances which may be attributable to the site.

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

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





POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000218248

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (specify)				
<input type="checkbox"/> H. LOCAL (specify)				
<input checked="" type="checkbox"/> I. OTHER (specify) SPDES	NY0000906			For outfalls none for the site.
<input checked="" type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (check all that apply)	05 OTHER <input checked="" type="checkbox"/> A. BUILDINGS ONSITE
<input checked="" type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	06 AREA OF SITE  7 (acres)
<input checked="" type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input checked="" type="checkbox"/> H. OPEN DUMP	79,000	cubic yards	<input type="checkbox"/> H. OTHER (specify)	
<input type="checkbox"/> I. OTHER (specify)				

07 COMMENTS

Volume of waste on-site is approximately 79,000 cubic yards, however, actual quantity of each waste material is unknown. Since 1966, wastes have been hauled off-site by Modern Disposal, Inc. to the Model City Landfill.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

The landfill is unlined, uncovered, and has no leachate collection systems.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO  
02 COMMENTS

Plant facility is fenced and guarded.

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

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

<b>POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT</b> <small>PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA</small>			<b>I. IDENTIFICATION</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">01 STATE New York</td> <td style="width: 50%;">01 SITE NUMBER D000218248</td> </tr> </table>		01 STATE New York	01 SITE NUMBER D000218248										
01 STATE New York	01 SITE NUMBER D000218248															
<b>II. DRINKING WATER SUPPLY</b>																
01 TYPE OF DRINKING SUPPLY <small>(check as applicable)</small>  COMMUNITY NON-COMMUNITY		02 STATUS  <table style="width: 100%;"> <tr> <td style="width: 33%;">SURFACE A. <input checked="" type="checkbox"/> B. <input type="checkbox"/></td> <td style="width: 33%;">WELL A. <input type="checkbox"/> B. <input type="checkbox"/></td> <td style="width: 33%;">ENDANGERED A. <input type="checkbox"/> D. <input type="checkbox"/></td> <td style="width: 33%;">AFFECTED B. <input type="checkbox"/> E. <input type="checkbox"/></td> <td style="width: 33%;">MONITORED C. <input type="checkbox"/> F. <input type="checkbox"/></td> </tr> </table>		SURFACE A. <input checked="" type="checkbox"/> B. <input type="checkbox"/>	WELL A. <input type="checkbox"/> B. <input type="checkbox"/>	ENDANGERED A. <input type="checkbox"/> D. <input type="checkbox"/>	AFFECTED B. <input type="checkbox"/> E. <input type="checkbox"/>	MONITORED C. <input type="checkbox"/> F. <input type="checkbox"/>	03 DISTANCE TO SITE  A. <u>2.5</u> (mi) B. _____ (mi)							
SURFACE A. <input checked="" type="checkbox"/> B. <input type="checkbox"/>	WELL A. <input type="checkbox"/> B. <input type="checkbox"/>	ENDANGERED A. <input type="checkbox"/> D. <input type="checkbox"/>	AFFECTED B. <input type="checkbox"/> E. <input type="checkbox"/>	MONITORED C. <input type="checkbox"/> F. <input type="checkbox"/>												
<b>III. GROUNDWATER</b>																
01 GROUNDWATER USE IN VICINITY (check one)  <table style="width: 100%;"> <tr> <td style="width: 33%;"> <input type="checkbox"/> A. ONLY SOURCE FOR DRINKING         </td> <td style="width: 33%;"> <input type="checkbox"/> B. DRINKING  <small>(other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)</small> </td> <td style="width: 33%;"> <input checked="" type="checkbox"/> C. COMMERCIAL INDUSTRIAL IRRIGATION  <small>(Limited other sources available)</small> </td> <td style="width: 33%;"> <input type="checkbox"/> D. NOT USED, UNUSABLE         </td> </tr> </table>					<input type="checkbox"/> A. ONLY SOURCE FOR DRINKING	<input type="checkbox"/> B. DRINKING <small>(other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)</small>	<input checked="" type="checkbox"/> C. COMMERCIAL INDUSTRIAL IRRIGATION <small>(Limited other sources available)</small>	<input type="checkbox"/> D. NOT USED, UNUSABLE								
<input type="checkbox"/> A. ONLY SOURCE FOR DRINKING	<input type="checkbox"/> B. DRINKING <small>(other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)</small>	<input checked="" type="checkbox"/> C. COMMERCIAL INDUSTRIAL IRRIGATION <small>(Limited other sources available)</small>	<input type="checkbox"/> D. NOT USED, UNUSABLE													
02 POPULATION SERVED BY GROUNDWATER <u>0</u>		03 DISTANCE TO NEAREST DRINKING WATER WELL <u>&gt; 3</u> (mi)														
04 DEPTH TO GROUNDWATER  <u>2 - 3</u> (ft)	05 DIRECTION OF GROUNDWATER FLOW  <u>south - southwest</u>	06 DEPTH TO AQUIFER OF CONCERN  <u>&gt; 40</u> (ft)	07 POTENTIAL YIELD OF AQUIFER  <u>unknown</u> (gpd)	08 SOLE SOURCE AQUIFER  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO												
09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)  No known users of groundwater within 3 miles of site except non-contact industrial cooling water on Buffalo Avenue.																
10 RECHARGE AREA  <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO COMMENTS		11 DISCHARGE AREA  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO COMMENTS - Unknown														
<b>IV. SURFACE WATER</b>																
01 SURFACE WATER USE (Check one)  <input checked="" type="checkbox"/> A. RESERVOIR, RECREATION DRINKING WATER SOURCE <input type="checkbox"/> B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES <input type="checkbox"/> C. COMMERCIAL INDUSTRIAL <input type="checkbox"/> D. NOT CURRENTLY USED																
02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER  <table style="width: 100%;"> <tr> <td style="width: 60%;">NAME:</td> <td style="width: 20%;">AFFECTED</td> <td style="width: 20%;">DISTANCE TO SITE</td> </tr> <tr> <td>Pikes Creek (unconfirmed name)</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td><u>&lt; 100 feet</u></td> </tr> <tr> <td>Niagara River</td> <td style="text-align: center;"><input type="checkbox"/></td> <td><u>1.1</u> (mi)</td> </tr> <tr> <td>_____</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>_____ (mi)</td> </tr> </table>					NAME:	AFFECTED	DISTANCE TO SITE	Pikes Creek (unconfirmed name)	<input checked="" type="checkbox"/>	<u>&lt; 100 feet</u>	Niagara River	<input type="checkbox"/>	<u>1.1</u> (mi)	_____	<input type="checkbox"/>	_____ (mi)
NAME:	AFFECTED	DISTANCE TO SITE														
Pikes Creek (unconfirmed name)	<input checked="" type="checkbox"/>	<u>&lt; 100 feet</u>														
Niagara River	<input type="checkbox"/>	<u>1.1</u> (mi)														
_____	<input type="checkbox"/>	_____ (mi)														
<b>V. DEMOGRAPHIC AND PROPERTY INFORMATION</b>																
01 TOTAL POPULATION WITHIN  <table style="width: 100%;"> <tr> <td style="width: 33%;">ONE (1) MILE OF SITE A. <u>5,902</u> <small>NO. OF PERSONS</small></td> <td style="width: 33%;">TWO (2) MILES OF SITE B. <u>36,756</u> <small>NO. OF PERSONS</small></td> <td style="width: 33%;">THREE (3) MILES OF SITE C. <u>72,452</u> <small>NO. OF PERSONS</small></td> </tr> </table>			ONE (1) MILE OF SITE A. <u>5,902</u> <small>NO. OF PERSONS</small>	TWO (2) MILES OF SITE B. <u>36,756</u> <small>NO. OF PERSONS</small>	THREE (3) MILES OF SITE C. <u>72,452</u> <small>NO. OF PERSONS</small>	02 DISTANCE TO NEAREST POPULATION  <u>¼ - ½</u> (mi)										
ONE (1) MILE OF SITE A. <u>5,902</u> <small>NO. OF PERSONS</small>	TWO (2) MILES OF SITE B. <u>36,756</u> <small>NO. OF PERSONS</small>	THREE (3) MILES OF SITE C. <u>72,452</u> <small>NO. OF PERSONS</small>														
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE  <u>9,673</u>		04 DISTANCE TO NEAREST OFF-SITE BUILDING  <u>&lt; ¼</u> (mi)														
05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within written vicinity of site, e.g., rural, village, densely populated urban area)  Commercial and industrial area. Population consists of workers. Residential area ≈ ¼ to ½ mile from site.																



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000218248

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A.  $10^{-6}$  -  $10^{-8}$  cm/sec ☒ B.  $10^{-4}$  -  $10^{-6}$  cm/sec ☐ C.  $10^{-4}$  -  $10^{-3}$  cm/sec ☐ D. GREATER THAN  $10^{-3}$  cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE  
(Less than  $10^{-6}$  cm/sec) ☒ B. RELATIVELY IMPERMEABLE  
( $10^{-4}$  -  $10^{-6}$  cm/sec) ☐ C. RELATIVELY PERMEABLE  
( $10^{-2}$  -  $10^{-4}$  cm/sec) ☐ D. VERY PERMEABLE  
(Greater than  $10^{-2}$  cm/sec)

03 DEPTH TO BEDROCK

10 - 20 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

Soil samples taken less than 1 (ft)

05 SOIL Ph

unknown

06 NET PRECIPITATION

9 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.1 (in)

08 SLOPE

SITE SLOPE

0 - 10 %

DIRECTION OF SITE SLOPE

Towards Pikes Creek

TERRAIN AVERAGE SLOPE

30 - 45 %

09 FLOOD POTENTIAL

SITE IS IN > 500 YEAR FLOODPLAIN

10

— SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. > 3 (mi)

B. 1.1 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

> 3 (mi)

ENDANGERED SPECIES: N/A

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

A. 0 - ¼ (mi)

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,  
FORESTS, OR WILDLIFE RESERVES

B. ¼ - ½ (mi)

AGRICULTURAL LANDS  
PRIME AG LAND AG LAND

C. > 3 (mi)

D. > 3 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The disposal site is a 7-acre area existing on the Great Lakes Carbon property. Previous landfilling consisted of graphite carbon and sand placed above ground surface to a height of 5-7 feet. Area is graded, flat, and uncovered with no cap. Site is currently used as a stockpile area for product, feedstock, equipment parts, and temporary storage of wastes.

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

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



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

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000218248

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER		None	
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNU	No volatile organics were detected above 1 ppm.

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>E.C. Jordan Co.</u> (Name of organization or individual)
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS <u>Sri Maddineni, NYSDEC, Albany, New York</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

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

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



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

**I. IDENTIFICATION**

01 STATE

New York

01 SITE NUMBER

D000218248

**II. CURRENT OWNER(S)**

**PARENT COMPANY** (If applicable)

01 NAME  
Great Lakes Carbon Corp.

02 D+B NUMBER

08 NAME  
Great Lakes Carbon Corp.

09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)  
6200 Niagara Falls Blvd.

04 SIC CODE

10 STREET ADDRESS (P.O. Box, RFD #, etc.)  
320 Old Briarcliff Manor

11 SIC CODE

05 CITY  
Niagara Falls

06 STATE  
New York

07 ZIP CODE  
14302

12 CITY  
Briarcliff Manor

13 STATE  
New York

14 ZIP CODE  
10510

01 NAME

02 D+B NUMBER

08 NAME

09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

10 STREET ADDRESS (P.O. Box, RFD #, etc.)

11 SIC CODE

05 CITY

06 STATE

07 ZIP CODE

12 CITY

13 STATE

14 ZIP CODE

01 NAME

02 D+B NUMBER

08 NAME

09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

10 STREET ADDRESS (P.O. Box, RFD #, etc.)

11 SIC CODE

05 CITY

06 STATE

07 ZIP CODE

12 CITY

13 STATE

14 ZIP CODE

01 NAME

02 D+B NUMBER

08 NAME

09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

10 STREET ADDRESS (P.O. Box, RFD #, etc.)

11 SIC CODE

05 CITY

06 STATE

07 ZIP CODE

12 CITY

13 STATE

14 ZIP CODE

**III. PREVIOUS OWNER(S)** (List most recent first)

**IV. REALTY OWNER(S)** (If applicable; list most recent first)

01 NAME  
Great Lakes Coal and Coke

02 D+B NUMBER

01 NAME

02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

05 CITY

06 STATE

07 ZIP CODE

05 CITY

06 STATE

07 ZIP CODE

01 NAME

02 D+B NUMBER

01 NAME

02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

05 CITY

06 STATE

07 ZIP CODE

05 CITY

06 STATE

07 ZIP CODE

01 NAME

02 D+B NUMBER

01 NAME

02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

05 CITY

06 STATE

07 ZIP CODE

05 CITY

06 STATE

07 ZIP CODE

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

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



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

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D00021824

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME  
Great Lakes Carbon Corp.

02 D+B NUMBER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME  
Great Lakes Carbon Corp.

11 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)  
6200 Niagara Falls Blvd.

04 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)  
320 Briarcliff Road

13 SIC CODE

05 CITY  
Niagara Falls

06 STATE  
New York

07 ZIP CODE  
14302

14 CITY  
Briarcliff Manor

15 STATE  
New York

16 ZIP CODE  
10510

08 YEARS OF OPERATION  
1939 - Present

09 NAME OF OWNER  
Mike Reece - Plant Engineer

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATOR'S PARENT COMPANIES (If applicable)

01 NAME  
Great Lakes Coal and Coke

02 D+B NUMBER

10 NAME

11 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)

13 SIC CODE

05 CITY

06 STATE

07 ZIP CODE

14 CITY

15 STATE

16 ZIP CODE

08 YEARS OF OPERATION  
19??-1939

09 NAME OF OWNER  
Unknown

01 NAME

02 D+B NUMBER

10 NAME

11 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)

13 SIC CODE

05 CITY

06 STATE

07 ZIP CODE

14 CITY

15 STATE

16 ZIP CODE

08 YEARS OF OPERATION

09 NAME OF OWNER

01 NAME

02 D+B NUMBER

10 NAME

11 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)

13 SIC CODE

05 CITY

06 STATE

07 ZIP CODE

14 CITY

15 STATE

16 ZIP CODE

08 YEARS OF OPERATION

09 NAME OF OWNER

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

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



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000218248

II. ON-SITE GENERATOR

01 NAME Great Lakes Carbon Corp.	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 6200 Niagara Falls Blvd.	04 SIC CODE
05 CITY Niagara Falls	06 STATE New York
07 ZIP CODE 14302	

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	05 CITY	06 STATE
07 ZIP CODE		07 ZIP CODE	
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	05 CITY	06 STATE
07 ZIP CODE		07 ZIP CODE	

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	05 CITY	06 STATE
07 ZIP CODE		07 ZIP CODE	
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	05 CITY	06 STATE
07 ZIP CODE		07 ZIP CODE	

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

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



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

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000218248

II. PAST RESPONSE ACTIVITIES

01 A. WATER SUPPLY CLOSED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 B. TEMPORARY WATER SUPPLY PROVIDED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 C. PERMANENT WATER SUPPLY PROVIDED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 D. SPILLED MATERIAL REMOVED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 E. CONTAMINATED SOIL REMOVED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 F. WASTE REPACKAGED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 G. WASTE DISPOSED ELSEWHERE  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 H. ON SITE BURIAL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 I. IN SITU CHEMICAL TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 J. IN SITU BIOLOGICAL TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 K. IN SITU PHYSICAL TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 L. ENCAPSULATION  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 M. EMERGENCY WASTE TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 N. CUTOFF WALLS  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 O. EMERGENCY DIKING/SURFACE WATER DIVERSION  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 P. CUTOFF TRENCHES/SUMP  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 Q. SUBSURFACE CUTOFF WALL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A



<b>POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT</b> <b>PART 10 - PAST RESPONSE ACTIVITIES</b>		<b>I. IDENTIFICATION</b>	
		<b>01 STATE</b> New York	<b>01 SITE NUMBER</b> D000218248
<b>II. PAST RESPONSE ACTIVITIES (Continued)</b>			
01	R. BARRIER WALLS CONSTRUCTED	02 DATE _____	03 AGENCY _____
04	DESCRIPTION		
N/A			
01	S. CAPPING/COVERING	02 DATE _____	03 AGENCY _____
04	DESCRIPTION		
N/A			
01	T. BULK TANKAGE REPAIRED	02 DATE _____	03 AGENCY _____
04	DESCRIPTION		
N/A			
01	U. GROUT CURTAIN CONSTRUCTED	02 DATE _____	03 AGENCY _____
04	DESCRIPTION		
N/A			
01	V. BOTTOM SEALED	02 DATE _____	03 AGENCY _____
04	DESCRIPTION		
N/A			
01	W. GAS CONTROL	02 DATE _____	03 AGENCY _____
04	DESCRIPTION		
N/A			
01	X. FIRE CONTROL	02 DATE _____	03 AGENCY _____
04	DESCRIPTION		
N/A			
01	Y. LEACHATE TREATMENT	02 DATE _____	03 AGENCY _____
04	DESCRIPTION		
N/A			
01	Z. AREA EVACUATED	02 DATE _____	03 AGENCY _____
04	DESCRIPTION		
N/A			
01	1. ACCESS TO SITE RESTRICTED	02 DATE _____	03 AGENCY _____
04	DESCRIPTION		
N/A			
01	2. POPULATION RELOCATED	02 DATE _____	03 AGENCY _____
04	DESCRIPTION		
N/A			
01	3. OTHER REMEDIAL ACTIVITIES	02 DATE _____	03 AGENCY _____
04	DESCRIPTION		
N/A			
<b>IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)</b>			
Preliminary Site Assessment Report, March 1991, E.C. Jordan Co., and references cited therein.			



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

**I. IDENTIFICATION**

01 STATE

New York

01 SITE NUMBER

D000218248

**II. ENFORCEMENT INFORMATION**

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

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

Phase I Investigation Engineering-Science, 1989 for New York State Department of Environmental Conservation.

Phase I Investigation MUS Corporation, 1985 for USEPA.

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

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

APPENDIX C  
INTERVIEW DOCUMENTATION FORMS

E.C. Jordan Co.  
Work Assignment No. D002472-6

New York State Department of Environmental Conservation  
Preliminary Site Assessments

## INFORMATIONAL INTERVIEW

Job No: 6291-20

Date: 7/19/90

Site: Great Lakes Carbon Landfill

Telephone: \_\_\_\_\_ In-Person X

Between: Roger Bondeson  
                    E.C. Jordan Co.

and: Mike Reece, P.E.

Affiliation: Great Lakes Carbon Corporation

Signature: Roger Bondeson

Signature: M. Reece

Great Lakes Carbon Corporation (GLC) manufactures carbon and graphite products.

GLC has owned the 7-acre disposal site since 1939.

Wastes were disposed of in this landfill from 1939 to 1966. Wastes disposed of include carbon, graphite, coal dust, construction rubble, electrodes, and solid pitch mold stock wastes. Since 1966, no disposal has occurred at the landfill.

Current wastes generated that are reused or recycled include baghouse dust, cracked carbon <sup>shapes</sup> ~~cakes~~, and carbon dust sweepings.

Other generated wastes such as mixed dusts, crushed stone, refractory brick, solid pitch, and garbage are collected and disposed of by Modern Disposal.

It is not known if coal tar has been disposed of in the landfill, prior to 1966.

Spent cleaning solvents used in the main production buildings are collected and removed by Safely Kleen.

The landfill site is currently used to store scrap wood, metal, recyclable scrap carbon shapes, and spare transformers.

Great Lakes Carbon has a SPDES permit to discharge cooling water, boiler blow down water, and stormwater into Pikes Creek.

Sump pump water from the main production buildings is discharged to the Pikes Creek. The sump located in Building 234 is anchored into bedrock and is approximately 20 feet deep. The sump in Building 8 contains shallow groundwater.

Sumps are used to collect moisture and water from the drains around furnaces. Moisture can hinder the production of carbon. There are approximately 20 sumps located throughout the main production buildings.

The landfill site was used to store PCB capacitors <sup>spares</sup> ~~spare~~. These capacitors have been removed from the site as part of a company program to replace PCB capacitors with non PCB capacitors.

Of the 5 transformers stored on the landfill site, 3 will be removed and 2 will be kept for spares.

E.C. Jordan Co.  
Work Assignment No. D002472-6

New York State Department of Environmental Conservation  
Preliminary Site Assessments

## INFORMATIONAL INTERVIEW

Job No: 6291-20

Date: 7/19/90

Site: Great Lakes Carbon Landfill

Telephone: \_\_\_\_\_ In-Person X

Between: Roger Bondeson  
E.C. Jordan Co.

and: Mike Reece, P.E.

Affiliation: Great Lakes Carbon Corporation

Signature: *Roger Bondeson*

Signature: *M. Reece*

Sampling for the SPDES permit occurs at the lift station located to the southwest of Building #101 and at the manhole located to the southwest of the guardhouse and at the outfall located northeast of the guardhouse.

Many of the 55-gallon drums located in the drum storage area located to the east of the landfill site, contain dusts from dust collectors and lathe turnings. These materials are disposed of in the Modern Landfill.

Other empty drums located in the drum storage area used to contain cleaning solvents used in the pilot plant operations.

Spent solvent from pilot plant operations is disposed of via the Frontier Chemical Company.

Mike Reece has been employed by GLC for 23 years, and to his knowledge no solvents or hazardous wastes have been disposed of in the landfill during his employment.

Oil absorbent booms placed around storm drain outfalls in Pikes Creek are used to serve as back-up in the event of a spill and to trap oils that may be washed from paved areas of the GLC property.