

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

PRELIMINARY SITE ASSESSMENT TASK 1

**Walmore Road - Johnson Property Site
Site Number 932101
Town of Wheatfield, Niagara County**

October 1991



Prepared for:

**New York State Department
of Environmental Conservation**

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

Division of Hazardous Waste Remediation

Michael J. O'Toole, Jr., P.E., Director

Prepared by:

Ecology and Environment Engineering, P.C.

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

PRELIMINARY SITE ASSESSMENT TASK 1

**Walmore Road - Johnson Property Site
Site Number 932101
Town of Wheatfield, Niagara County**

October 1991

Prepared for:

**New York State Department
of Environmental Conservation**

50 Wolf Road, Albany, New York 12233

Thomas C. Jorling, Commissioner

Division of Hazardous Waste Remediation

Michael J. O'Toole, Jr., P.E., Director

Prepared by:



**ecology and environment
engineering, p.c.**

BUFFALO CORPORATE CENTER

368 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1 EXECUTIVE SUMMARY	1-1
1.1 ADDITIONS/CHANGES TO REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES ...	1-10
2 PURPOSE	2-1
3 SCOPE OF WORK	3-1
4 SITE ASSESSMENT	4-1
4.1 SITE HISTORY	4-1
4.2 SITE TOPOGRAPHY	4-3
4.3 SITE HYDROLOGY	4-4
4.4 CONTAMINATION ASSESSMENT	4-7
5 ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS	5-1
5.1 HAZARDOUS WASTE DEPOSITION	5-1
5.2 SIGNIFICANT THREAT DETERMINATION	5-1
5.3 RECOMMENDATIONS	5-2

Table of Contents (Cont.)

<u>Appendix</u>	<u>Page</u>
A REFERENCES	A-1
B SITE INSPECTION REPORT (EPA FORM 2070-13)	B-1
C INTERVIEW DOCUMENTATION FORMS	C-1

LIST OF TABLES

<u>Table</u>		<u>Page</u>
3-1	Sources Contacted for the NYSDEC PSA Investigation, Walmore Road-Johnson Property Site	3-3

LIST OF ILLUSTRATIONS

<u>Figure</u>		<u>Page</u>
1-1	Location Map, Walmore Road-Johnson Property Site	1-4
1-2	Site Map, Walmore Road-Johnson Property Site	1-5
1-3	Photographic Logs	1-6

1. EXECUTIVE SUMMARY

The Walmore Road-Johnson Property site (Site I.D. No. 932101) is located on Walmore Road in the Town of Wheatfield, Niagara County, New York (see Figures 1-1, 1-2, and 1-3). The site is now part of a 2- to 3-acre privately owned parcel of gently sloping land bordered by Cayuga Creek. The site (approximately 2 acres) received industrial waste for use as fill. Dates of landfilling are uncertain. Aerial photographs from 1968 show landfilling was occurring at that time (Ref. 18). The New York State Department of Environmental Conservation (NYSDEC) reported that the fill material consisted of heat-treating salt (caustic), plastic tank sludge, fly ash, and scrap wood generated by Bell Aerospace Textron Corporation (Bell Aerospace) (Ref. 2). Information obtained from the Bell Aerospace Right-to-Know Report showed wastes including PCB waste, solvents, sulfuric acid, nitric acid plating solution, and dimethylhydrazine were also generated (Ref. 16). Bell Aerospace's current manifest system, which would have tracked the composition and transfer of this material, was not in place until 1981 (Ref. 10). It is likely that similar wastes were produced prior to 1981. As the disposal locations of these materials are unknown, it is possible that the Walmore Road - Johnson Property Site received some of these wastes. The NYSDEC Phase I investigation of the Walmore Road-Johnson Property site completed in June 1989 by E & E (Ref. 1) and the file search performed for this assessment did not discover any evidence of Bell Aerospace's involvement at this site.

There has been a significant amount of confusion regarding the alleged waste disposal at this site. Originally, the Walmore Road site was believed to be about 1,200 feet north of the present location of the Johnson property, which was later renamed Lockport Road Struzik Property site No. 932094 (Refs. 4 and 16). In the 1987 Registry of Inactive Hazardous Waste Disposal Sites, another site code, No. 932101, was given for the Walmore Road-Johnson property site. The main basis for listing the site was probably the complaint by the owner, Dean Johnson. Mr. Johnson, however, did not provide documented evidence of the waste disposal at the site other than his complaint about the alleged disposal by Haseley Trucking of wastes from Bell Aerospace Textron.

On May 2, 1991, Ecology and Environment Engineering, P.C. (E & E), conducted a site inspection in support of a Preliminary Site Assessment (PSA). The site inspection consisted of a visual survey of the property to evaluate overall site conditions and inspect filled areas.

An inspection of available state, federal, municipal, and private files was carried out and individuals knowledgeable of the site were contacted as part of the overall investigation.

According to the owner, T. Dean Johnson, the fill contents included graphite, hardened resin, crushed plastic battery cases, and similar materials (Ref. 1). There is little visible evidence of fill materials at this site; no effects from the fill materials on nearby residents or the environment have been reported. Additional attempts to contact Mr. Johnson to verify materials disposed of were not successful. No special capping or cover was used on the fill. The precise amount of fill deposited at the site is unknown. A 1968 aerial photograph shows landfilling activities occurring in an area which includes the front of the adjacent property to the south (Ref. 18). A well on the adjacent property, 6381 Walmore Road, was sampled in 1985, apparently because of potential migration of pollutants from previous sludge landfilling operations on the Air Force Base across the road. The sample was tested for bacteria and found positive, although NCDOH considers this result to be incidental for the

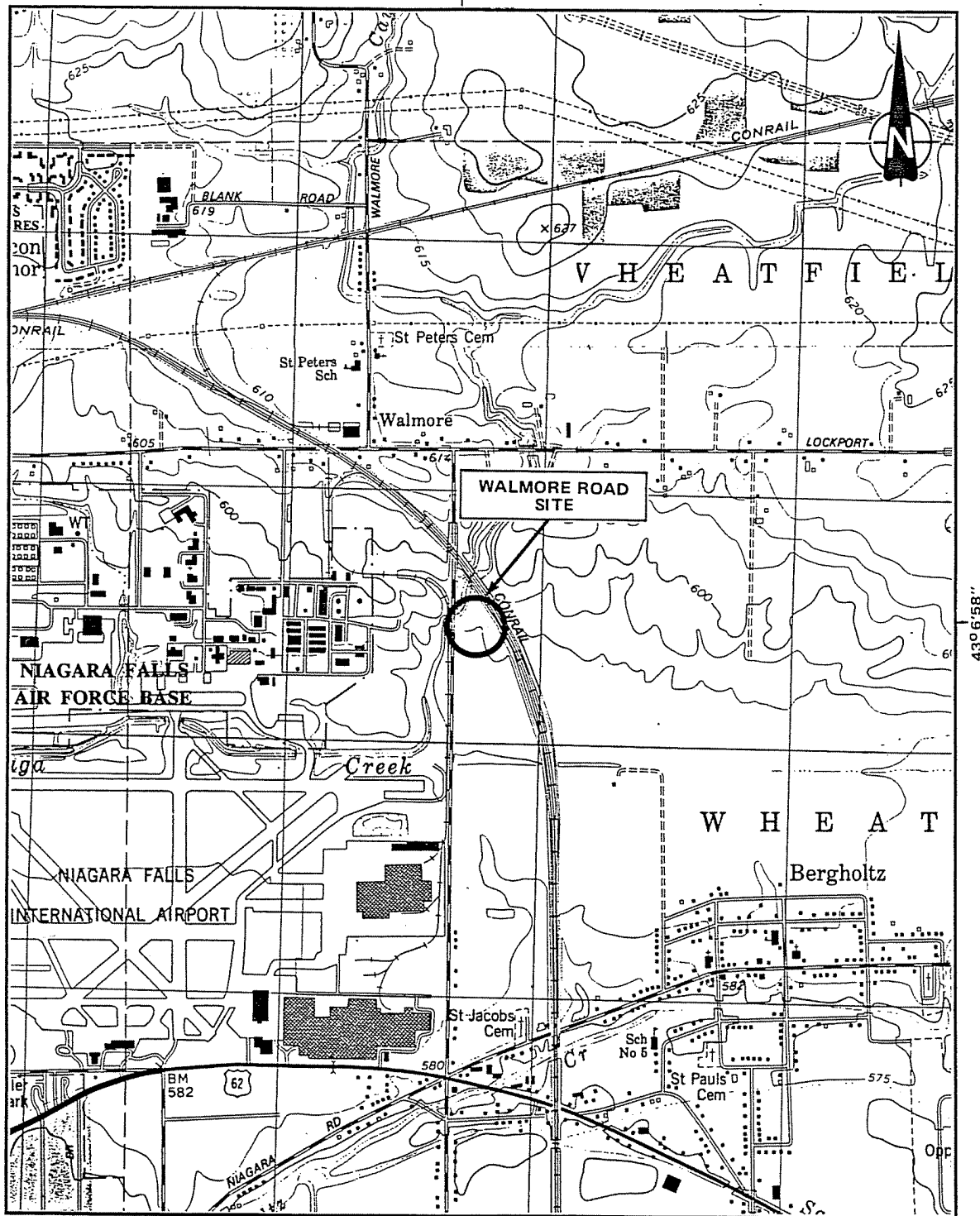
Niagara Falls area (Ref. 1, 7). A water line installed through the fill in 1980 corroded within 5 years (Ref. 8). Following this failure, Mr. Johnson asked the Niagara County Department of Health (NCDOH) to investigate. NCDOH inspected the site in 1984, taking a water sample from an on-site irrigation well. This was the only analysis completed for the site (Ref. 4).

Sherwood Herman of the Wheatfield Water District reported that the main water line along Walmore Road is made of asbestos concrete and that the original water line at 6373 Walmore Road was made of copper. He indicated that no other customers along Walmore Road have had corrosion problems. The water sample taken by NCDOH in 1984 from the irrigation well located upgradient of the fill was tested for halogenated hydrocarbons and metals. No contaminants were detected (Ref. 5). The evidence (corroded water line) suggests that corrosive fill was deposited at the site. This fill may have a pH lower than 2 and would then, by definition, be classified as a hazardous waste. NYSDEC's Registry of Inactive Hazardous Waste Disposal Sites reported that caustic was deposited on site, however no other documentation of actual hazardous waste disposal exists. Therefore, insufficient information exists to reclassify the Walmore Road-Johnson Property site.

Presently, insufficient data exist to accurately characterize the nature of the fill. There are currently no surface soil or fill sample data available for the Walmore Road-Johnson Property site. Area residents rely mainly on municipal surface water supplies for drinking water. Groundwater is used as a drinking water source on the Tuscarora Indian Reservation located approximately 3 miles north of the site.

It is recommended that NYSDEC perform a screening program consisting of several soil and groundwater samples collected from the fill area at a depth of at least 5 feet.

78° 55' 25"



SOURCE: USGS 7.5 Minute Series (Topographic) Quadrangles, Tonawanda West, N.Y. 1980; Ransomville, N.Y. 1980

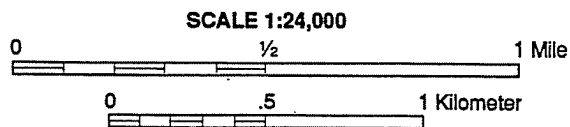


Figure 1-1
LOCATION MAP, WALMORE ROAD-JOHNSON PROPERTY SITE

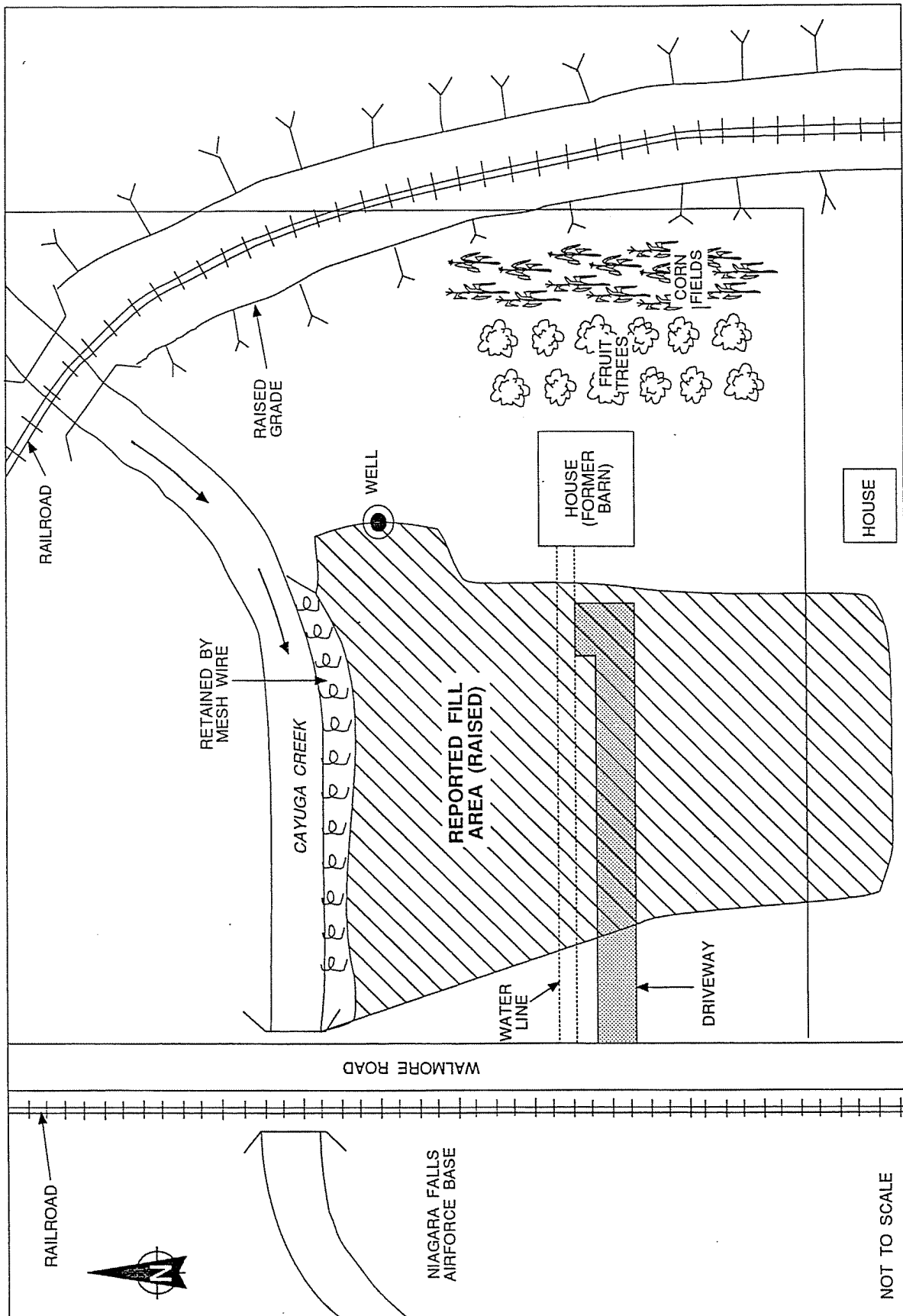


Figure 1-2
SITE MAP, WALMORE ROAD-JOHNSON PROPERTY SITE

SB5360

FIGURE 1-3
PHOTOGRAPHIC LOGS

ecology and environment engineering, p.c.
PHOTOGRAPHIC RECORD

Client: NYSDEC

E & E Job No.: SB5360

Site: Walmore Road-Johnson Property

Camera: Make Kodak 35mm

SN Disposable

Lens Type --

SN --

Photographer: Scott Glinski Date: 5/10/91

Time: 2:30 p.m. Frame No.: 1

Comments*: Eastern bank of Cayuga Creek shows
 exposed debris.

*Comments to include location.



ecology and environment engineering, p.c.
PHOTOGRAPHIC RECORD

Client: NYSDEC

E & E Job No.: SB5360

Site: Walmore Road-Johnson Property

Camera: Make Kodak 35mm

SN Disposable

Lens Type --

SN --

Photographer: Scott Glinski Date: 5/10/91

Time: 2:32 p.m. Frame No.: 2

Comments*: Walmore Road drainage pipe emptying
into Cayuga Creek. Pipe runs partially through fill area.
No discharge, distressed vegetation noted in pipe area.

*Comments to include location.



ecology and environment engineering, p.c.
PHOTOGRAPHIC RECORD

Client: NYSDEC

E & E Job No.: SB5360

Site: Walmore Road-Johnson Property

Camera: Make Kodak 35mm

SN Disposable

Lens Type --

SN --

Photographer: Scott Glinski Date: 5/10/91

Time: 2:40 p.m. Frame No.: 3

Comments*: Chicken-wired rock drainage area along
eastern creek bank, irrigation well sampled in 1984, and
orchard.

*Comments to include location.



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

Original - BHSC

Copy - REGION

Copy - DEE

Copy - DOH

Copy - PREPARER

ADDITIONS/CHANGES TO REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES

1. Site Name Walmore Road-Johnson Property		2. Site Number 932101	3. Town Wheatfield	4. County Niagara
5. Region 9	6. Classification Current <u>2a</u> /Proposed _____		7. Activity <input type="checkbox"/> Add <input type="checkbox"/> Reclassify <input type="checkbox"/> Delist <input type="checkbox"/> Modify _____	
8a. Describe location of site (attach USGS topographic map showing site location).				
b. Quadrangle <u>Ransomville and Tonawanda West</u> c. Site latitude <u>43° 06' 58" N</u> Longitude <u>78° 55' 25" W</u> d. Tax Map Number <u>147.00</u>				
9a. Briefly describe the site (attach site plan showing disposal/sampling locations). Bell Aerospace Textron used this site to dispose of heat-treating salt (caustic), plastic tank sludge, fly ash, scrapwood, and clay.				
b. Area <u>-2</u> acres c. EPA ID number <u>NYD000514463</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 checked="" 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. Waste disposal is not well documented. Materials which may have been disposed of include PCB waste, solvents, sulfuric acid, nitric acid plating solution, dimethylhydrazine, heat-treating salt (caustic), plastic tank sludge, flyash, scrapwood, graphite, hardened resins, crushed battery cases.				
11a. Summarized sampling data attached <input type="checkbox"/> Air <input checked="" 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. None. No new sampling done for this report.				
12. Site impact data				
a. Nearest surface water: Distance <u>0</u> ft. Direction <u>north</u> Classification <u>C</u>				
b. Nearest groundwater: Depth <u>6</u> ft. Flow direction <u>southwest</u> <input type="checkbox"/> Sole source <input type="checkbox"/> Primary <input type="checkbox"/> Principal				
c. Nearest water supply: Distance <u>15,000</u> ft. Direction <u>north</u> Active <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
d. Nearest building: Distance <u>adjacent</u> Direction <u>east</u> Use <u>residential</u>				
e. Crops/livestock on site? <input checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> Yes <input checked="" 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 <u>NA</u>				
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 type="checkbox"/> No <input checked="" type="checkbox"/> Unknown				
13. Site owner's name T. Dean Johnson		14. Address 4169 Purdy Road, Lockport, New York		15. Telephone Number Not available
16. Preparer Scott Gliniski, Land Use Planner Ecology and Environment Engineering, P.C. Name, title, and organization 5/12/91 Date <u>Joseph H. Burton for Scott Gliniski</u> Signature				
17. Approved _____ Name, title, and organization _____ Date _____ Signature _____				

2. PURPOSE

Task 1 of the PSA, Data Records Search and Assessment, was conducted by E & E under contract to the NYSDEC Superfund Standby Contract (Contract No. D002625). Task 1 involves the search for proof of disposal of hazardous waste documentation and proof of a significant threat to human health or the environment. Additional investigation may also be recommended.

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

- **Class 2.** Significant threat to the public health or the environment--action required;
- **Class 3.** No significant threat to the public health or the environment--action may be deferred; and
- **Delist.** Site has been delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

The Walmore Road-Johnson Property site is currently classified as 2a (and not the above classifications) 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. SCOPE OF WORK

Task 1 of the PSA of the Walmore Road-Johnson Property comprised several interrelated tasks as follows:

File Reviews and Data Search

An extensive data search was conducted utilizing state, county, municipal, and site-specific sources. This information was compiled from existing data as well as new sources, and a preliminary characterization of the site was developed after review.

Sources contacted during the PSA are listed in Table 3-1.

Site Inspection

A site inspection was conducted on May 2, 1991 to assess the surface characterization of the site and vicinity, observe evidence, if any, of hazardous substances or wastes present, photograph the site, conduct preliminary air monitoring using a photoionization detector (HNU) and a radiation meter, and confirm information obtained from the initial data search. A Site Inspection Report (EPA Form 2070-13) form and the NYSDEC Additions/Changes to the Registry of Inactive Hazardous Waste Disposal Sites form were completed following the site inspection. At the time of the inspection there was little evidence of waste disposal. No leachate was observed during the inspection, and no readings above background levels were noted on any instruments.

The site inspection was conducted by the following personnel:

<u>Name</u>	<u>Title</u>	<u>Affiliation</u>
Scott Glinski	Land Use Planner	E & E
Linda Fischer	Environmental Analyst	E & E
Abul Barkat	Engineer	NYSDEC

Approaching the site from the north, gabions (rock and stones retained by wire) were observed on the south bank of Cayuga Creek, approximately 30 yards from the road. No signs of stressed vegetation or discolored, milky, or sheened water was observed along or in the creek for the length of the property.

There were no visible signs of stained ground or stressed vegetation around a pipe for drainage off Walmore Road into Cayuga Creek. The fill area was level and covered with a layer of topsoil and healthy grass. Vegetation in the creek bed was lush and unstressed.

Table 3-1

**SOURCES CONTACTED FOR THE NYSDEC PSA INVESTIGATION
WALMORE ROAD-JOHNSON PROPERTY SITE**

New York State Department of Environmental Conservation
Bureau of Hazardous Site Control
50 Wolf Road
Albany, New York 12233
Contact: Mike Ryan and Jane Thapa
Telephone: 518/457-9538
Date: April 3 and 4, 1989
Information Gathered: File search for additional data and NYSDEC Phase I reports.

New York State Department of Environmental Conservation
Division of Regulatory Affairs
600 Delaware Avenue
Buffalo, New York 14202
Contact: Martin L. Doster
Telephone: 716/847-4585
Date: April 3, 1990
Information Gathered: File search.

New York State Department of Environmental Conservation
584 Delaware Avenue
Buffalo, New York 14202
Contact: Yavuz Erk
Telephone: 716/847-4585
Date: April 22, 1991
Information Gathered: File search.

New York State Department of Health
Bureau of Environmental Exposure
2 University Place
Room 205
Albany, New York 12203
Contact: Andy Carlson
Telephone: 518/458-6306
Date: April 16 and 17, 1991
Information Gathered: File information.

New York State Department of Health
Regional Toxic Program Office
584 Delaware Avenue
Buffalo, New York 14202
Contact: Cameron O'Connor
Telephone: 716/847-4365
Date: April 22, 1991
Information Gathered: File search.

Table 3-1

**SOURCES CONTACTED FOR THE NYSDEC PSA INVESTIGATION
WALMORE ROAD-JOHNSON PROPERTY SITE**

Niagara County Department of Health
10th and Falls Streets
Niagara Falls, New York 14302
Contact: Paul Dicky
Telephone: 716/284-3128
Date: April 2, 1990
Information Gathered: Information about files pertaining to NYSDEC sites.

Niagara County Department of Planning
County Office Building
Lockport, New York 14094
Contact: Theodore Billing, Rich Seekins
Telephone: 716/439-6033
Date: April 25, 1991
Information Gathered: U.S. Census of Population 1990 data, other demographic data.

Niagara County Environmental Management Council
County Courthouse Building
Lockport, New York 14094
Contact: Joann Ellsworth
Telephone: 716/439-6170
Date: April 25, 1991
Information Gathered: Area floodplain, wetland, land use, zoning public/private water systems.

Niagara County Highway Department
225 South Niagara Street
Lockport, New York 14094
Contact: Gary Hinton
Telephone: 716/439-6066
Date: April 29, 1991
Information Gathered: Aerial photographs.

Niagara County Real Property Tax Services
Tax Mapping Division
County Courthouse Building
Lockport, New York 14094
Contact: Hazel M. Hasely
Telephone: 716/439-6111
Date: April 25, 1991
Information Gathered: Tax, ownership, tax map data.

Table 3-1**SOURCES CONTACTED FOR THE NYSDEC PSA INVESTIGATION
WALMORE ROAD-JOHNSON PROPERTY SITE**

USDA Soil Conservation Service

Cornell Cooperative Extension

4487 Lake Avenue

Lockport, New York 14094

Contact: Darcy Tone

Telephone: 716/434-4949

Date: April 26, 1991

Information Gathered: Soil survey, agriculture districts and prime farmland,
aerial photos.

4. SITE ASSESSMENT

4.1 SITE HISTORY

The Walmore Road-Johnson Property site is a landfilled area located on residential property at 6373 Walmore Road, Town of Wheatfield, Niagara County, New York. A private residence is located on the property, adjacent to the filled area. This residence was converted from a barn in 1979 to 1980 by property owner T. Dean Johnson.

Some time before this barn conversion, landfilling of industrial materials occurred in an approximately 2-acre area north, south, and west of the barn. A 1968 aerial photograph shows an extensive area of landfilling which includes the front yard of the adjacent house to the south (Ref. 18). The depth of fill measured 5 feet in certain areas (Ref. 4).

The NYSDEC Registry of Inactive Hazardous Waste Disposal Sites shows that Bell Aerospace used this site for disposal of heat-treating salt, plastic tank sludge, fly ash, scrapwood, and clay (Ref. 2). Information obtained from the Bell Aerospace Right-to-Know Report showed wastes including PCB waste, solvents, sulfuric acid, nitric acid plating solution, and dimethylhydrazine were also generated (Ref. 16). Bell Aerospace's current manifest system, which would have tracked the composition and transfer of this material, was not in place until 1981 (Ref. 10). It is likely that similar wastes were produced prior to 1981. As the disposal locations of these materials are unknown, it is possible that the Walmore Road - Johnson Property Site received some of these wastes. The NYSDEC Phase I investigation of the Walmore Road-Johnson

Property site completed in June 1989 by E & E (Ref. 1) and the file search performed for this assessment did not discover any evidence of Bell Aerospace's involvement at this site.

T. Dean Johnson reported that the fill received consisted of graphite, hardened resins, and crushed plastic battery cases, and was delivered to the site by Haseley Trucking Company (Ref. 1). When interviewed in 1989, the trucking company representative reported no knowledge of the contents or source of the fill (Ref. 1).

There has been a significant amount of confusion regarding the alleged waste disposal at this site. Originally, the Walmore Road site was believed to be about 1,200 feet north of the present location of the Johnson property, which was later renamed Lockport Road Struzik Property site No. 932094 (Refs. 4 and 16). In the 1987 Registry of Inactive Hazardous Waste Disposal Sites, another site code, No. 932101, was given for the Walmore Road-Johnson property site. The main basis for listing the site was probably the complaint by the owner, Dean Johnson. Mr. Johnson, however, did not provide documented evidence of the waste disposal at the site other than his complaint about the alleged disposal by Haseley Trucking of wastes from Bell Aerospace Textron (Ref. 1).

At the time of the barn conversion, 1979 to 1980, a water line and septic tank were installed to service the residence. The water line ran from the residence to a Town of Wheatfield asbestos concrete, 10-inch water main along Walmore Road. In 1984 the property owner noticed a loss of water pressure at the residence. Upon excavation the copper line was found to be corroded, and was subsequently replaced by a PVC water line (Ref. 1). No water pressure problems have been reported by the property owner to NCDOH since this new water line was installed. The Wheatfield water district reports no other customer complaints along Walmore Road due to corrosion.

In 1984 the property owner asked NCDOH inspectors to inspect the filled areas of the property. As part of the investigation a water sample was taken from a 13-foot-deep dug well located 100 feet northeast of the residence

and upgradient of the fill area. Analysis conducted by NYSDEC for total halogenated organics, lead, chromium, and cadmium found no contaminants (Ref. 1).

Further investigation of the site is required to accurately assess overall health and environmental impacts. Site ownership has not changed, no remedial action has been taken, nor have any significant environmental or health effects, leachate outbreaks, or fishkills been noted at the site.

4.2 SITE TOPOGRAPHY

The Walmore Road-Johnson Property site consists of approximately 2 to 3 acres and is located on a nearly flat land parcel on the southern bank of Cayuga Creek between the Consolidated Railroad Corporation (Conrail) railroad tracks and Walmore Road. The topography of the regional area, a lacustrine plain, is essentially flat at an elevation of 590 feet (Ref. 15). Cayuga Creek has eroded a channel approximately 5 feet deep, and the Conrail tracks are elevated approximately 15 feet by fill. The lacustrine plain slopes upward slightly to the northeast rising 50 feet in 3 miles. The Niagara Escarpment is 3.5 miles to the north, and the Niagara River is 3 miles to the south. The site is on a 100-year floodplain according to FEMA flood insurance map #36051300018 (Ref. 3).

The site is located in the Town of Wheatfield in an area of diverse land uses. An international airport and United States Air Force base are located 0.5 mile southwest of the site. A commercial auto service business is located approximately 0.5 mile north of the site and a train embankment traverses the rear of the property in a southerly direction. A small fruit orchard (20 trees) and three residences are found in the immediate site vicinity. Cayuga Creek transects the Johnson property on Walmore Road and marks the northern edge of the landfilled area. There are no known critical habitats in the vicinity of the site (Ref. 1). All residents in this area of the Town of Wheatfield use water from public systems for drinking.

4.3 SITE HYDROLOGY

Niagara County lies within the Central Lowland physiographic province. Specifically, it lies in the Eastern Lake section and occupies part of the Huron and Ontario plains (Ref. 14).

This area, known as the Niagara Frontier, is relatively flat and broken by two east-west trending escarpments: the Niagara Escarpment and the Onondaga Escarpment. The site lies on the flat area between these escarpments called the Tonawanda Plain. This was the site of the postglacial Lake Tonawanda (Ref. 13).

Sediments in this area consist mainly of lacustrine deposits and glacial tills. The lacustrine deposits (i.e., silts and clays that settled to the bottom of the postglacial lake) are generally olive and brownish sediments overlying a red clay. The olive and brownish lacustrine sediments were deposited in glacial Lake Tonawanda following the Wisconsin Ice Age. These sediments blanket a red clay that was deposited following an earlier ice age in glacial Lake Lundy that at one time covered the entire county. Glacial till also occupies a large part of the surface area in the county and underlies most areas of lake sediments. The glacial till deposits consist of ground moraines, drumlins, eskers, and terminal moraines. Ground moraines occupy the low undulating till plain and are approximately 10 to 15 feet thick. Drumlins are rounded hills of bedrock or till that were molded beneath the ice and are elongated in the direction of ice flow. Drumlins in Niagara County are very subdued due to modification by the glacial lakes. Eskers are thin elongated ridges of pebbly till trending northeast-southwest. The terminal moraines have a general east-west trend and were formed when the ice stagnated for a long period of time. Other deposits, consisting of glacial outwash and beach deposits, exist in large belts (up to 8 miles in length) and are generally 1 to 10 feet thick (Ref. 13).

Surface drainage of the Ontario Plain is northward into Lake Ontario and soil drainage is relatively poor. Surface drainage of the Huron Plain is southward into Tonawanda Creek and is also not well developed. Surface

drainage of the Tonawanda Plain is predominantly westward or southwestward into the upper Niagara River (Ref. 14).

The lacustrine sediments and glacial till of the Niagara Frontier are underlain by sedimentary rocks varying in thickness between 1,980 to 4,200 feet and are Ordovician, Silurian, and Devonian in age. The lower part of the Ordovician System is composed primarily of limestones and dolostones. The upper part is composed of massive shales, interbedded with thin sandstone layers primarily of the Queenston formation.

The Silurian system is composed of the Medina, Clinton, Lockport, and Salina groups. The Medina group consists of sandstones, shales, and dolostones of the Clinton, which in turn are overlain by the dolostones and limestones of the Lockport group. Above the Lockport are shales, siltstones, and dolostones, and the gypsum, anhydrite, and salt beds of the Salina group. The poorly drained Tonawanda Plain is formed on the weathered surface of the Lockport and Salina groups.

The Devonian system unconformably overlies Silurian rocks to the south of Niagara County. The formation at the Devonian-Silurian contact is the Onondaga limestone, which is a massive cherty limestone that outcrops across most of northern Erie County (Ref. 13).

Niagara County has abundant surface waters bordering it: Tonawanda Creek to the south, the Niagara River to the west, and Lake Ontario to the north. The county's municipal water district draws most of its water from the Niagara River. However, rural residents depend on both bedrock and overburden wells. The bedrock wells north of the Niagara Escarpment are dug or drilled into the Queenston shale. The yields of water are often inadequate during extended dry periods and may contain high levels of salt or sulfate. Bedrock wells to the south of the escarpment are drilled into the Lockport dolomite. Yields are generally higher, but the water typically contains high calcium and other cations. Shallow-dug wells and springs are most often completed in one or more of the three most permeable of the 11 soil associations in Niagara County: the Otisville-Altmar-Fredon-Stafford

association, the Howard-Arkport-Phelps association, and the Hilton-Ovid-Ontario association. The shallow wells are less desirable than bedrock wells due to increasing pollution of shallow groundwater, primarily by seepage and are therefore seldom used (Ref. 14).

Groundwater in the Niagara Falls area occurs in both the unconsolidated deposits and in the bedrock. The bedrock, specifically the Lockport dolomite, is, however, the principal source of groundwater in the Niagara Falls area. Three types of bedrock openings contain the groundwater: bedding joints, vertical joints, and solution cavities.

The bedding joints, which transmit most of the water in the Lockport, and fractures along prominent bedding planes have been widened up to 1/8 inch by solution of the rocks. These joints extend several miles, thus constituting effective water conduits.

The vertical joints are generally too short and sparse to account for significant groundwater storage and transmission, except in the top 10 to 25 feet of bedrock. Solution cavities, formed when gypsum is dissolved, are also not important components of the aquifer. Although they increase the storage capacity of the aquifer, they are isolated and do not contribute to groundwater transmission.

Two distinct sets of groundwater conditions exist in the Lockport dolomite. The first is the upper 10 to 25 feet of the bedrock. This region is highly fractured resulting in moderate permeabilities. In some areas in the region, a confining layer of clay above this zone can produce artesian groundwater conditions. The second class of groundwater conditions is found deeper in the bedrock, where at least seven different permeable zones have been identified. These zones are surrounded by impermeable bedrock, and it is not likely that they are hydraulically connected (Ref. 1). Groundwater flow in bedrock in the vicinity of the site is complex. Groundwater flow direction cannot be accurately determined at this time.

The soils at this site are Schoharie silty clay loam of the Odessa-Lakemont-Ovid association (Ref. 1). These soils are fine-textured and poorly-

drained. The soils are overlain by the industrial fill material at the Walmore Road-Johnson Property site.

The depth to the bedrock is not known at this site. Bedrock was encountered between 11 and 14 feet below ground surface at the nearby Lockport Road - Struzik Property site (Ref. 17). Borings have been made near the Carborundum plant 0.5 mile to the south, along Walmore Road. These borings indicated that the Lockport dolomite bedrock was greater than 15 feet below the surface (Ref. 1).

The well on site is screened in the overburden at a depth of 13 feet. Groundwater was encountered at 6 feet during NCDOH sampling in 1984.

The unconsolidated deposits, in which the on-site well is screened, constitute the aquifer of concern at this site because they are used to irrigate fruit and vegetables grown on site. Fill material is believed to have been placed adjacent to the creek. Water in these deposits is most likely hydraulically connected to Cayuga Creek, which flows through this site. Cayuga Creek, however, is not used for drinking water or recreation. After leaving the Walmore Road-Johnson Property site, the creek is inaccessible as it flows through the Niagara Falls Air Force Base and International Airport.

Boreholes adjacent to the Carborundum plant approximately 0.5 mile to the south revealed lacustrine clay deposits up to 10 feet thick (Ref. 1). These deposits may isolate the aquifer of concern from the deeper regolith and bedrock aquifers. Boring logs from the Lockport Road - Struzik Property site located approximately 0.4 mile to the north show 11 to 14 feet of unconsolidated sediments and glacial till overlying Lockport dolomite bedrock (Ref. 17).

4.4 CONTAMINATION ASSESSMENT

One to 3 acres of the Walmore Road-Johnson Property site received industrial fill measuring 5 feet in depth in certain areas. The exact date and nature of the fill are unknown, although the owner claims that the fill material included graphite, hardened resins, and plastic battery cases (Ref. 1). Other

reported fill material consists of heat-treating salt (caustic), plastic tank sludge, fly ash, and scrap wood (Ref. 2). Filled areas extend from Walmore Road, along the south bank of Cayuga Creek, to the areas north and east of the residence on site. In 1979, a water line was installed but by 1984 was severely corroded (Ref. 1).

In 1984, at the request of the owner, NCDOH sampled a water well on the property and analyzed it for halogenated organic compounds and three metals: lead, cadmium, and chromium. None of these contaminants was found above detection limits (Ref. 4). A well on the adjacent property located to the south, 6381 Walmore Road, was sampled in 1985, apparently because of potential migration of pollutants from previous sludge landfilling operations on the Air Force Base across the road. The sample was tested for bacteria and found positive, although NCDOH suspects this to be of incidental origin (Ref. 1, 7).

No soil sampling has been performed at the Walmore Road-Johnson Property site. Slag was noticed on the surface of alleged fill areas near Cayuga Creek by the E & E inspection team on June 24, 1987, and by Michael Hopkins of NCDOH in 1984.

The site inspection by E & E on May 2, 1991 showed little visible signs of fill materials. The waters of Cayuga Creek in the vicinity of the site showed no visible signs of contamination. A stormwater drainage pipe outlet into Cayuga Creek at the edge of the site showed no signs of discharge or distressed vegetation near it. Air monitoring for organic vapors and radiation sources on the site showed no readings above background levels.

No documentation exists to confirm the disposal of hazardous waste at this site. Evidence suggests that corrosive fill was deposited at the site but this does not constitute proof of hazardous waste disposal. At this time, the site is not considered to pose a significant threat to human health or the environment.

5. ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

5.1 HAZARDOUS WASTE DEPOSITION

No actual documentation of hazardous waste disposal exists for this site. The NYSDEC Inactive Hazardous Waste Disposal Report lists Bell Aerospace as a reported waste disposer of heat-treating salts (caustic) and plastic tank sludge at the Walmore Road-Johnson Property site. However, this investigation and prior site studies establish no known link between Bell Aerospace and hazardous waste disposal on the site. The property owner claims graphite, hardened resins, and plastic battery cases are included in this fill.

The trucking company that delivered fill to the site, the property owner, and Bell Aerospace have no written record of the fill contents (Refs. 9, 10, 11).

An NCDOH water sample taken in 1984 from a private irrigation well on site did not contain THD, lead, chromium, or cadmium above minimum detection levels (Ref. 6).

5.2 SIGNIFICANT THREAT DETERMINATION

Based on the limited analytical data of selected contaminants from one groundwater sample, it is not known whether a significant threat to humans exists via the groundwater route. Nearby residents receive drinking water primarily from municipal surface water supplies. Groundwater is used for drinking water on the Tuscarora Indian Reservation located approximately 3 miles to the north.

Cayuga Creek, which borders the site to the north, is inaccessible downstream of the site as it flows through the Niagara Falls International Airport. Downstream of the airport, the creek has been posted as hazardous because of potential contaminant migration from Love Canal and the former Charles Gibson disposal site.

A potential threat to the current residents at 6373 Walmore Road exists should the soil cover be removed exposing the wastes. Evidence suggests that corrosive fill was deposited at the site and may pose a direct contact hazard. The water supply to the residence may also be threatened if the integrity of the PVC water line is lost due to the age or corrosive nature of the fill. However, at this time, the Walmore Road-Johnson Property site is not considered to pose a significant threat to human health or the environment.

5.3 RECOMMENDATIONS

Evidence (corroded water line) suggests that corrosive fill was deposited at the site. This fill may have a pH lower than 2 and would then, by definition, be classified as a hazardous waste. As no documentation of hazardous waste disposal exists, disposal cannot be confirmed and, therefore, insufficient information exists to reclassify the Walmore Road-Johnson Property site.

Presently, insufficient data exist to accurately characterize the nature of the fill. There are currently no surface soil or fill sample data available for the Walmore Road-Johnson Property site.

It is recommended that NYSDEC perform a screening program consisting of several soil and groundwater samples collected from the fill area at a depth of at least 5 feet. These samples should be analyzed for full Target Compound List (TCL) parameters as the composition of the fill material is unknown. Groundwater samples should be collected from the existing on-site well and the adjacent neighbors' well also for full TCL analysis.

APPENDIX A

REFERENCES

REFERENCES

1. New York State Department of Environmental Conservation, 1989, Phase I Engineering Investigation, Walmore Road-Johnson Property NYSDEC Site No. 932101.
2. New York State Department of Environmental Conservation, 1991, Division of Hazardous Waste Remediation Inactive Hazardous Waste Disposal Report.
3. Elsworth, Joann, 1991, Niagara County Environmental Management Council Site information, land use, floodplain, zoning, water lines.
4. Hopkins, Michael, Niagara County Department of Health, December 6, 1984, memorandum to Peter Beuchi, New York State Department of Environmental Conservation, Region 9, Buffalo, New York.
5. _____, February 15, 1985, personal communication to T. Dean Johnson, 6373 Walmore Road, Wheatfield, New York.
6. _____, November 13, 1984, Service Request Form called in to NCDOH by T. Dean Johnson.
7. Popovici, Michael, Niagara County Health Department, January 15, 1985, personal communication to James Johnson, 6381 Walmore Road, Niagara Falls, New York.
8. Ecology and Environment, Inc., July 6, 1987, personal communication with Debra Johnson, former owner of property at 6381 Walmore Road, with attachments from Advanced Environmental Systems, Inc.
9. _____, May 20, 1988, personal communication to Brian Smith, Bell Aerospace Textron, Inc.
10. Buzawa, Carl, 1988, Vice President-Division Counsel, Bell Aerospace Textron, personal communication with Ecology and Environment, Inc.

11. Haseley, Mark, 1991, personal communication, Owner, Haseley Trucking Company, Wheatfield, New York.
12. Tesmer, I.H., 1981, Colossal Cataract, State University of New York Press, Albany, New York.
13. United States Department of Agriculture, 1972, Soil Survey of Niagara County, New York, Soil Conservatory Service.
14. United States Geological Survey, 1980, 7.5-Minute Series (Topographic), Tonawanda West Quadrangle, United States Department of the Interior.
15. Tygert, J., New York State Department of Environmental Conservation, Region 9, September 17, 1986, Memorandum to Mr. Demick, New York State Department of Environmental Conservation, Western Investigation Section.
16. Bell Aerospace Textron, 1984, Community Right-to-Know Document, Generator Form, Part II.
17. New York State Department of Environmental Conservation, 1992, Engineering Investigations at Inactive Hazardous Waste Disposal Sites in the State of New York, Phase II Investigations, Lockport Road - Struzik Property, Town of Wheatfield, Niagara County.
18. _____, 1968, Aerial Photograph of Walmore Road - Johnson Property Site.

REFERENCE 1

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE I INVESTIGATION

**WALMORE ROAD - JOHNSON PROPERTY,
SITE NUMBER 932101
TOWN OF WHEATFIELD, NIAGARA COUNTY**

June 1989



Prepared for:
**New York State Department
of Environmental Conservation**
50 Wolf Road, Albany, New York 12233
Thomas C. Jorling, Commissioner
Division of Hazardous Waste Remediation
Michael J. O'Toole, Jr., P.E., Director

Prepared by:
Ecology and Environment Engineering, P.C.

REFERENCE 2

DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL REPORT

CLASSIFICATION CODE: 2a

REGION: 9

SITE CODE: 932101

EPA ID: NYD000514463

NAME OF SITE : Walmore Road - Johnson Property

STREET ADDRESS: 6373 Walmore Road, Wheatfield, NY 14304

TOWN/CITY:

COUNTY:

ZIP:

Wheatfield

Niagara

14304

SITE TYPE: Open Dump- Structure- Lagoon-X Landfill- Treatment Pond-
ESTIMATED SIZE: 2 Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME.....: Mr. Dean Johnson

CURRENT OWNER ADDRESS.: 6373 Walmore Rd., Wheatfield, NY

OWNER(S) DURING USE....: Unknown

OPERATOR DURING USE....:

OPERATOR ADDRESS.....:

PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From To

SITE DESCRIPTION:

Bell Aerospace Textron used this site to dispose of heat treating salt, caustic, plastic tank sludge, fly ash, scrapwood and clay. A Niagara County Health Dept. letter dated February 15, 1985 indicates that a water sample from a private well near the site did not contain THD, lead, chromium, or cadmium above the minimum detection levels. A Phase I investigation was completed in 1989.

HAZARDOUS WASTE DISPOSED: Confirmed-
TYPE

Suspected-X
QUANTITY (units)

Heat treating salts - caustic plating

Unknown

CONTRAVENTION OF STANDARDS:

Groundwater-	Drinking Water-	Surface Water-	Air-
--------------	-----------------	----------------	------

LEGAL ACTION:

STATE:	State-	Federal-
STATUS:	Negotiation in Progress-	Order Signed-

REMEDIAL ACTION:

Proposed-	Under design-	In Progress-	Completed-
-----------	---------------	--------------	------------

NATURE OF ACTION:

GEOTECHNICAL INFORMATION:

SOIL TYPE:

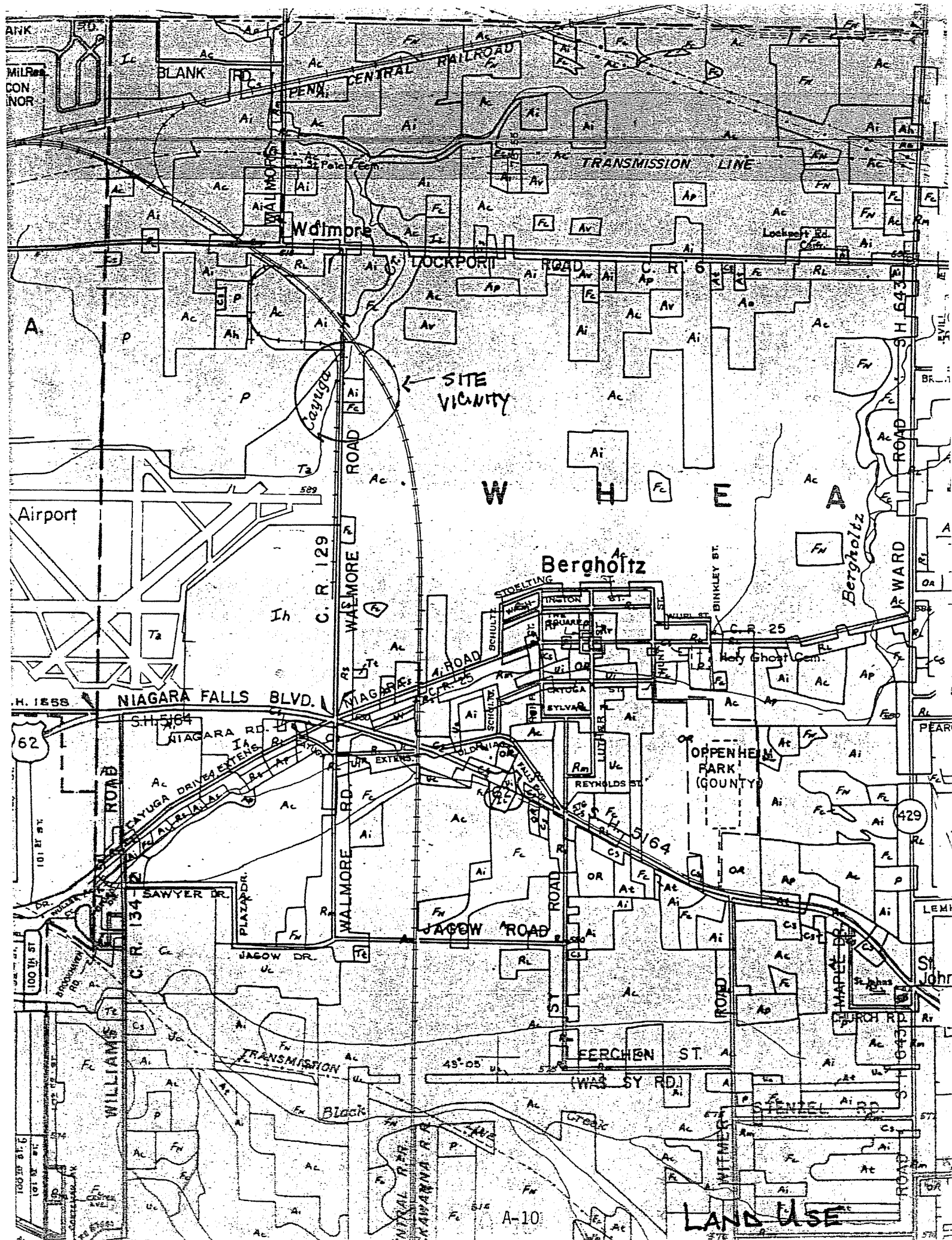
GROUNDWATER DEPTH:

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

There is limited data on the and groundwater at the site. Further investigation is needed to assess environmental problems.

ASSESSMENT OF HEALTH PROBLEMS:

REFERENCE 3



TOWN OF NIAGARA

T. 13, R. 9
TWP. 13, RANGE 8

ORTER RD. NIAGARA
S.H.

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

NIAGARA RD. (C.R.)

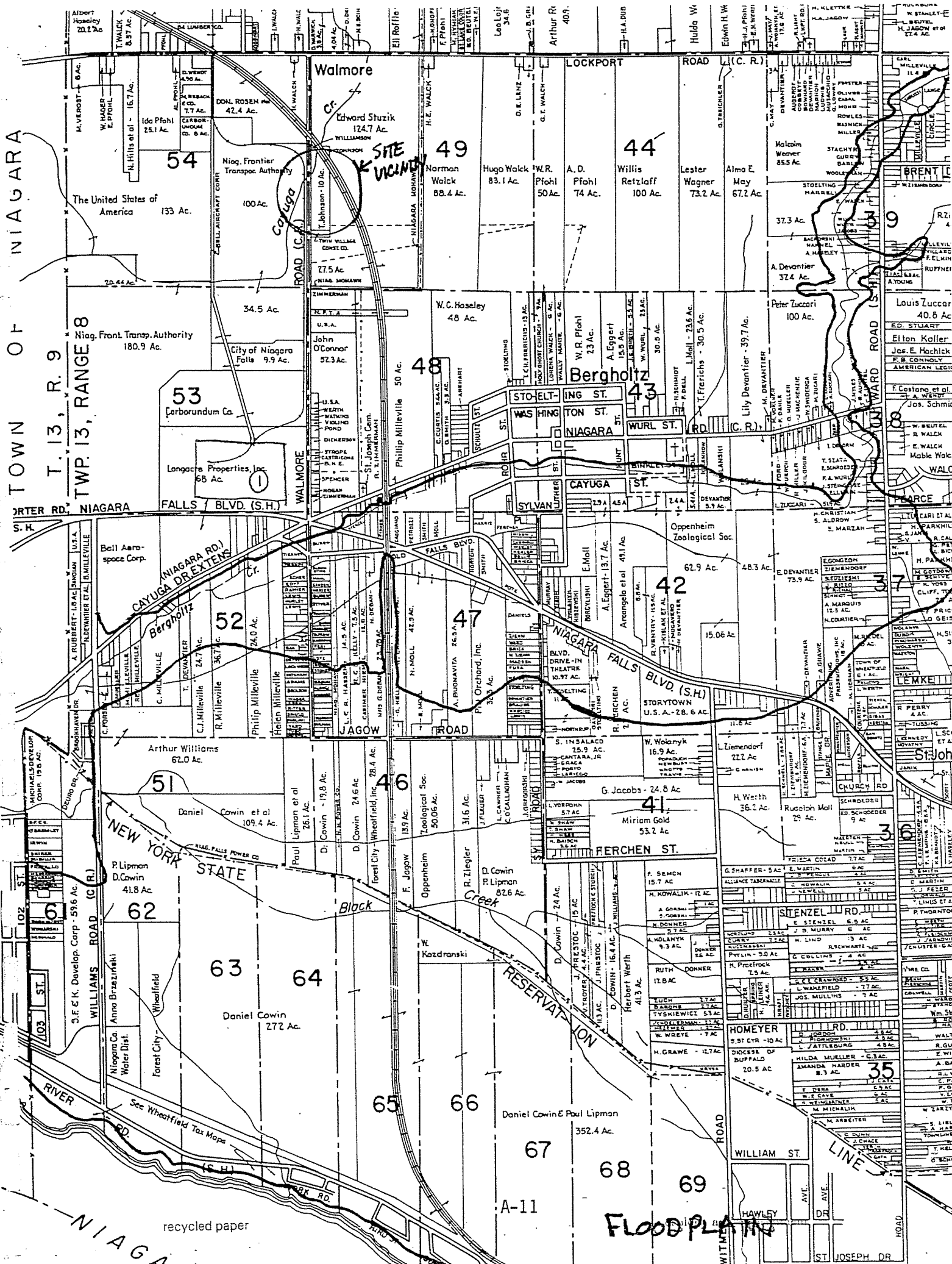
NIAGARA RD. (C.R.)

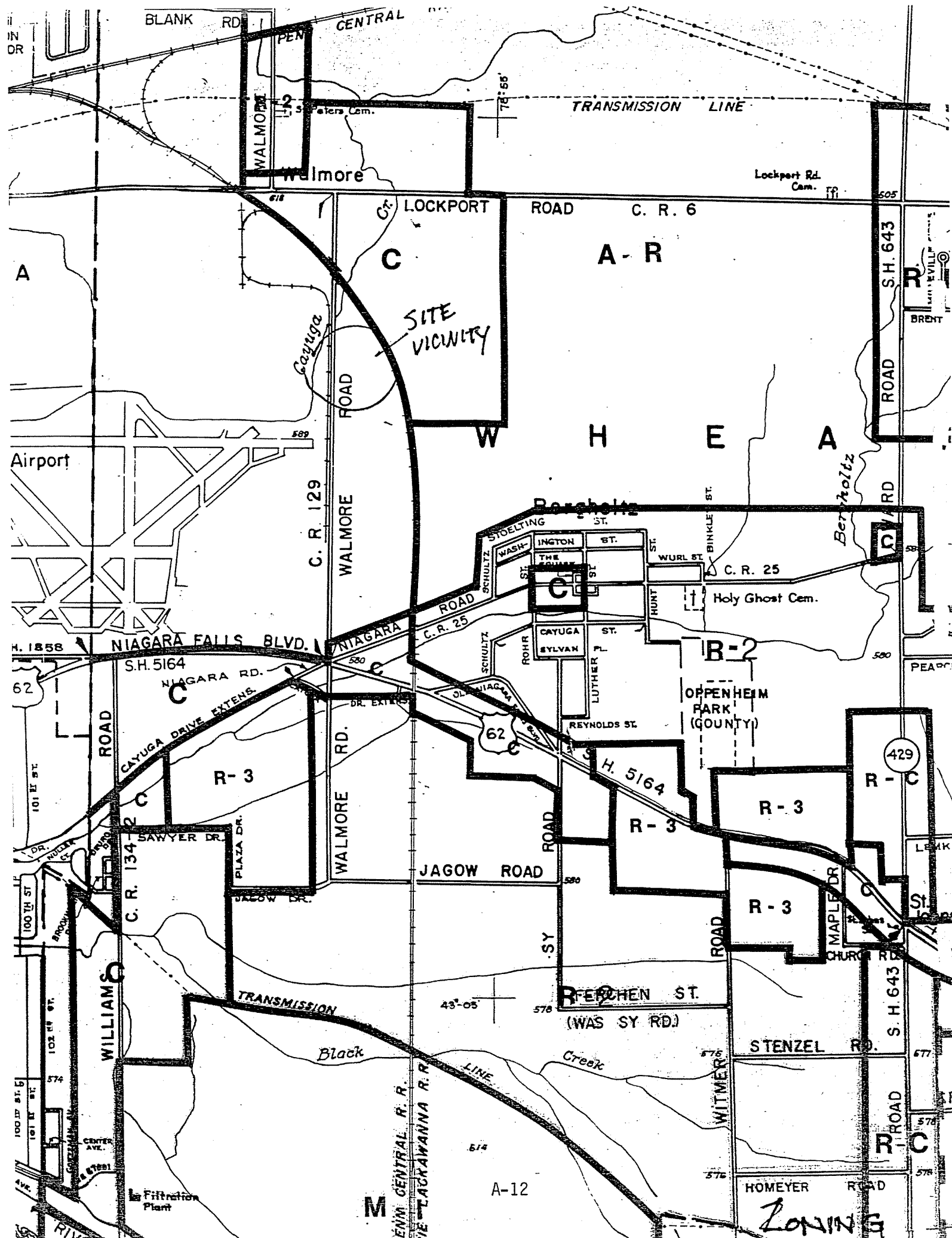
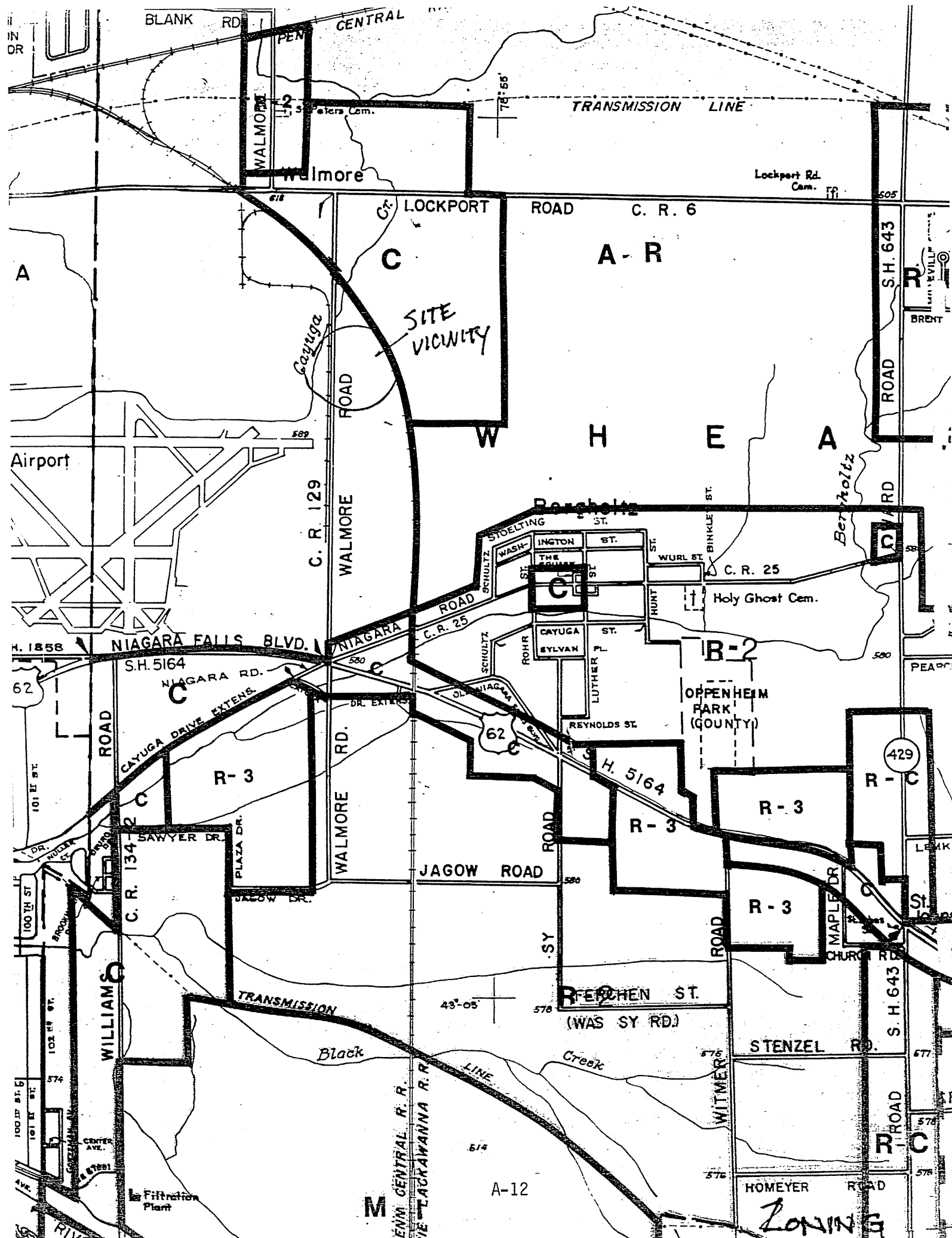
NIAGARA RD. (C.R.)

recycled paper

A-11

FLOOD PLAIN





ZONING

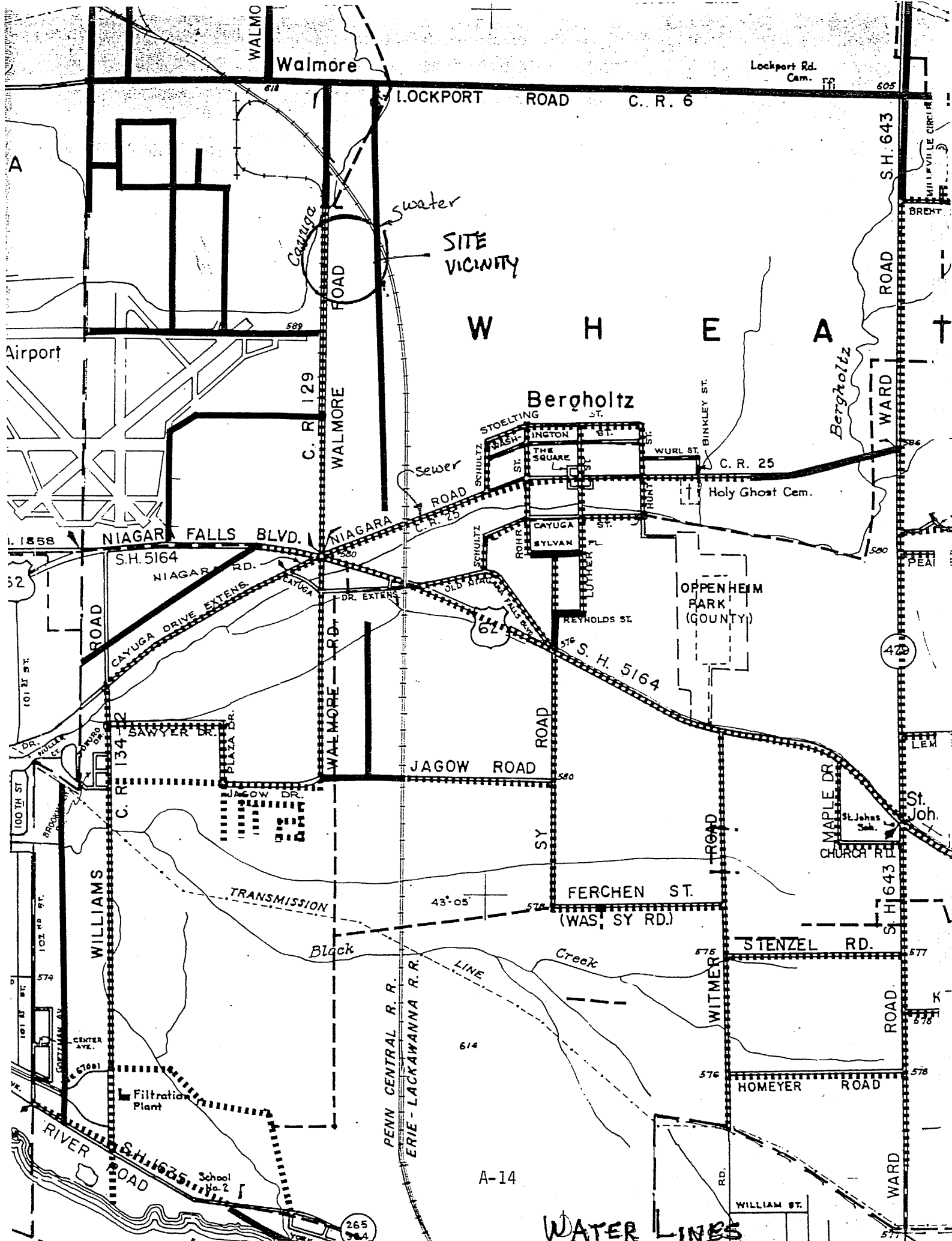
A-R- AGRICULTURAL - RESIDENTIAL

R - RESIDENTIAL

R-C RESTRICTED COMMERCIAL

C- COMMERCIAL

M- INDUSTRIAL



REFERENCE 4

NIAGARA COUNTY HEALTH DEPARTMENT

MEMORANDUM

DATE: December 6, 1984

TO: Peter Buechi

FROM: Mike Hopkins *M. Hopkins*

SUBJECT: JOHNSON PROPERTY - 6373 WALMORE ROAD, WHEATFIELD, NY

In response to a complaint received from Mr. Dean Johnson of 6373 Walmore Rd., this department has begun an investigation of an apparent inactive disposal site at that address. According to Mr. Johnson, the site was filled with graphite hardened resin, crushed plastic battery cases and similar materials by the Hasely Trucking Company many years ago. The fill is reportedly five feet deep in some areas. An area of one to three acres may be involved. A site sketch is attached.

It seems likely that this site may be the site listed in the Disposal Site Registry as the "Walmore Road Site" which was previously believed to be located 1000 to 1200 feet north of 6373 Walmore Road. It appears likely that two distinct sites are present. The description of the waste materials present at both locations is similar (i.e., mainly graphite).

There is a well on the Johnson property which is used to water fruit trees, etc., but not for drinking water. It would be possible to sample water from this well.

Since it appears that there is evidence that waste materials are present beneath or adjacent to an occupied dwelling, this department recommends that samples be collected and analyzed. This department could collect the samples but does not currently have the resources to have the samples analyzed. We are therefore requesting that your department consider having one or more samples from this site analyzed. At a minimum, we feel that analysis of a well water sample for THO and heavy metals would be appropriate.

If DEC can arrange for analysis of samples from this site, please contact me so that arrangements for sampling can be made.

MEH:cs
Attachment

cc: Mr. M. N. Vaughan
Mr. A. Tyebbi/DEC-9

Mr. Peter Bucchi

Dr. Frances Yang F.Y.

Analytical Result of a Groundwater Sample from Town of Wheatfield

February 11, 1985

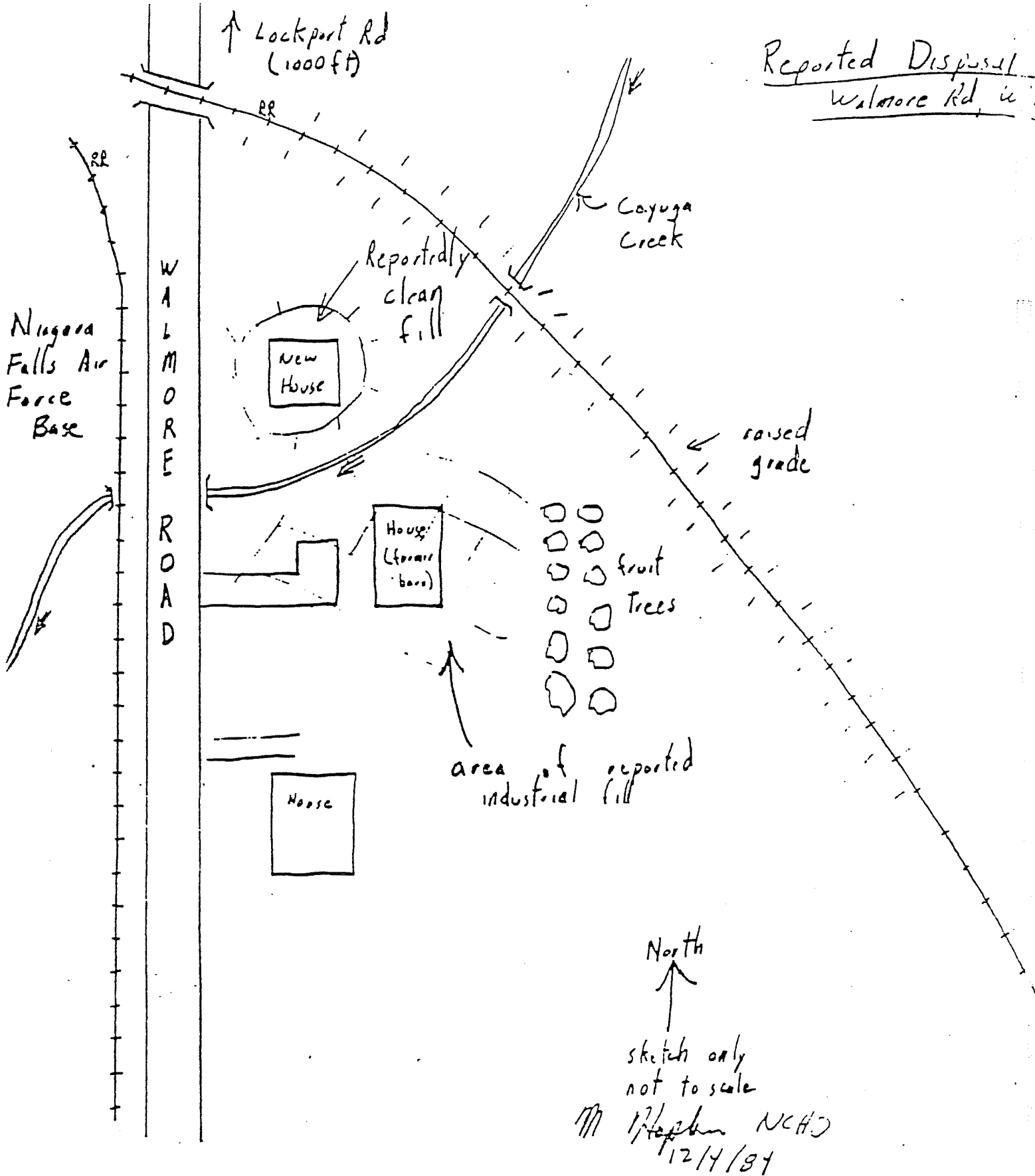
A water sample (DEC-91) was submitted for THO and metals analysis on January 7, 1985. The sample was taken from Johnson residence, 6373 Walmore Road, by Niagara County Health Department.

Result:

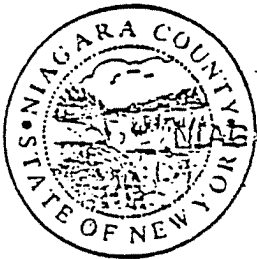
<u>Sample Designation</u>	<u>THO</u>	<u>Lead</u>	<u>Chromium</u>	<u>Cadmium</u>
DEC-91	n.d.	n.d.	n.d.	n.d.

FY:jlw

cc: Mr. Mike Hopkins - WCHD



REFERENCE 5



NIAGARA COUNTY

HEALTH DEPARTMENT
HUMAN RESOURCES BUILDING
MAIN POST OFFICE BOX 428
10th AND EAST FALLS STREET
NIAGARA FALLS, NEW YORK 14302

*Walmore Rd
Niagara Falls*

February 15, 1985

Mr. Dean Johnson
6373 Walmore Road
Niagara Falls, NY 14304

Dear Mr. Johnson:

Attached is a copy of the laboratory report submitted to this department from the Department of Environmental Conservation with the results of the analysis of water from your well. Please note that the Total Halogenated Organics (THO) concentration as well as the concentrations of Lead, Chromium and Cadmium were below detection limits.

Based on these results and considering that the well is not used for drinking water supply, this department sees no reason for concern regarding possible toxic contaminants in the well water. The water should be suitable for its present uses, which I understand to be as irrigation and washwater.

Please feel free to contact me with any questions.

Sincerely,

Michael E. Hopkins
Ass't. P.H. Engineer

MEH:cs
Attachment

cc: Mr. P. Buechi/DEC-9
Mr. J. J. Devald

REFERENCE 6

NIAGARA COUNTY DEPARTMENT OF HEALTH

Code Activity *Shee*
Code Location
Service Request No.
Date Received Complaint

Service Request *Well Water Supply / Landfill Concerns*
Originator of Complaint *Dean Johnson* Address *6373 Walmore Rd. - Tonawanda*
Owner Address *731-3888*
Occupant Address

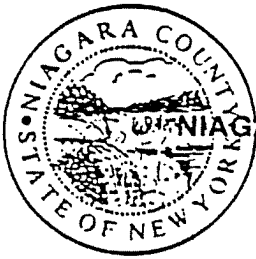
REPORT OF INVESTIGATION

11/13/84 Winter received call from Mr. Dean Johnson who resides at above address across from the Airbase entrance. Mr. Johnson is aware of the current investigation being conducted on the base regarding a former landfill site. Mr. Johnson has a ~~septic tank~~ *septic tank* on property noted to consist of flyash. He has a well on site that used to supply drinking water but is now only used for watering and purposes. Mr. Johnson is concerned about the airbase landfill, property and well water supply. Told him we would set up and examine property and find problem.

Phone 731-3888 Thur AM to set appointment.

- 11/14/84 2pm I met with Mr. Johnson. He informed me that:
- 1) Portions of his property are filled with waste materials including graphite, hardened resin, plastic battery cases, ect.
 - 2) The filled areas are up to 5 feet deep.
 - 3) He believes that the area was filled by Hazmat Trucking.
 - 4) There is a well on the property used for irrigation, washing cars, ect but not for drinking.

REFERENCE 7



NIAGARA COUNTY

HEALTH DEPARTMENT
5467 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK 14094

COPY

PATRICIA M. POWELL
Public Health Director
716-439-6129

January 15, 1985

Mr. James Johnson
6381 Walmore Road
Niagara Falls, New York 14304

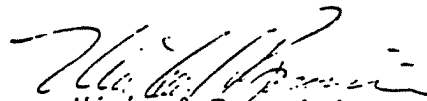
Re: Unsafe Private Water Supply
6381 Walmore Road
Town of Wheatfield

Dear Mr. Johnson:

On January 8, 1985, Mr. Stimson of this department made a sanitary survey of the well utilized as a source of private water supply for your residence at the above location. During this inspection, a sample of water was collected and submitted to the Niagara County Laboratory for bacterial examination. It is reported that organisms of the coliform group were present at the time of sampling, indicating that the supply was contaminated and unfit for human consumption at the time of sampling.

Inasmuch as the report of the survey indicates that this well is properly constructed and properly located with respect to known sources of pollution, it is quite possible that the contamination in this supply is of incidental origin. We would, therefore, suggest that this well be thoroughly disinfected in accordance with the enclosed instructions and this office notified so that a new sample may be taken. Until such time as a sanitary survey, confirmed by a bacterial analysis, indicates that this supply is of a safe sanitary quality, all water from it should be boiled before being used for human consumption, or culinary purposes.

Very truly yours,


Michael Popovici
Supervisory Public
Health Sanitarian

MP/cg
Enclosures

REFERENCE 8



ecology and environment, inc.

195 SUGG ROAD, P.O. BOX D, BUFFALO, NEW YORK 14225, TEL. 716-632-4491, TELEX 91-9183

International Specialists in the Environment

July 6, 1987

Mrs. Debbie Johnson
2 Cranston Street
Worcester, MA 01602

Dear Mrs. Johnson:

Thank you for calling last Friday, June 26, 1987 to provide information to Ecology and Environment, Inc. (E & E) concerning the Johnson property on Walmore Road in the Town of Wheatfield. To restate our role, E & E is working under a contract from the New York State Department of Environmental Conservation (DEC) to investigate suspected waste disposal sites in western New York. The Johnson property (specifically 6373 Walmore Road) is on the registry of such sites at the request of the owner, Mr. Dean Johnson, who suspected that industrial wastes may have been used as fill during the development of the property. For future reference, the DEC site code for this property is 932094. Any questions about the site or this investigation should be referred directly to the DEC.

With this letter, we would like to confirm the information you provided us over the telephone. This information is listed in Attachment 1. To provide sufficient documentation of this information, the DEC requires that we ask you to sign this document, acknowledging that the information (with any changes you may note) is correct to the best of your knowledge.

Thank you for your assistance in this investigation.

Sincerely,

Jon Sundquist

Attachment 1

Dean Johnson owns the property at 6373 Walmore Road
(converted barn) and 6367 Walmore Rd. (Ranch-style
house)

JAMES 4

DEBRA

Debbie Johnson owns the property at 6381 Walmore Rd.
(2 story farm house)

Debbie Johnson is Dean Johnson's sister-in-law

Debbie Johnson's father-in-law owns the property ~~between~~ ^{ON THE SOUTHERN}
6381 ~~the railroad embankment and~~ Walmore Road

- This land is leased to a farmer named Pfoul
- This farmer has farmed the land since at least 1979

The barn at 6373 Walmore Road was converted to a resi-
dence in ~~1980~~ APPROX. 1979 + 1980.

- Water line and septic tank installed at that time
- Water line runs from the road to the barn, parallel
to the driveway on its north side

The water line had completely corroded and was leaking
by 1984

- Water line was replaced with PVC piping
- Replacement work performed by Mr. Pete seeger, a
licensed plumber *

OUTSIDE- Plumbing at both 6367 and 6381 Walmore Road is in
accordance with Town water regulations

* ORIGINAL INSID
PLUMBING DONE BY
P SEEGER, NOT
SURE ON REPLACEM
WORK OR OUTSIDE
PLUMBING.

A military agency has tested the water in the well on
the property AT 6381 WALMORE RD.

- Analytical results were sent to Debbie Johnson
- Military agency indicated they were testing because
of a leaking fuel tank and possible buried trans-
formers on the air force base across Walmore Road
from the property

Debra J. Johnson
Signature

7/22/87
Date

MILITARY ANALYTICAL RESULTS ENCLOSED.

recycled paper

ecology and environment

ADVANCED ENVIRONMENTAL SYSTEMS, INC.

MONITORING and SUPPORT LABORATORY

Location:

4626 Royal Avenue
Niagara Falls, New York

P.O. Box
Niagara Falls, N.Y. 14
(716) 281-3

February 28, 1985

COPY

Mr. Dermont Smyth
Engineering Office
914 TAC ALFT GP (AFRES)
Niagara Falls Intl Aprt
Niagara Falls, New York 14304-5320

236-2043

Dear Mr. Smyth:

The oil and grease calculation I quoted to you over the telephone was in error. When I recalculated, I found the oil and grease to be virtually none. The flask used had actually lost weight, not gained, and I miscalculated it as a positive number.

My sincere apologies for this error.

Very truly yours,

ADVANCED ENVIRONMENTAL SYSTEMS, INC.

Marlene C. Moyer

Marlene C. Moyer

MCM/mb

*This explains why
we did not receive the
report til now.
Please go thru me
if you have questions
of the lab.
Dermott Smyth
236-2043.*

ANALYSIS OF ONE

WELL OR SAMPLE

COPY

Report prepared For

NIAGARA FALLS TACTICAL AIRLIFT GROUP

by

ADVANCED ENVIRONMENTAL SYSTEMS, INC.

W. Joseph McDougall
W. Joseph McDougall, Ph.D.
Technical Evaluation

February 1, 1985

AES - Report APH

P.O. No.

F30617-85-M-0234

COPY

SCOPE OF WORK

Under the direction of Mr. Smyth, this work was performed to fulfill an analytical requirement for the Mara Falls Tactical Airlift Group Facility.

RECEIPT OF SAMPLE

At 1:15 p.m., on January 7, 1985, Mr. Charles Calvert of Advanced Environmental Systems, Inc. sampled the groundwater well at the TAG Facility. Mr. Calvert then directly transported the sample to the Advanced Environmental Systems laboratory.

COPY

TYPE OF ANALYSIS: RESULTS - WET CHEMISTRY
 UNITS OF MEASURE: MILLIGRAMS/LITER, OR PPM
 CLIENT: NIA AIR BASE A.E.S. JOB CODE 01APH

ANALYSIS

METHOD REF SAMPLE IDENTIFICATION

DETERMINABLE LIMITS

1/7/85
 WELL WATER

TDS	160.1	3	1	324
OIL & GREASE	503A	6	1	BDL
TOC	415.1	3	0.1	7.22
POX*	9020	5	5 PPB	BDL
TOX*	9020	5	5 PPB	29.2
PHENOLS	420.1	3	0.01	BDL

TDS - Total Dissolved Solids

TOC - Total Organic Carbon

POX - Purgible Organic Halides

TOX - Total Organic Halides.

Results reported in micrograms/liter, or ppb

MARLENE C. MOYER

WET CHEMISTRY DIVISION

ADVANCED ENVIRONMENTAL SYSTEMS, INC.
LABORATORY REPORT

COPY

=====

TYPE OF ANALYSIS: RESULTS - METALS
UNITS OF MEASURE: MILLIGRAMS/LITER, OR PPM
CLIENT: NIA AIR BASE A.E.S. JOB CODE 01APH

ANALYSIS	METHOD	REF	SAMPLE IDENTIFICATION
			11
			DETERMINABLE 1/7/85
			LIMITS WELL WATER
	239.1	3	0.10 BDL

REFERENCE 9



ecology and environment, inc.

BUFFALO CORPORATE CENTER

368 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060

International Specialists in the Environment

May 20, 1988

Mr. Brian Smith
Bell Aerospace Textron
P.O. Box 1
Buffalo, New York 14240

Dear Mr. Smith:

Thank you for speaking with me last week concerning the suspected waste disposal site at 6373 Walmore Road in Wheatfield. As I mentioned on the telephone, E & E is currently under contract to the DEC to conduct a Phase 1 investigation of this property to determine whether the fill present there poses a threat to human health or the environment. As per our conversation, I am including a copy of the DEC Inactive Hazardous Waste Disposal Site registry form that indicates that the waste may have come from Bell Aerospace. I am also including a copy of the Niagara County Health Department memorandum that initially identified this property as a site of possible concern.

I am sorry I didn't follow up on our telephone conversation earlier. I had been trying to track down references that indicated that the fill was emplaced in 1980. Unfortunately, no such documentation could be found. Thus, contrary to what I indicated on the telephone, it is not known precisely when the area was filled.

We would appreciate any information Bell Aerospace may have concerning this site. Your assistance in the investigation is greatly appreciated.

Sincerely yours,

Jon Lundquist *bf*

JS:bf-9

REFERENCE 10

A-35

Bell Aerospace Textron
Division of Textron Inc.

Post Office Box One
Buffalo, New York 14240-0001
716/297-1000

29 July 1988

Jon Sundquist
Ecology and Environment, Inc.
Buffalo Corporate Center
368 Pleasantview Drive
Lancaster, NY 14086

Dear Mr. Sundquist:

I am writing in response to your May 20, 1988 letter to Brian Smith.

While we would like to provide assistance we are unable to do so at this time. We have no record of involvement at this site. Our manifest system started in 1981, after the period in question.

Sincerely,



Carl G. Buzawa
Vice President - Division Counsel

cla

REFERENCE 11
(See Appendix C)

REFERENCE 12

COLOSSAL CATARACT

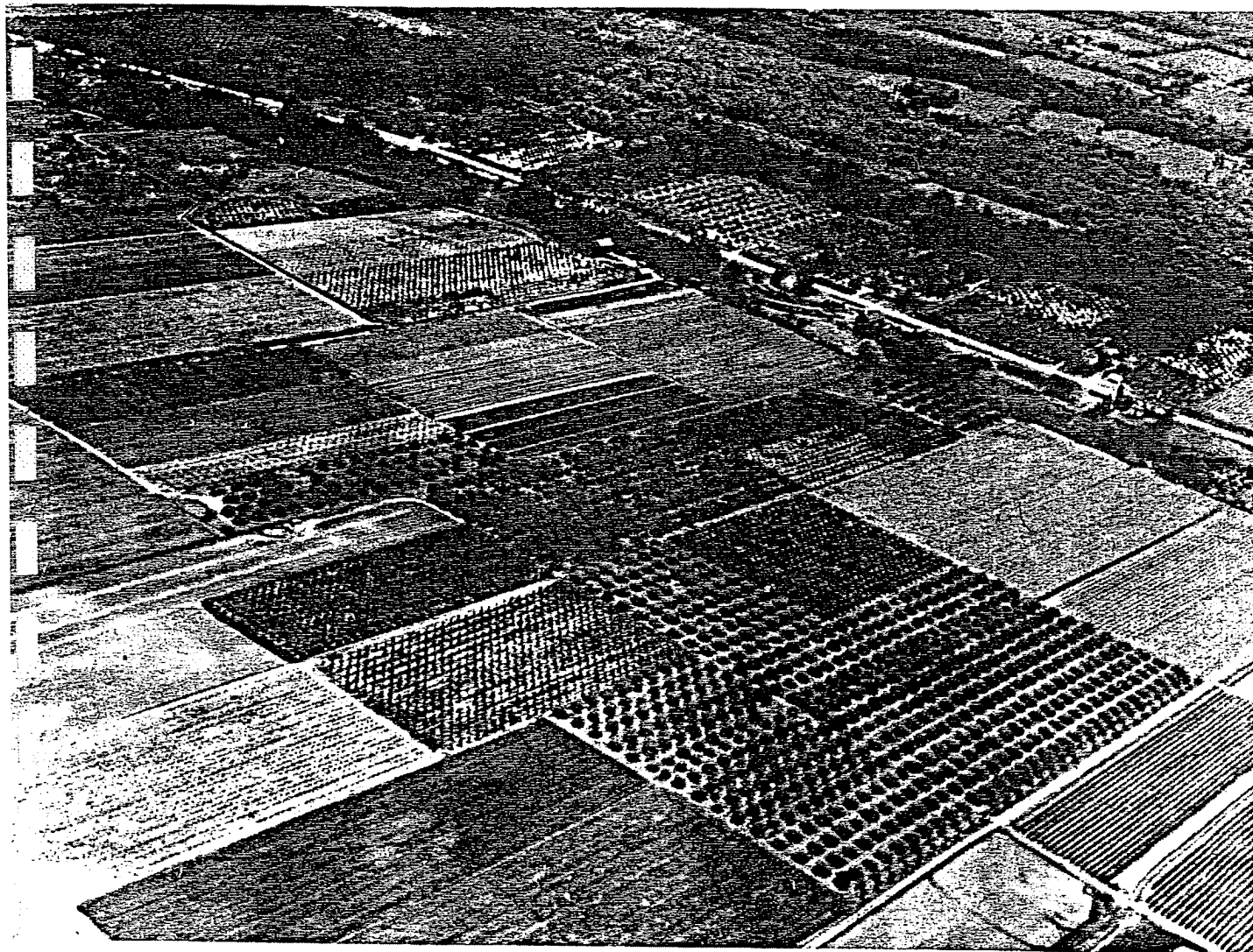
QE
146.N6
C64

*The Geologic History
of Niagara Falls*

EDITED BY
IRVING H. LESMER

REFERENCE 13

SOIL SURVEY OF Niagara County, New York



United States Department of Agriculture
Soil Conservation Service
In cooperation with
Cornell University Agricultural Experiment Station

Issued October 1972

A-41

REFERENCE 14
(See Figure 1-1)

REFERENCE 15



New York State Department of Environmental Conservation

File

MEMORANDUM

TO: Mr. Demick - Western Investigation Section
FROM: Mr. Tygert - Region 9 *John S. Tygert*
SUBJECT: Walmore Road Site (932094)
DATE: September 17, 1986

On September 17, 1986, Mr. Clare of Region 9 and Mr. Lupe of your Section discussed the problem with site identification of the Walmore Road site. It was agreed that the two sites should be separated in the Registry. We recommend the following division be made:

1. 932094 - Existing file for Walmore Road. Change name to Lockport Road Site.
2. - Add new site identified by the Niagara County Health Department in 1982. Name this site Johnson Site - Walmore Road.

It is also recommended that the Johnson Site - Walmore Road be added to the next schedule of Phase I Investigations.

This recommendation was previously made to your Office in a memorandum (undated, unfortunately) written on March 6, 1986. Mr. Lupe advises that this request is not available in your file.

Your consideration of this recommendation will be appreciated.

We will prepare appropriate forms as presented at Sept 25 WEC meeting

cc: Mr. Buechi
Mr. Clare ✓
Mr. Olazagasti
Mr. Lupe
Mr. Hopkins

REFERENCE 16

RECEIVED: **RECEIVED OCT 4 1984**

TRACKING INITIATED:

Aerospace **TEXTRON**

CATEGORIZED:

ICS ☐ I ☐ F ☐ NONE ☒

CATEGORY TRACKED:

4 October 1984

INTERPRETATION/FORMATTING:

mental Conservation
Waste

ENTERED OCT 15 1984

DATA ENTERED:

FINAL CLASSIFICATION:

aching its records in order to prepare as accurate
ernor Cuomo's Executive Order #33 of December, 1983.
orders, vouchers, Accounts Payable records,
etc.

ords to be analyzed. The Company is in the process
records using audit techniques to trace past
disposal practice. The earliest of the purchase orders by which Bell purchased
waste hauling services date to 1966. These records are commingled with all company
purchase orders which number in the hundreds of thousands and are not specifically
identified by subject.

The earliest records which deal specifically with the disposal of waste date to
1966. The earliest records which deal with processes involving chemicals date
to 1958. These records require study to determine if they contain information
which may suggest where and how waste may have been disposed of.

We have found the following data, thus far, which will be included in the Generator
Questionnaire when it is prepared in final form:

- (1) An unknown quantity of Virgo Salts (caustic soda) was
transported by an unknown carrier to the Niagara County
Refuse Disposal District in November, 1972.
- (2) The following chemicals were picked up at Bell Aerospace
Textron and disposed of by Frontier Chemical Waste Process,
Inc. of Niagara Falls, New York in June, 1975:

3	-	55	gal.	drums	of	acetone
4	-	"	"	"	"	alcohol
2	-	"	"	"	"	brush wash (mixed solvents)
22	-	"	"	"	"	off-specification UDMH (unsymmetrical dimethyl hydrazine)

TO: Miss Cindy Multhaup

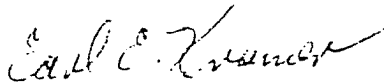
-2-

4 October 1984

- (3) Eight pounds of thorium were delivered to ATCOR in Peekskill, New York in December, 1976. The carrier was a company named "McCormacks".

As I indicated to NYSDEC previously, we have rehired a retired Bell Aerospace Textron employee specifically to work on this task. We are working the problem and will provide a report on our progress in December, 1984 by which time we expect that the principal relevant information will have been extracted from the available records.

Very truly yours,



Earl E. Kramer
Mgr., HRD, Safety and
Environmental Affairs

EEK/jfs



GENERATOR FORM
PART - II

NAME Bell Aerospace Texttron	ICS NUMBER - EPA ID NUMBER NYD002106276
ADDRESS P. O. Box 1	
CITY Buffalo	STATE N.Y.
	ZIP 14240

ENTERED EDP JAN 17 1985

DATE 11/28/84

1. HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS)	2. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS)	3. EPA WASTE CODE	4. WASTE DISPOSED OF QUANTITY OF WASTE (TONS)	FORM D I S P O S I T I O N	5. WASTE DISPOSAL DATES	6. TRANSPORTER OF HAZARDOUS WASTE (SEE INSTRUCTIONS)
UNKNOWN	HAZARDOUS MATERIAL	D000	99999999	X	52-72	UNKNOWN
Niagara County Refuse Disposal District	Unknown quantity of caustic soda	D002	Unknown	X	11/9/72	Unknown
Chemtrol Lake Avenue Hamburg, N.Y.	4 drums of waste PCB	B001	0.06 tons	X	2/15/73	Unknown
Atcor, Inc. 5 Westchester Plaza Elmsford, N.Y. 10523	RA226 as Radium Sulfate on-metal foil chips	None	Less than one ounce	X	1/9/74	McCormacks (unknown)
Frontier Chemical Waste Process, Inc. 4626 Royal Avenue Niagara Falls, N.Y. 14303	1 container Aluminum Hydride	D001	0.08 tons	X	5/7/75	Unknown
"	22 drums of Unsymmetrical Dimethylhydrazine	U098	5.2 tons	X	6/2/75	"
"	6-3 - 55 gals. Acetone 1-4 - 55 gals. Alcohol 8-2 - 55 gals. Mixed Acetone, Alcohol, Brushwash & Other	U002 D001 D001	2.05 tons	X X X	5/20/75	"

IDREF: 106
 P.O. Box 1
 CITY: Buffalo
 STATE: N.Y.
 ZIP: 14240

GENERATOR FORM
 PART - II

DATE 11/28/84

RECEIVED FOR JAN 17 1985
 (OFFICE OF THE ATTORNEY GENERAL)

1. HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS)	2. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS)	3. EPA WASTE CODE	4. WASTE QUANTITY OF WASTE (TONS)	FORM DISPOSAL SOLID LIQUID	5. WASTE DISPOSAL DATES	6. TRANSPORTER OF HAZARDOUS WASTE (SEE INSTRUCTIONS)
Frontier Chemical Waste Process, Inc. 4626 Royal Avenue Nia. Falls, N.Y. 14303	9350 gals. Conc. Sulfuric Acid 30 gals. Aqueous Solu- tion w/1575 lbs. Clepo	D002 D007	3.5 tons	X X	5/20/76	Unknown
Wyoming Waste Disp. 22 Grant Street N. Tonawanda, NY 14120	Small quantities of chemicals (Lab pack)	Unknown	Unknown	X	9/14/76	Unknown
Atcor, Inc. Park Mall Peekskill, NY 10566	Natural Thoria	None	8 lbs.	X	12/14/76	McCormacks (unknown)
Bison Waste Oil Co. 12866 Broadway Alden, N.Y. 14120	18 - 55 gals. cont. of brushwash	D001	4.11 tons	X	6/28/77	(Unknown)
"	16 - drums of brushwash	D001	3.65 tons	X	10/?/78	(Unknown)
"	5 drums of alcohol	D001	0.60 tons	X	10/?/78	(Unknown)
CECOS International 56th St. & Pine Ave. Nia. Falls, N.Y. 14303	73-55 gal drums discarded lab chemicals (lab pack)	D000 D001 D002 D003	5.48 tons	X X	1/23/81	Lorber Trucking 1140 Military Rd. Buffalo, N.Y. 9X-015

GENERATOR FORM PART - II

NAME Bell Aerospace Textron	ICS NUMBER - EPA ID NUMBER NYD002106276
ADDRESS P. O. Box 1	
CITY Buffalo	STATE N.Y.
	ZIP 14240

DATE 11/28/84

1. HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS)	2. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS)	3. EPA WASTE CODE	4. WASTE DISPOSED OF QUANTITY OF WASTE (TONS)	FORM DISPOSAL SLIP	5. WASTE DISPOSAL DATES	6. TRANSPORTER OF HAZARDOUS WASTE (SEE INSTRUCTIONS)
CECOS International 56th St. & Pine Ave. Nia. Falls, N.Y. 14303	28 drums Isopropyl Alcohol 17	D001	6.02 tons	x	8/19/81	Newco Waste 4626 Royal Ave. Nia. Falls, NY 9A-008
"	29 drums Brushwash 18	D001	6.62 tons	x	8/19/81	Newco Waste 4626 Royal Aven Niagara Falls,
"	PCB Solid Waste (Rags, clothing) 7 drums 19	B006	0.17 tons	x	10/9/81	"
"	6 drums Perchloroethylene 20	F001	1.37 tons	x	10/26/81	Cataract Trucki 2445 Allen Aven Niagara Falls, 14303
"	5 drums Freon 21	F002 F001	1.14 tons	x	10/26/81	9A-091
"	3 drums Trichlorethylene 22	F001	0.68 tons	x	10/26/81	"
"	2 drums Liquid Tar 23	D001	0.46 tons	x	10/26/81	"

GENERATOR FORM

PART - II

NAME Bell Aerospace Textron		ICS NUMBER - EPA ID NUMBER NYD002106276	
ADDRESS P.O. Box 1			
CITY Buffalo	STATE N.Y.	ZIP 14240	

DATE 11/28/84

1. HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS)	2. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS)	3. EPA WASTE CODE	4. WASTE DISPOSED OF QUANTITY OF WASTE (TONS)	FORM D I S P O S I T I O N	5. WASTE DISPOSAL DATES	6. TRANSPORTER OF HAZARDOUS WASTE (SEE INSTRUCTIONS)
CECOS International 56th St. & Pine Avenue Nia. Falls, N.Y. 14303	9 drums pickle liquor 24	D002	2.05 tons	x	10/26/81	Cataract Trucking 2445 Allen Avenue Nia. Falls, N.Y. 9A-081 14303
"	6 drums Phosphoric Acid 25	D002	1.37 tons	x	10/26/81	"
Enesco, Inc. American Oil Road Eldorado, Arkansas 71730	16 drums PCB Contaminated Oil	B001 B003	3.65 tons	x	11/10/81 9A-081	Newco Waste #1 4626 Royal Ave. Nia. Falls, N.Y. Tonawanda Tank 1140 Military F
"	1 drum (3 capacitors w/PCB)	B007	0.06 tons	x	11/10/81	"
CECOS International 56th St. & Nia.Falls Blvd. Nia. Falls, N.Y. 14303	Bulk - Nitric Acid Plating Solution 26	D002	7.24 tons	x	12/14/81	Tonawanda Tank Transport Servi 1140 Military R Buffalo, N.Y.
"	Bulk - Pickle Liquor 27	D002	6.23 tons	x	12/22/81 9A-045	Nia. Industrial Warehouse 4626 Royal Avenue Nia. Falls, N.Y.
"	1 empty high voltage transformer; decontami- nated of PCB oil (3700 lbs.)	B010	1.85 tons	x	1/25/82	CECOS Internati 56th & N.F.Blvd Nia. Falls, N.Y.

NAME Bell Aerospace Textron		ICS NUMBER - EPA ID NUMBER NYD002106276	
ADDRESS P.O. Box 1			
CITY Buffalo	STATE N.Y.	ZIP 14240	

**GENERATOR FORM
PART - II**

DATE **11/28/84**

1. HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS)	2. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS)	3. EPA WASTE CODE	4. WASTE DISPOSED OF QUANTITY OF WASTE (TONS)	FORM LIQUID SOLID DRUMS	5. WASTE DISPOSAL DATES	6. TRANSPORTER OF HAZARDOUS WASTE (SEE INSTRUCTIONS)
CECOS International 56th St. & N.F. Blvd. Nia. Falls, N.Y. 14303	Bulk - Chromic Acid Anodizing Solution	D002	6.23 tons	x	3/19/82	Newco Waste 4626 Royal Aven Nia. Falls, N.Y.
CECOS International 5092 Aber Rd. Williamsburg, Ohio 45232	33 drums Sodium Nitrate Heat Treat Salt	D001	12.7 Tons	x	6/15/82	Cataract Truck Car Rental 2445 Allen Avenue Nia. Falls, N.Y.
Frontier Chemical Waste Process Inc. 4626 Royal Avenue Niagara Falls, N.Y.	7 drums Nickel Sulfamate	D002	1.6 tons	x	7/23/82	Frontier Chemical Waste Process Inc. 4626 Royal Avenue Nia. Falls, N.Y.
"	1 drum Silver Cyanide Plating Bath	P104	0.11 tons	x	7/23/82	"
"	7 drums Nickel Sulfamate Plating Solution with 10 oz/gal Nickel Sulfate mic acid and 4 oz/gal Boric Acid	D002	1.60 tons	x	7/23/82	"
"	4 drums Copper Sulfate	D002	0.91 tons	x	7/23/82	"
"	5 drums Sodium Cyanide Salt Soln.	P106	1.14 tons	x	7/23/82	"

GENERATOR FORM

PART - II

DATE 11/28/84

NAME Bell Aerospace Textron		ICS NUMBER - EPA ID NUMBER NYD002106276	
ADDRESS P.O. Box 1		STATE N.Y.	ZIP 14240
CITY Buffalo			

recycled paper

1. HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS)	2. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS)	3. EPA WASTE CODE	4. WASTE DISPOSED OF QUANTITY OF WASTE (TONS)	FORM LIQUID SOLID DRUMS	5. WASTE DISPOSAL DATES	6. TRANSPORTER OF HAZARDOUS WASTE (SEE INSTRUCTIONS)
Frontier Chemical Waste Process, Inc. 4626 Royal Avenue Niagara Falls, N.Y.	16 drums Freon	F002	3.65 tons	x	7/23/82	Frontier Chemica Waste Process, I 4626 Royal Aven Niagara Falls,
"	1 drum Aviation Fuel	D001	0.23 tons	x	7/23/82	"
"	2 drums Hydraulic Oil w/Monomethyl Hydrazine- generated at BTC (AF plant No. 38)	P068	0.46 tons	x	7/23/82	"
"	2 drums Aluminum Solids w/Hydrazine base generated at BTC (AF plant No. 38)	U133	0.46 tons	x	7/23/82	"
"	5 drums Sodium Dichromate	D007	1.14 tons	x	7/23/82	"
"	1 drum waste Alcohol, Freon, Trichloroethylene, Humiseal	D001	0.23 tons	x	7/23/82	"
"	1 drum Kester Soldering Flux	D001	0.13 tons	x	10/18/82	"

GENERATOR FORM

PART - II

DATE 11/28/84

NAME Bell Aerospace Textron		IC NUMBER NYD002106276	
ADDRESS P. O. Box 1			
CITY Buffalo	STATE N.Y.	ZIP 14240	

1. HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS)	2. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS)	3. EPA WASTE CODE	4. WASTE DISPOSED OF QUANTITY OF WASTE (TONS)	FORM LIQ SOL DRUM	5. WASTE DISPOSAL DATES	6. TRANSPORTER OF HAZARDOUS WASTE (SEE INSTRUCTIONS)
Frontier Chemical Waste Process, Inc. 4626 Royal Avenue Niagara Falls, N.Y. 14303	2 drums (40 gals) Waste Acid Liquids NOS	D002	0.33 tons	x	10/18/82	Frontier Chemical Waste Process, Inc. 4626 Royal Avenue Nia. Falls, NY 14303
"	2 drums Waste Alkaline Solution NOS	D002	0.46 tons	x	10/18/82	"
CECOS International 56th St. & N.F. Blvd. Niagara Falls, N.Y.	1 drum Hazardous Waste Solid	F002	0.23 tons	x	11/15/82	CECOS International 56th & N.F. Blvd. Niagara Falls, NY
"	1 drum Potassium Hydroxide	D002	0.23 tons	x	11/15/82	"
"	2 drums Waste Solvents	D001	0.46 tons	x	11/15/82	"
Frontier Chemical Waste Process, Inc. 4626 Royal Avenue Niagara Falls, NY	3 drums Hazardous Solid Waste (lab pack)	D002	0.50 tons	x	11/15/82	Frontier Chemical Waste Process Inc 4626 Royal Avenue Nia. Falls, N.Y.
"	34 drums Hazardous Solid Waste (Lab Pack)	D001	5.61 tons	x	11/15/82	"

NAME Bell Aerospace Textron		ICS NUMBER - EPA ID NUMBER NYD002106276	
ADDRESS P. O. Box 1			
CITY Buffalo	STATE NY	ZIP 14240	

GENERATOR FORM PART - II

DATE 11/28/84

1. HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS)	2. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS)	3. EPA WASTE CODE	4. WASTE DISPOSED OF QUANTITY OF WASTE (TONS)	FORM LIQUID SOLID DRUMS	5. WASTE DISPOSAL DATES	6. TRANSPORTER OF HAZARDOUS WASTE (SEE INSTRUCTIONS)
Frontier Chemical Waste Process, Inc. 4626 Royal Avenue Niagara Falls, N.Y.	2 drums Hazardous Solid Waste (Lab Pack)	D007	0.33 tons	x	11/15/82	Frontier Chemica Waste Process I 4626 Royal Aven Nia. Falls, N.Y
"	1 drum Organic Peroxide mixture	D001	0.17 tons	x	11/15/82	"
"	2 drums Waste Solvents - Brush Wash	D001	0.46 tons	x	11/15/82	"
"	Monomethyl Hydrazine w/water & Silicone Oil	P068	0.84 tons	x	9/8/83	"
"	Hydrazine w/Aluminum, water & Freon	D133	1.16 tons	x	9/8/83	"
"	Waste Isopropyl & Water	D001	0.99 tons	x	9/8/83	"
"	Methyl Alcohol w/Water	D001	0.72 tons	x	9/8/83	"

GENERATOR FORM PART - II

DATE 11/28/84

NAME Bell Aerospace Textrol		ICS NUMBER - EPA ID NUMBER NYD002106276	
ADDRESS P. O. Box 1		STATE NY	ZIP 14240
CITY Buffalo			

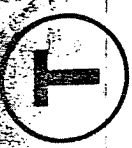
1. HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS)	2. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS)	3. EPA WASTE CODE	4. WASTE DISPOSED OF QUANTITY OF WASTE (TONS)	FORM LIQUID SOLID DRUMS	5. WASTE DISPOSAL DATES	6. TRANSPORTER OF HAZARDOUS WASTE (SEE INSTRUCTIONS)
* Frontier Chemical Waste Process, Inc. 4626 Royal Avenue Niagara Falls, N.Y.	1,1,1 Trichloroethane	F002	0.3 tons	x	9/8/83	Frontier Chemi Waste Process I 4626 Royal Aven Nia. Falls, N.Y
* "	Trichlorofluoromethane	F002	0.3 tons	x	9/8/83	"
"	Toluene	D001	0.20 tons	x	9/8/83	"
"	Waste Solvents NOS	D001	0.20 tons	x	9/8/83	"
"	Hazardous Waste Solids NOS (LAB PACK)	D005	0.10 tons	x	9/8/83	"
"	Hazardous Waste Solids NOS (Lab Pack)	D009	0.10 tons	x	9/8/83	"
"	Waste Flammable Liquid NOS	D001	0.05 tons	x	9/8/83	"

PART - II

recycled paper

*

ecology and environment



NAME		Bell Aerospace Textron		TRANSPORTER ID# 6276	
ADDRESS		P. O. Box 1			
CITY	Buffalo	STATE	NY	ZIP	14240

TRANSPORTER FORM
PART-II

DATE 11/28/84

1. HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS)	2. NAME OF FIRM-COMPANY THAT PRODUCED INDUSTRIAL WASTE (SEE INSTRUCTIONS)	3. DATES OF SHIPMENT (MONTH) (YEAR)	4. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS)	5. EPA WASTE CODE	6. WASTE DISPOSED OF QUANTITY OF WASTE (TONS)	FORM LOCID SOLID
Frontier Chemical Waste Process, Inc. 4626 Royal Avenue Niagara Falls, NY 14303	Bell Aerospace Textron at Bell Test Center (AF Plant #38) 9177962	8/20/81	Hydraulic Oil with Monomethylhydrazine	P068	0.46 tons	X
"	"	8/20/81	Aluminum Solids with Hydrazine base	U133	0.46 tons	X
* NOTE: Placed in storage at main Wheatfield plant until ultimately disposed of by Frontier at their site.	kg2 Only A wastes					

REFERENCE 17

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

PHASE II INVESTIGATIONS

Lockport Road-Struzik Property
Town of Wheatfield, Niagara County
Site No. 932094

February 1992



Prepared for:

**New York State Department
of Environmental Conservation**

50 Wolf Road, Albany, New York 12233

Thomas C. Jorling, Commissioner

Division of Hazardous Waste Remediation

Michael J. O'Toole, Jr., P.E., Director

Prepared by:

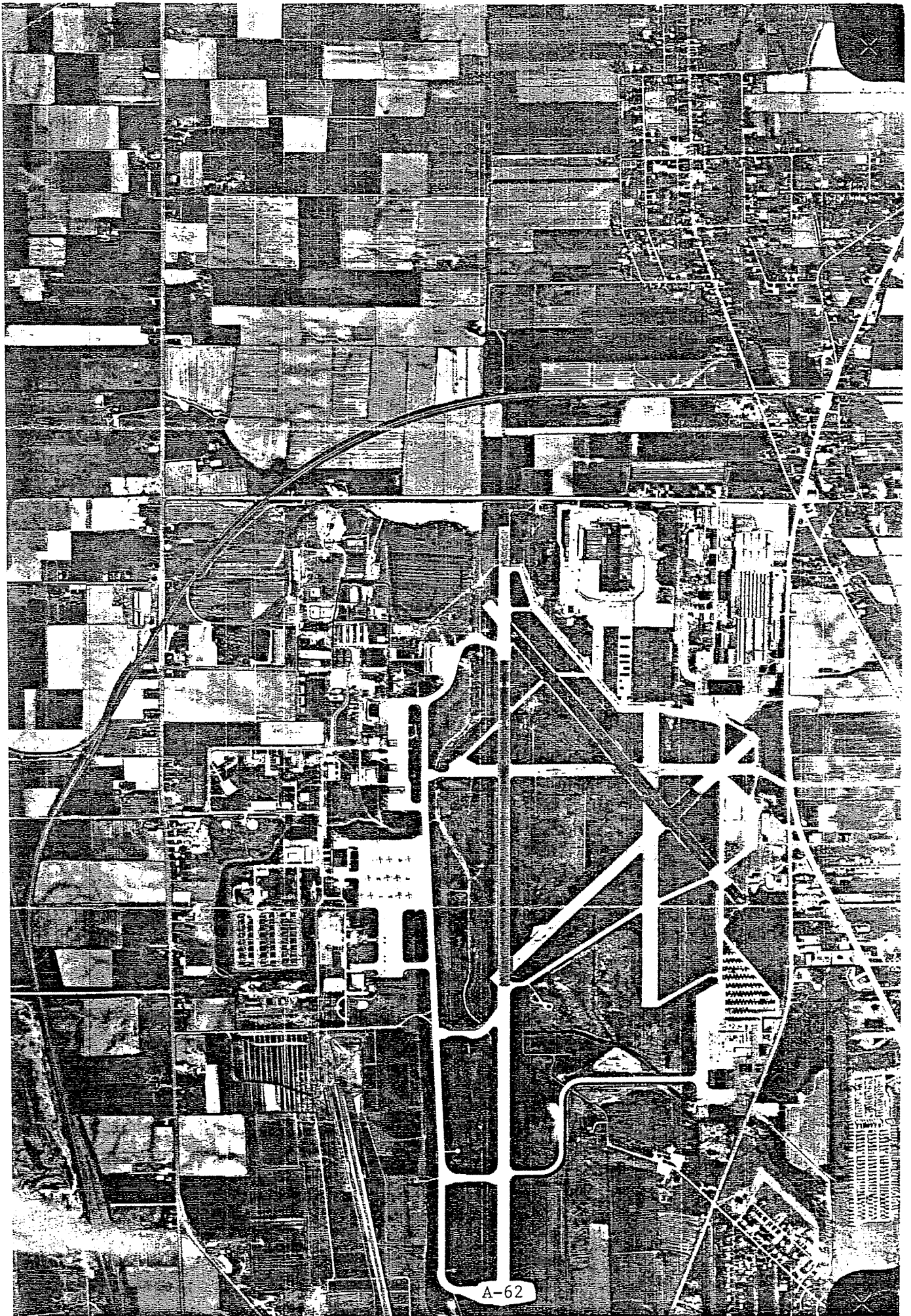


**ecology and environment
engineering, p.c.**

BUFFALO CORPORATE CENTER

368 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060

REFERENCE 18



1968 April

N

Walmore Rd Johnson

Walmore Rd Johnson

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

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT				I. IDENTIFICATION	
PART 1 - SITE LOCATION AND INSPECTION INFORMATION				01 State	02 Site Number
				NY	932101
II. SITE NAME AND LOCATION					
01 Site Name (legal, common, or descriptive name of site) Walmore Road - Johnson Property			02 Street, Route No., or specific location identifier 6373 Walmore Road		
03 City Town of Wheatfield		04 State NY	05 Zip Code 14304	06 County Niagara	07 County Code 063
08 Cong. Dist.					
09 Coordinates Latitude 43° 06' 58" N		Longitude 78° 55' 25" W		10 Type of Ownership (check one) <input checked="" type="checkbox"/> A. Private <input type="checkbox"/> B. Federal <input type="checkbox"/> C. State <input type="checkbox"/> D. County <input type="checkbox"/> E. Municipal <input type="checkbox"/> F. Other <input type="checkbox"/> G. Unknown	
III. INSPECTION INFORMATION					
01 Date of Inspection 5 / 2 / 91 Month Day Year		02 Site Status <input type="checkbox"/> Active <input checked="" type="checkbox"/> Inactive		03 Years of Operation Beginning Year Ending Year <input checked="" type="checkbox"/> Unknown	
04 Agency Performing Inspection (check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA Contractor <input type="checkbox"/> C. Municipal <input type="checkbox"/> D. Municipal Contractor <input type="checkbox"/> E. State <input checked="" type="checkbox"/> F. State Contractor Ecology and Environment Engineering, P.C. (name of firm) (name of firm) (specify)					
05 Chief Inspector Scott Glinaki		06 Title Land Use Planner		07 Organization E & E	
08 Telephone No. (716) 684-8060					
09 Other Inspectors Linda Fischer		10 Title Environmental Scientist		11 Organization E & E	
12 Telephone No. (716) 684-6060					
Abul Barkat		Engineer		NYSDEC	
				()	
				()	
13 Site Representatives Interviewed		14 Title		15 Address	
				16 Telephone No. ()	
				()	
				()	
				()	
17 Access Gained by (check one) <input checked="" type="checkbox"/> Permission <input type="checkbox"/> Warrant		18 Time of Inspection 3:00 p.m.		19 Weather Conditions Overcast, Cloudy Temperature 50°F	
IV. INFORMATION AVAILABLE FROM					
01 Contact Abul Barkat		02 Of (Agency/Organization) NYSDEC			03 Telephone No. (716) 847-4585
04 Person Responsible for Site Inspection Form Scott Glinaki		05 Agency	06 Organization E & E	07 Telephone No. (716) 684-8060	08 Date 5 / 2 / 91 Month Day Year

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 State

NY

02 Site Number

932101

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 Physical States (check all that apply)

- ☒ A. Solid ☐ E. Slurry
☒ B. Powder, Fines ☐ F. Liquid
☒ C. Sludge ☐ G. Gas
☐ D. Other _____

02 Waste Quantity at Site (measure of waste quantities must be independent)

Tons _____
 Cubic Yards _____
 No. of Drums _____

03 Waste Characteristics (check all that apply)

- ☐ A. Toxic ☐ H. Ignitable
☐ B. Corrosive ☐ I. Highly volatile
☐ C. Radioactive ☐ J. Explosive
☐ D. Persistent ☐ K. Reactive
☐ E. Soluble ☐ L. Incompatible
☐ F. Infectious ☐ M. Not applicable
☐ G. Flammable

III. WASTE TYPE

Category	Substance Name	01 Gross Amount	02 Unit of Measure	03 Comments
SLU	Sludge			This property reportedly has been backfilled with graphite,
OLW	Oily waste			plastic battery cases, hardened resins, heat-treating salts,
SOL	Solvents			fly ash, plastic tank sludge, and scrap wood to a depth of 5
PSD	Pesticides			feet. The amount and characteristics of the wastes are
OOO	Other organic chemicals			unknown.
IOC	Inorganic chemicals			
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

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)

Niagara County Department of Health files, Niagara Falls, New York; NYSDEC, Division of Solid and Hazardous Wastes, Inactive Hazardous Waste Disposal Report.

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT		I. IDENTIFICATION	
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS		01 State NY	02 Site Number 932101
II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 <input checked="" type="checkbox"/> A. Groundwater Contamination 03 Population Potentially Affected <u>Unknown</u>	02 <input type="checkbox"/> Observed (date _____) 04 Narrative Description:	<input checked="" type="checkbox"/> Potential	<input type="checkbox"/> Alleged
Potential exists if waste is hazardous and leachate enters groundwater system. Well on site was sampled 1985 NCDOH; no contaminants detected. Groundwater is used for drinking water within 3 miles of the site.			
01 <input checked="" type="checkbox"/> B. Surface Water Contamination 03 Population Potentially Affected _____	02 <input type="checkbox"/> Observed (date _____) 04 Narrative Description:	<input checked="" type="checkbox"/> Potential	<input type="checkbox"/> Alleged
Potential exists if waste is hazardous and leachate enters Cayuga Creek, adjacent to site. Surface water is not currently used.			
01 <input type="checkbox"/> C. Contamination of Air 03 Population Potentially Affected <u>Unknown</u>	02 <input type="checkbox"/> Observed (date _____) 04 Narrative Description:	<input type="checkbox"/> Potential	<input type="checkbox"/> Alleged
01 <input type="checkbox"/> D. Fire/Explosive Conditions 03 Population Potentially Affected <u>Unknown</u>	02 <input type="checkbox"/> Observed (date _____) 04 Narrative Description:	<input type="checkbox"/> Potential	<input type="checkbox"/> Alleged
01 <input type="checkbox"/> E. Direct Contact 03 Population Potentially Affected <u>Unknown</u>	02 <input type="checkbox"/> Observed (date _____) 04 Narrative Description:	<input type="checkbox"/> Potential	<input type="checkbox"/> Alleged
01 <input checked="" type="checkbox"/> F. Contamination of Soil 03 Area Potentially Affected <u>~2 acres</u>	02 <input type="checkbox"/> Observed (date _____) 04 Narrative Description:	<input checked="" type="checkbox"/> Potential	<input type="checkbox"/> Alleged
Potential exists; fill material is in direct contact with soil.			
01 <input checked="" type="checkbox"/> G. Drinking Water Contamination 03 Population Potentially Affected <u>Unknown</u>	02 <input type="checkbox"/> Observed (date _____) 04 Narrative Description:	<input checked="" type="checkbox"/> Potential	<input type="checkbox"/> Alleged
Potential exists as groundwater is used as a source of drinking water on the Tuscarora Indian Reservation.			
01 <input type="checkbox"/> H. Worker Exposure/Injury 03 Workers Potentially Affected _____	02 <input type="checkbox"/> Observed (date _____) 04 Narrative Description:	<input type="checkbox"/> Potential	<input type="checkbox"/> Alleged
None reported; fill material is covered with soil and vegetation.			
01 <input type="checkbox"/> I. Population Exposure/Injury 03 Population Potentially Affected _____	02 <input type="checkbox"/> Observed (date _____) 04 Narrative Description:	<input type="checkbox"/> Potential	<input type="checkbox"/> Alleged
None reported; fill material is covered with soil and vegetation.			

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT		I. IDENTIFICATION	
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS		01 State NY	02 Site Number 932101

II. HAZARDOUS CONDITIONS AND INCIDENTS (Cont.)			
01 <input type="checkbox"/> J. Damage to Flora 04 Narrative Description: None reported; waste is covered with soil and vegetation.	02 <input type="checkbox"/> Observed (date _____)	<input type="checkbox"/> Potential	<input type="checkbox"/> Alleged
01 <input type="checkbox"/> K. Damage to Fauna 04 Narrative Description: None reported; waste is covered with soil and vegetation.	02 <input type="checkbox"/> Observed (date _____)	<input type="checkbox"/> Potential	<input type="checkbox"/> Alleged
01 <input checked="" type="checkbox"/> L. Contamination of Food Chain 04 Narrative Description: Potential exists if waste is hazardous and migrates from soil or water to flow in fruit orchard, corn field, vegetable garden. Well on site is used for irrigation.	02 <input type="checkbox"/> Observed (date _____)	<input checked="" type="checkbox"/> Potential	<input type="checkbox"/> Alleged
01 <input checked="" type="checkbox"/> M. Unstable Containment of Wastes (spills/ runoff/standing liquids, leaking drums) 03 Population Potentially Affected: _____ 04 Narrative Description: Alleged waste is covered by soil and vegetation, waste used for fill material.	02 <input type="checkbox"/> Observed (date _____)	<input type="checkbox"/> Potential	<input checked="" type="checkbox"/> Alleged
01 <input type="checkbox"/> N. Damage to Off-site Property 04 Narrative Description: None reported.	02 <input type="checkbox"/> Observed (date _____)	<input type="checkbox"/> Potential	<input type="checkbox"/> Alleged
01 <input type="checkbox"/> O. Contamination of Sewers, Storm Drains, WWTPs 04 Narrative Description: None reported. No storm sewers are located near site.	02 <input type="checkbox"/> Observed (date _____)	<input type="checkbox"/> Potential	<input type="checkbox"/> Alleged
01 <input type="checkbox"/> P. Illegal/Unauthorized Dumping 04 Narrative Description:	02 <input type="checkbox"/> Observed (date _____)	<input type="checkbox"/> Potential	<input type="checkbox"/> Alleged
05 Description of Any Other Known, Potential, or Alleged Hazards None identified.			
III. TOTAL POPULATION POTENTIALLY AFFECTED <u>413 within 1 mile, total number within 3 miles is unknown.</u>			
IV. COMMENTS			
V. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)			
NYSDEC Phase I investigation June 1989; Ecology and Environment Engineering, P.C. Site Inspection, May 2, 1991; Niagara County Health Department files, Niagara Falls, New York; Niagara County Department of Planning, Lockport, New York; Town of Wheatfield (NY) Water Division			

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT		I. IDENTIFICATION		
		01 State NY	02 Site Number 932101	
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION				
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 type="checkbox"/> I. Other (specify)				
<input 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 type="checkbox"/> A. Surface Impoundment	_____	_____	<input type="checkbox"/> A. Incineration	<input type="checkbox"/> Buildings On Site
<input type="checkbox"/> B. Piles	_____	_____	<input type="checkbox"/> B. Underground Injection	
<input type="checkbox"/> C. Drum, Aboveground	_____	_____	<input type="checkbox"/> C. Chemical/Physical	
<input type="checkbox"/> D. Tank, Aboveground	_____	_____	<input type="checkbox"/> D. Biological	
<input type="checkbox"/> E. Tank, Belowground	_____	_____	<input type="checkbox"/> E. Waste Oil Processing	
<input checked="" type="checkbox"/> F. Landfill	_____	_____	<input type="checkbox"/> F. Solvent Recovery	06 Area of Site
<input type="checkbox"/> G. Landfarm	_____	_____	<input type="checkbox"/> G. Other Recycling Recovery	_____ Acres
<input type="checkbox"/> H. Open Dump	_____	_____	<input type="checkbox"/> H. Other _____ (specify)	
<input type="checkbox"/> I. Other <u>Fill material</u> (specify)	Unknown	_____		
07 Comments				
It is not known if fill material contains any hazardous constituents.				
IV. CONTAINMENT				
01 Containment of Wastes (check one)				
<input type="checkbox"/> A. Adequate, Secure <input type="checkbox"/> B. Moderate <input checked="" type="checkbox"/> C. Inadequate, Poor <input type="checkbox"/> D. Insecure, Unsound, Dangerous				
02 Description of Drums, Diking, Liners, Barriers, etc.				
Waste was used as fill material, placed on land surface, and covered.				
V. ACCESSIBILITY				
01 Waste Easily Accessible <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
02 Comments				
Waste covered by soil and vegetation but cover thickness is unknown.				
VI. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)				
Niagara County Department of Health files, Niagara Falls, New York; Ecology and Environment Engineering, P.C. Site Inspection, May 2, 1991; NYSDEC Engineering Investigation Phase I, June 1989.				

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT						I. IDENTIFICATION																			
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA						01 State NY	02 Site Number 932101																		
II. DRINKING WATER SUPPLY																									
01 Type of Drinking Supply (check as applicable)			02 Status			03 Distance to Site																			
<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;">Surface</td> <td style="width: 33%;">Well</td> </tr> <tr> <td>Community</td> <td>A. <input checked="" type="checkbox"/></td> <td>B. <input type="checkbox"/></td> </tr> <tr> <td>Non-community</td> <td>C. <input checked="" type="checkbox"/></td> <td>D. <input checked="" type="checkbox"/></td> </tr> </table>				Surface	Well	Community	A. <input checked="" type="checkbox"/>	B. <input type="checkbox"/>	Non-community	C. <input checked="" type="checkbox"/>	D. <input checked="" type="checkbox"/>	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Endangered</td> <td style="width: 33%;">Affected</td> <td style="width: 33%;">Monitored</td> </tr> <tr> <td>A. <input type="checkbox"/></td> <td>B. <input type="checkbox"/></td> <td>C. <input checked="" type="checkbox"/></td> </tr> <tr> <td>D. <input type="checkbox"/></td> <td>E. <input type="checkbox"/></td> <td>F. <input checked="" type="checkbox"/></td> </tr> </table>			Endangered	Affected	Monitored	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input checked="" type="checkbox"/>	D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input checked="" type="checkbox"/>	A. <u>5.5</u> (mi) B. <u>5.5/~3.0</u> (mi)	
	Surface	Well																							
Community	A. <input checked="" type="checkbox"/>	B. <input type="checkbox"/>																							
Non-community	C. <input checked="" type="checkbox"/>	D. <input checked="" type="checkbox"/>																							
Endangered	Affected	Monitored																							
A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input checked="" type="checkbox"/>																							
D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input checked="" type="checkbox"/>																							
III. GROUNDWATER																									
01 Groundwater Use in Vicinity (check one)																									
<table style="width: 100%; border: none;"> <tr> <td style="width: 25%;"><input type="checkbox"/> A. Only Source for Drinking</td> <td style="width: 25%;"><input checked="" type="checkbox"/> B. Drinking (other sources available) Commercial, Industrial, Irrigation (no other water sources available)</td> <td style="width: 25%;"><input type="checkbox"/> C. Commercial, Industrial, Irrigation (limited other sources available)</td> <td style="width: 25%;"><input type="checkbox"/> D. Not Used, Unusable</td> </tr> </table>								<input type="checkbox"/> A. Only Source for Drinking	<input checked="" type="checkbox"/> B. Drinking (other sources available) Commercial, Industrial, Irrigation (no other water sources available)	<input type="checkbox"/> C. Commercial, Industrial, Irrigation (limited other sources available)	<input type="checkbox"/> D. Not Used, Unusable														
<input type="checkbox"/> A. Only Source for Drinking	<input checked="" type="checkbox"/> B. Drinking (other sources available) Commercial, Industrial, Irrigation (no other water sources available)	<input type="checkbox"/> C. Commercial, Industrial, Irrigation (limited other sources available)	<input type="checkbox"/> D. Not Used, Unusable																						
02 Population Served by Groundwater <u>Unknown</u>				03 Distance to Nearest Drinking Water Well <u>~3</u> (mi)																					
04 Depth to Groundwater <u>6</u> (ft)	05 Direction of Groundwater Flow <u>Southwest</u>	06 Depth to Aquifer of Concern <u>13</u> (ft)	07 Potential Yield of Aquifer <u>Unknown</u> (gpd)	08 Sole Source Aquifer <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown																					
09 Description of Wells (including usage, depth, and location relative to population and buildings)																									
One well on site used for irrigation of garden and fruit trees. Wells within 3 miles of site are used for irrigation purposes only.																									
10 Recharge Area <input checked="" type="checkbox"/> Yes Comments: Unconsolidated deposits. Aquifer is recharged with precipitation <input type="checkbox"/> No				11 Discharge Area <input checked="" type="checkbox"/> Yes Comments: Some discharge may occur into Cayuga Creek <input type="checkbox"/> No																					
IV. SURFACE WATER																									
01 Surface Water (check one)																									
<table style="width: 100%; border: none;"> <tr> <td style="width: 25%;"><input type="checkbox"/> A. Reservoir, Recreation, Drinking Water Source</td> <td style="width: 25%;"><input type="checkbox"/> B. Irrigation, Economically Important Resources</td> <td style="width: 25%;"><input type="checkbox"/> C. Commercial, Industrial</td> <td style="width: 25%;"><input checked="" type="checkbox"/> D. Not Currently Used</td> </tr> </table>								<input type="checkbox"/> A. Reservoir, Recreation, Drinking Water Source	<input type="checkbox"/> B. Irrigation, Economically Important Resources	<input type="checkbox"/> C. Commercial, Industrial	<input checked="" type="checkbox"/> D. Not Currently Used														
<input type="checkbox"/> A. Reservoir, Recreation, Drinking Water Source	<input type="checkbox"/> B. Irrigation, Economically Important Resources	<input type="checkbox"/> C. Commercial, Industrial	<input checked="" type="checkbox"/> D. Not Currently Used																						
02 Affected/Potentially Affected Bodies of Water																									
Name:						Affected	Distance to Site																		
<u>Cayuga Creek</u>						<input type="checkbox"/>	<u>0</u> (mi)																		
<u>Niagara River</u>						<input type="checkbox"/>	<u>3.5</u> (mi)																		
_____						<input type="checkbox"/>	_____ (mi)																		
V. DEMOGRAPHIC AND PROPERTY INFORMATION																									
01 Total Population Within			One (1) Mile of Site		Two (2) Miles of Site		Three (3) Miles of Site																		
A. <u>413</u> No. of Persons			B. <u>5,072</u> No. of Persons		C. <u>21,584</u> No. of Persons		02 Distance to Nearest Population <u>0.1</u> (mi)																		
03 Number of Buildings Within Two (2) Miles of Site <u>1,181</u>						04 Distance to Nearest Off-Site Building <u>0.1</u> (mi)																			
05 Population Within Vicinity of Site (provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)																									
Site located in semi-rural area. Niagara Falls Air Force Base adjacent to site. City of Niagara Falls approximately 1.5 miles to the southwest of site.																									

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA		I. IDENTIFICATION <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> 01 State NY </td> <td style="width: 50%; vertical-align: top;"> 02 Site Number 932101 </td> </tr> </table>		01 State NY	02 Site Number 932101
01 State NY	02 Site Number 932101				
VI. ENVIRONMENTAL INFORMATION					
01 Permeability of Unsaturated Zone (check one) <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> A. Impermeable (less than 10^{-6} cm/sec) <input checked="" type="checkbox"/> B. Relatively Impermeable (10^{-4} - 10^{-6} cm/sec) <input type="checkbox"/> C. Relatively Permeable (10^{-2} - 10^{-4} cm/sec) <input type="checkbox"/> D. Very Permeable (greater than 10^{-2} cm/sec) </div>					
02 Permeability of Bedrock (check one) <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> A. Impermeable (less than 10^{-6} cm/sec) <input type="checkbox"/> B. Relatively Impermeable (10^{-4} - 10^{-6} cm/sec) <input checked="" type="checkbox"/> C. Relatively Permeable (10^{-2} - 10^{-4} cm/sec) <input type="checkbox"/> D. Very Permeable (greater than 10^{-2} cm/sec) </div>					
03 Depth to Bedrock <u>Unknown</u> (ft)	04 Depth of Contaminated Soil Zone <u>Unknown</u> (ft)	05 Soil pH <u>5.6-7.6</u>			
06 Net Precipitation <u>4</u> (in)	07 One Year 24-Hour Rainfall <u>2.5</u> (in)	08 Slope Site Slope Direction of Site Slope Terrain Average Slope <u>2</u> % <u>NW</u> <u>2</u> %			
09 Flood Potential Site is in <u>100</u> Year Floodplain	10 <input type="checkbox"/> Site is on Barrier Island, Coastal High Hazard Area, Riverine Floodway				
11 Distance to Wetlands (5 acre minimum) ESTUARINE OTHER A. <u>NA</u> (mi) B. <u>2.25</u> (mi)		12 Distance to Critical Habitat (of endangered species) <u>NA</u> (mi) Endangered Species: _____			
13 Land Use in Vicinity Distance to: <div style="display: flex; justify-content: space-between;"> <div style="width: 24%;"> COMMERCIAL/INDUSTRIAL A. <u>.1</u> (mi) </div> <div style="width: 24%;"> RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES B. <u>0</u> (mi) </div> <div style="width: 24%;"> AGRICULTURAL LANDS PRIME AG LAND C. <u>0</u> (mi) </div> <div style="width: 24%;"> AG LAND D. <u>0</u> (mi) </div> </div>					
14 Description of Site in Relation to Surrounding Topography This site is located in a flat area. The property is bounded on the west by Walmore Road and Cayuga Creek and a Conrail railroad track embankment to the northeast. Rainwater runoff is expected to enter Cayuga Creek, which flows southwest to Niagara River.					
VII. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)					
USGS 7.5 Minute Topographic Maps, Ransomville and Tonawanda West Quads FEMA Flood Insurance Maps Soil Survey of Niagara County, New York Niagara County Department of Health, Niagara Falls, New York Town of Wheatfield Water Department, Wheatfield, New York NYSDEC Phase I Investigation, June 1989					

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION		I. IDENTIFICATION	
		01 State	02 Site Number
		NY	932101
II. SAMPLES TAKEN			
Sample Type	01 Number of Samples Taken	02 Samples Sent To	03 Estimated Date Results Available
Groundwater		No samples taken during site inspection.	
Surface Water			
Waste			
Air			
Runoff			
Spill			
Soil			
Vegetation			
Other			
III. FIELD MEASUREMENTS TAKEN			
01 Type	02 Comments		
Air	Performed with HNu photoionization detector during site inspection. No readings (all types) above background noted.		
Radiation	Performed with Radiation Alert Monitor 4EC during site inspection. No readings above background noted.		
IV. PHOTOGRAPHS AND MAPS			
01 Type	<input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> Aerial	02 In Custody of <u>Ecology and Environment Engineering, P.C.; Niagara County EMC</u> (name of organization or individual)	
03 Maps	04 Location of Maps		
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>NYSDEC, Region 9 and Ecology and Environment Engineering, P.C. Buffalo</u>		
V. OTHER FIELD DATA COLLECTED (provide narrative description of sampling activities)			
VI. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)			
Niagara County Department of Health Niagara County Environmental Management Council NYSDEC Phase I Investigation Report, June 1989 Ecology and Environment Engineering, P.C., Site Inspection, May 2, 1991			

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT				I. IDENTIFICATION			
PART 7 - OWNER INFORMATION				01 State NY		02 Site Number 932101	
II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 Name T. Dean Johnson		02 D&B Number		08 Name		09 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.) 4425 Miller Road		04 SIC Code		10 Street Address (P.O. Box, RFD #, etc.)		11 SIC Code	
05 City Niagara Falls		06 State NY		07 Zip Code 14304		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		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		05 City		06 State	
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		05 City		06 State	
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		05 City		06 State	
V. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)							

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8 - OPERATOR INFORMATION				I. IDENTIFICATION	
				01 State NY	02 Site Number 932101
II. CURRENT OPERATOR (provide if different from owner)				OPERATOR'S PARENT COMPANY (if applicable)	
01 Name		02 D&B Number		10 Name	
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code		11 D&B Number	
05 City		06 State		12 Street Address (P.O. Box, RFD #, etc.)	
07 Zip Code		13 SIC Code		14 City	
08 Years of Operation		09 Name of Owner		15 State	
16 Zip Code					
III. PREVIOUS OPERATOR(S) (list most recent first; provide if different from owner)				PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)	
01 Name		02 D&B Number		10 Name	
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code		11 D&B Number	
05 City		06 State		12 Street Address (P.O. Box, RFD #, etc.)	
07 Zip Code		13 SIC Code		14 City	
08 Years of Operation		09 Name of Owner During this Period		15 State	
16 Zip Code					
01 Name		02 D&B Number		10 Name	
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code		11 D&B Number	
05 City		06 State		12 Street Address (P.O. Box, RFD #, etc.)	
07 Zip Code		13 SIC Code		14 City	
08 Years of Operation		09 Name of Owner During this Period		15 State	
16 Zip Code					
01 Name		02 D&B Number		10 Name	
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code		11 D&B Number	
05 City		06 State		12 Street Address (P.O. Box, RFD #, etc.)	
07 Zip Code		13 SIC Code		14 City	
08 Years of Operation		09 Name of Owner During this Period		15 State	
16 Zip Code					
IV. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)					

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT				I. IDENTIFICATION	
PART 9 - GENERATOR/TRANSPORTER INFORMATION				01 State NY	02 Site Number 932101
II. ON-SITE GENERATOR					
01 Name		02 D&B Number			
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code			
05 City	06 State	07 Zip Code			
III. OFF-SITE GENERATOR(S)					
01 Name		02 D&B Number		01 Name	
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code		02 D&B Number	
05 City		06 State		07 Zip Code	
01 Name		02 D&B Number		01 Name	
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code		02 D&B Number	
05 City		06 State		07 Zip Code	
01 Name		02 D&B Number		01 Name	
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code		02 D&B Number	
05 City		06 State		07 Zip Code	
IV. TRANSPORTER(S)					
01 Name Haseley Trucking Co.		02 D&B Number		01 Name	
03 Street Address (P.O. Box, RFD #, etc.) 10315 Lockport Road		04 SIC Code		02 D&B Number	
05 City Wheatfield		06 State NY		07 Zip Code	
01 Name		02 D&B Number		01 Name	
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code		02 D&B Number	
05 City		06 State		07 Zip Code	
V. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)					

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	I. IDENTIFICATION	
	01 State NY	02 Site Number 932101
II. PAST RESPONSE ACTIVITIES		
01 <input type="checkbox"/> A. Water Supply Closed 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> B. Temporary Water Supply Provided 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> C. Permanent Water Supply Provided 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> D. Spilled Material Removed 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> E. Contaminated Soil Removed 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> F. Waste Repackaged 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> G. Waste Disposed Elsewhere 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> H. On-Site Burial 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> I. <u>In Situ</u> Chemical Treatment 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> J. <u>In Situ</u> Biological Treatment 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> K. <u>In Situ</u> Physical Treatment 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> L. Encapsulation 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> M. Emergency Waste Treatment 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> N. Cutoff Walls 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> O. Emergency Diking/Surface Water Diversion 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> P. Cutoff Trenches/Sump 04 Description:	02 Date _____	03 Agency _____

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	I. IDENTIFICATION	
	01 State NY	02 Site Number 932101
II. PAST RESPONSE ACTIVITIES (Cont.)		
01 <input type="checkbox"/> Q. Subsurface Cutoff Wall 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> R. Barrier Walls Constructed 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> S. Capping/Covering 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> T. Bulk Tankage Repaired 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> U. Grout Curtain Constructed 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> V. Bottom Sealed 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> W. Gas Control 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> X. Fire Control 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> Y. Leachate Treatment 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> Z. Area Evacuated 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> 1. Access to Site Restricted 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> 2. Population Relocated 04 Description:	02 Date _____	03 Agency _____
01 <input type="checkbox"/> 3. Other Remedial Activities 04 Description:	02 Date _____	03 Agency _____
III. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)		

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION	I. IDENTIFICATION	
	01 State	02 Site Number
	NY	932101
II. ENFORCEMENT INFORMATION		
01 Past Regulatory/Enforcement Action <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
02 Description of Federal, State, Local Regulatory/Enforcement Action		
<div style="height: 600px;"></div>		
III. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)		
NYSDEC Division of Solid and Hazardous Waste Inactive Hazardous Waste Site Registry files, Region 9.		

APPENDIX C

INTERVIEW DOCUMENTATION FORMS

An unsigned Document of Interview indicates that the person interviewed did not return the form as requested by the interviewer.

INTERVIEW ACKNOWLEDGMENT FORM

SITE NAME: Walmore Road-Johnson Property Site

PERSON
CONTACTED: Mark Haseley

AFFILIATION: Haseley Trucking Company

ADDRESS: 10315 Lockport Road, Wheatfield, New York

TYPE OF CONTACT: Telephone interview

I.D. NUMBER: 932101

DATE: May 15, 1991

PHONE NUMBER: (716) 297-1550

CONTACT
PERSON(S): S. Glinski

INTERVIEW SUMMARY:

5/15/91 - Mark Haseley Trucking Company manager could not recall the contents of his company's fill transported to the Johnson property. He will conduct file search to find documentation, if any. He remembers many haulers bringing clean fill to the site.

5/17/91 - Mr. Haseley's file search has turned up no record of what was hauled to the Johnson property for the time period in question.

ACKNOWLEDGMENT

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to Ecology and Environment, Inc. interviewer(s) (as revised below, if necessary).

Revisions: (please write in any corrections needed to the above transcript)

Signature _____ Date _____