

932085A

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

PRELIMINARY SITE ASSESSMENT Volume 2: Appendices

64th Street-North Site
Site Number 932085A
City of Niagara Falls, Niagara County

September 1995



Prepared for:

**New York State Department
of Environmental Conservation**

50 Wolf Road, Albany, New York 12233

Michael D. Zagata, Commissioner

Division of Hazardous Waste Remediation

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

Prepared by:

Ecology and Environment Engineering, P.C.

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ecology and environment engineering, p.c.

**BUFFALO CORPORATE CENTER 368 Pleasantview Drive, Lancaster, New York 14086
Tel: 716/684-8060, Fax: 716/684-0844**

APPENDIX A

EPA 2070-13 SITE INSPECTION FORM

Page 1 of 15

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 State

NY

02 Site Number

932085A

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 Unknown

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

Tons Unknown
 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			Wastes include domestic and commercial refuse and
OLW	Oily waste			C&D debris. Possibly also incinerator ash and
SOL	Solvents			other industrial wastes.
PSD	Pesticides			
OOC	Other organic chemicals			
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)

Phase I Investigation

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS	I. IDENTIFICATION	
	01 State NY	02 Site Number 932085A

II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 ☒ A. Groundwater Contamination 03 Population Potentially Affected _____	02 ☐ Observed (date _____) 04 Narrative Description:	☒ Potential ☐ Alleged	
Groundwater is not used for drinking water within 3 miles of the site.			
01 ☒ B. Surface Water Contamination 03 Population Potentially Affected _____	02 ☐ Observed (date _____) 04 Narrative Description:	☒ Potential ☐ Alleged	
Site is a wetland.			
01 ☒ C. Contamination of Air 03 Population Potentially Affected <u>5,902 residents within 1 mile plus</u>	02 ☐ Observed (date _____) 04 Narrative Description:	☒ Potential ☐ Alleged	
<u>patrons of nearby businesses, motels, and shopping malls.</u> Wastes are not covered.			
01 ☐ D. Fire/Explosive Conditions 03 Population Potentially Affected _____	02 ☐ Observed (date _____) 04 Narrative Description:	☐ Potential ☐ Alleged	
No incidents on record of fires resulting from spontaneous ignition.			
01 ☒ E. Direct Contact 03 Population Potentially Affected <u>5,902 residents plus patrons of</u>	02 ☐ Observed (date _____) 04 Narrative Description:	☒ Potential ☐ Alleged	
<u>businesses</u> Wastes are not covered. Public use of site was observed.			
01 ☒ F. Contamination of Soil 03 Area Potentially Affected <u>40 acres</u>	02 ☐ Observed (date _____) 04 Narrative Description:	☒ Potential ☐ Alleged	
Hazardous constituents detected in site soils.			
01 ☐ G. Drinking Water Contamination 03 Population Potentially Affected _____	02 ☐ Observed (date _____) 04 Narrative Description:	☐ Potential ☐ Alleged	
None documented or expected due to route and distance of surface water runoff to intakes on Niagara River.			
01 ☒ H. Worker Exposure/Injury 03 Workers Potentially Affected _____	02 ☐ Observed (date _____) 04 Narrative Description:	☒ Potential ☐ Alleged	
None documented. An unknown number of workers for businesses located within the site boundary may be exposed to site contaminants.			
01 ☒ I. Population Exposure/Injury 03 Population Potentially Affected <u>5,902 within one mile of site</u>	02 ☐ Observed (date _____) 04 Narrative Description:	☒ Potential ☐ Alleged	

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS	I. IDENTIFICATION	
	01 State NY	02 Site Number 932085A

II. HAZARDOUS CONDITIONS AND INCIDENTS (Cont.)			
01 ☐ J. Damage to Flora 04 Narrative Description: None observed.	02 ☐ Observed (date _____)	☐ Potential ☐ Alleged	
01 ☐ K. Damage to Fauna 04 Narrative Description: None observed, none on record.	02 ☐ Observed (date _____)	☐ Potential ☐ Alleged	
01 ☐ L. Contamination of Food Chain 04 Narrative Description: None on record. Not likely since no agricultural areas within 2 miles of site, and no surface waters directly with waters supporting fish are present on site.	02 ☐ Observed (date _____)	☐ Potential ☐ Alleged	
01 ☒ M. Unstable Containment of Wastes (spills/ runoff/standing liquids, leaking drums) 03 Population Potentially Affected: <u>Unknown</u> 04 Narrative Description:	02 ☐ Observed (date _____)	☒ Potential ☐ Alleged	
01 ☐ N. Damage to Off-site Property 04 Narrative Description: None observed, none on record.	02 ☐ Observed (date _____)	☐ Potential ☐ Alleged	
01 ☒ O. Contamination of Sewers, Storm Drains, WWTPs 04 Narrative Description:	02 ☐ Observed (date _____)	☒ Potential ☐ Alleged	
01 ☒ P. Illegal/Unauthorized Dumping 04 Narrative Description:	02 ☐ Observed (date _____)	☒ Potential ☐ Alleged	
05 Description of Any Other Known, Potential, or Alleged Hazards			
III. TOTAL POPULATION POTENTIALLY AFFECTED <u>~5,902</u>			
IV. COMMENTS			
V. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)			
Phase I investigation.			

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 4 - PERMIT AND DESCRIPTIVE INFORMATION		I. IDENTIFICATION <table style="width: 100%;"> <tr> <td style="width: 50%;">01 State NY</td> <td style="width: 50%;">02 Site Number 932085A</td> </tr> </table>			01 State NY	02 Site Number 932085A
01 State NY	02 Site Number 932085A					
II. PERMIT INFORMATION						
01 Type of Permit Issued (check all that apply)	02 Permit Number	03 Date Issued	04 Expiration Date	05 Comments		
☐ A. NPDES						
☐ B. UIC						
☐ C. AIR						
☐ D. RCRA						
☐ E. RCRA Interim Status						
☐ F. SPCC Plan						
☐ G. State (specify)						
☐ H. Local (specify)						
☐ I. Other (specify)						
☐ 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		
☐ A. Surface Impoundment ☐ B. Piles ☐ C. Drum, Aboveground ☐ D. Tank, Aboveground ☐ E. Tank, Belowground ☒ F. Landfill ☐ G. Landfarm ☒ H. Open Dump ☐ I. Other _____ (specify)	_____ _____ _____ _____ <u>Unknown</u> _____ <u>Unknown</u> _____	_____ _____ _____ _____ _____ _____ _____	☐ A. Incineration ☐ B. Underground Injection ☐ C. Chemical/Physical ☐ D. Biological ☐ E. Waste Oil Processing ☐ F. Solvent Recovery ☐ G. Other Recycling Recovery ☐ H. Other _____ (specify)	☒ Buildings On Site Several businesses and trailers 06 Area of Site <u>40</u> Acres		
07 Comments						
IV. CONTAINMENT						
01 Containment of Wastes (check one)						
☐ A. Adequate, Secure ☐ B. Moderate ☒ C. Inadequate, Poor ☐ D. Insecure, Unsound, Dangerous						
02 Description of Drums, Diking, Liners, Barriers, etc.						
None						
V. ACCESSIBILITY						
01 Waste Easily Accessible ☒ Yes ☐ No						
02 Comments						
Wastes are present at or near ground surface.						
VI. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)						
Phase I investigation.						

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT						I. IDENTIFICATION																			
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA						01 State NY	02 Site Number 932085A																		
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%; text-align: center;">Surface</td> <td style="width: 33%; text-align: center;">Well</td> </tr> <tr> <td>Community</td> <td style="text-align: center;">A. ☒</td> <td style="text-align: center;">B. ☐</td> </tr> <tr> <td>Non-community</td> <td style="text-align: center;">C. ☐</td> <td style="text-align: center;">D. ☐</td> </tr> </table>				Surface	Well	Community	A. ☒	B. ☐	Non-community	C. ☐	D. ☐	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; text-align: center;">Endangered</td> <td style="width: 33%; text-align: center;">Affected</td> <td style="width: 33%; text-align: center;">Monitored</td> </tr> <tr> <td style="text-align: center;">A. ☐</td> <td style="text-align: center;">B. ☐</td> <td style="text-align: center;">C. ☐</td> </tr> <tr> <td style="text-align: center;">D. ☐</td> <td style="text-align: center;">E. ☐</td> <td style="text-align: center;">F. ☐</td> </tr> </table>			Endangered	Affected	Monitored	A. ☐	B. ☐	C. ☐	D. ☐	E. ☐	F. ☐	A <u>>3</u> (mi) B _____ (mi)	
	Surface	Well																							
Community	A. ☒	B. ☐																							
Non-community	C. ☐	D. ☐																							
Endangered	Affected	Monitored																							
A. ☐	B. ☐	C. ☐																							
D. ☐	E. ☐	F. ☐																							
III. GROUNDWATER																									
01 Groundwater Use in Vicinity (check one)																									
<table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">☐ A. Only Source for Drinking</td> <td style="width: 25%;">☐ B. Drinking (other sources available) Commercial, Industrial, Irrigation (no other water sources available)</td> <td style="width: 25%;">☒ C. Commercial, Industrial, Irrigation (limited other sources available)</td> <td style="width: 25%;">☐ D. Not Used, Unusable</td> </tr> </table>								☐ A. Only Source for Drinking	☐ B. Drinking (other sources available) Commercial, Industrial, Irrigation (no other water sources available)	☒ C. Commercial, Industrial, Irrigation (limited other sources available)	☐ D. Not Used, Unusable														
☐ A. Only Source for Drinking	☐ B. Drinking (other sources available) Commercial, Industrial, Irrigation (no other water sources available)	☒ C. Commercial, Industrial, Irrigation (limited other sources available)	☐ D. Not Used, Unusable																						
02 Population Served by Groundwater <u>0</u>				03 Distance to Nearest Drinking Water Well <u>>3</u> (mi)																					
04 Depth to Groundwater <u>Perched 5-10</u> (ft)	05 Direction of Groundwater Flow <u>Assumed south</u>	06 Depth to Aquifer of Concern <u>~30</u> (ft)	07 Potential Yield of Aquifer <u>Unknown</u> (gpd)	08 Sole Source Aquifer ☐ Yes ☐ No ☐ Unknown																					
09 Description of Wells (including usage, depth, and location relative to population and buildings)																									
Olin Corporation has industrial well on Buffalo Avenue, 2 miles southwest of site.																									
10 Recharge Area ☐ Yes Comments: ☐ No				11 Discharge Area ☐ Yes Comments: ☐ No																					
IV. SURFACE WATER																									
01 Surface Water (check one)																									
<table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">☒ A. Reservoir, Recreation, Drinking Water Source</td> <td style="width: 25%;">☐ B. Irrigation, Economically Important Resources</td> <td style="width: 25%;">☐ C. Commercial, Industrial</td> <td style="width: 25%;">☐ D. Not Currently Used</td> </tr> </table>								☒ A. Reservoir, Recreation, Drinking Water Source	☐ B. Irrigation, Economically Important Resources	☐ C. Commercial, Industrial	☐ D. Not Currently Used														
☒ A. Reservoir, Recreation, Drinking Water Source	☐ B. Irrigation, Economically Important Resources	☐ C. Commercial, Industrial	☐ D. Not Currently Used																						
02 Affected/Potentially Affected Bodies of Water																									
Name:						Affected	Distance to Site																		
<u>Niagara River</u>						☐	<u>1</u> (mi)																		
_____						☐	_____ (mi)																		
_____						☐	_____ (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		02 Distance to Nearest Population																	
A. <u>5,902</u> No. of Persons		B. <u>36756</u> No. of Persons		C. <u>75,452</u> No. of Persons		_____ <u><0.25</u> (mi)																			
03 Number of Buildings Within Two (2) Miles of Site <u>9,673</u>						04 Distance to Nearest Off-Site Building <u><0.25</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)																									
Trailer park on site and north of site. Other densely populated residential areas located approximately 0.5 mile south. Land use along Niagara Falls Blvd. is primarily commercial. A shopping mall is located ~3,000 feet to the northwest.																									

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 932085A </td> </tr> </table>		01 State NY	02 Site Number 932085A							
01 State NY	02 Site Number 932085A											
VI. ENVIRONMENTAL INFORMATION												
01 Permeability of Unsaturated Zone (check one) ☐ A. Impermeable (less than 10⁻⁶ cm/sec) ☐ B. Relatively Impermeable (10⁻⁴ - 10⁻⁶ cm/sec) ☐ C. Relatively Permeable (10⁻² - 10⁻⁴ cm/sec) ☐ D. Very Permeable (greater than 10⁻² cm/sec)												
02 Permeability of Bedrock (check one) ☐ A. Impermeable (less than 10⁻⁶ cm/sec) ☐ B. Relatively Impermeable (10⁻⁴ - 10⁻⁶ cm/sec) ☐ C. Relatively Permeable (10⁻² - 10⁻⁴ cm/sec) ☐ D. Very Permeable (greater than 10⁻² cm/sec)												
03 Depth to Bedrock <u>20-30</u> (ft)	04 Depth of Contaminated Soil Zone <u>est. 2-5</u> (ft)		05 Soil pH <u>Unknown</u>									
06 Net Precipitation <u>9</u> (in)	07 One Year 24-Hour Rainfall <u>2.1</u> (in)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">08 Slope</td> <td style="width: 25%;">Direction of Site Slope</td> <td style="width: 25%;">Terrain Average Slope</td> </tr> <tr> <td>Site Slope</td> <td></td> <td></td> </tr> <tr> <td><u>0-2</u> %</td> <td><u>South</u></td> <td><u>0-2</u> %</td> </tr> </table>		08 Slope	Direction of Site Slope	Terrain Average Slope	Site Slope			<u>0-2</u> %	<u>South</u>	<u>0-2</u> %
08 Slope	Direction of Site Slope	Terrain Average Slope										
Site Slope												
<u>0-2</u> %	<u>South</u>	<u>0-2</u> %										
09 Flood Potential Site is in <u>> 500</u> Year Floodplain	10 ☐ Site is on Barrier Island, Coastal High Hazard Area, Riverine Floodway No											
11 Distance to Wetlands (5 acre minimum) ESTUARINE OTHER A. <u>0</u> (mi) B. <u>0</u> (mi)		12 Distance to Critical Habitat (of endangered species) <u>> 3</u> (mi) Endangered Species: _____										
13 Land Use in Vicinity Distance to: <table style="width: 100%;"> <tr> <td style="width: 25%;">COMMERCIAL/INDUSTRIAL</td> <td style="width: 25%;">RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES</td> <td style="width: 25%;">PRIME AG LAND</td> <td style="width: 25%;">AGRICULTURAL LANDS AG LAND</td> </tr> <tr> <td>A. <u>0</u> (mi)</td> <td>B. <u>> 1</u> (mi)</td> <td>C. <u>> 2</u> (mi)</td> <td>D. <u>> 2</u> (mi)</td> </tr> </table>				COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	PRIME AG LAND	AGRICULTURAL LANDS AG LAND	A. <u>0</u> (mi)	B. <u>> 1</u> (mi)	C. <u>> 2</u> (mi)	D. <u>> 2</u> (mi)	
COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	PRIME AG LAND	AGRICULTURAL LANDS AG LAND									
A. <u>0</u> (mi)	B. <u>> 1</u> (mi)	C. <u>> 2</u> (mi)	D. <u>> 2</u> (mi)									
14 Description of Site in Relation to Surrounding Topography Natural topography in surrounding area is generally flat. Man-made topographic highs in the area include elevated highways and CECOS landfill.												
VII. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)												
Phase I investigation. Tonawanda West topographic map. NYSDEC site files.												

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION		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 932085A </td> </tr> </table>		01 State NY	02 Site Number 932085A
01 State NY	02 Site Number 932085A				
II. SAMPLES TAKEN					
Sample Type	01 Number of Samples Taken	02 Samples Sent To	03 Estimated Date Results Available		
Groundwater					
Surface Water					
Waste					
Air					
Runoff					
Spill					
Soil					
Vegetation					
Other					
III. FIELD MEASUREMENTS TAKEN					
01 Type	02 Comments				
HNu	No readings detected in breathing zone above background levels.				
Minirad	No readings detected in breathing zone above background levels.				
IV. PHOTOGRAPHS AND MAPS					
01 Type ☒ Ground ☐ Aerial	02 In Custody of <u>Ecology and Environment Engineering, P.C.</u> (name of organization or individual)				
03 Maps ☒ Yes ☐ No	04 Location of Maps <u>E & E, Niagara Real Property, Niagara County Environmental Management Council</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)					

EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT				I. IDENTIFICATION			
PART 7 - OWNER INFORMATION				01 State NY		02 Site Number 932085A	
II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 Name Jack B. and Dorothy Johnson		02 D&B Number		08 Name		09 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.) P.O. Box 688		04 SIC Code		10 Street Address (P.O. Box, RFD #, etc.)		11 SIC Code	
05 City Niagara Falls		06 State NY		07 Zip Code 14302		12 City	
01 Name Niagara Mohawk		02 D&B Number		08 Name		09 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.) 300 Erie Blvd., West		04 SIC Code		10 Street Address (P.O. Box, RFD #, etc.)		11 SIC Code	
05 City Syracuse		06 State NY		07 Zip Code 13202		12 City	
01 Name See Attached		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	
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	
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	
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	
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	
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	
V. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)							
Niagara County Real Property Tax Office							

EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8 - OPERATOR INFORMATION				I. IDENTIFICATION	
				01 State NY	02 Site Number 932085A
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		08 Years of Operation		13 SIC Code	
09 Name of Owner During this Period		14 City		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		08 Years of Operation		13 SIC Code	
09 Name of Owner During this Period		14 City		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		08 Years of Operation		13 SIC Code	
09 Name of Owner During this Period		14 City		15 State	
				16 Zip Code	
IV. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)					

EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 9 - GENERATOR/TRANSPORTER INFORMATION				I. IDENTIFICATION			
				01 State NY		02 Site Number 932085A	
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		02 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code		03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code	
05 City		06 State 07 Zip Code		05 City		06 State 07 Zip Code	
01 Name		02 D&B Number		01 Name		02 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code		03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code	
05 City		06 State 07 Zip Code		05 City		06 State 07 Zip Code	
IV. TRANSPORTER(S)							
01 Name		02 D&B Number		01 Name		02 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code		03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code	
05 City		06 State 07 Zip Code		05 City		06 State 07 Zip Code	
01 Name		02 D&B Number		01 Name		02 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code		03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code	
05 City		06 State 07 Zip Code		05 City		06 State 07 Zip Code	
V. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)							

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	I. IDENTIFICATION	
	01 State NY	02 Site Number 932085A
II. PAST RESPONSE ACTIVITIES		
01 ☐ A. Water Supply Closed 04 Description:	02 Date _____	03 Agency _____
01 ☐ B. Temporary Water Supply Provided 04 Description:	02 Date _____	03 Agency _____
01 ☐ C. Permanent Water Supply Provided 04 Description:	02 Date _____	03 Agency _____
01 ☐ D. Spilled Material Removed 04 Description:	02 Date _____	03 Agency _____
01 ☐ E. Contaminated Soil Removed 04 Description:	02 Date _____	03 Agency _____
01 ☐ F. Waste Repackaged 04 Description:	02 Date _____	03 Agency _____
01 ☐ G. Waste Disposed Elsewhere 04 Description:	02 Date _____	03 Agency _____
01 ☐ H. On-Site Burial 04 Description:	02 Date _____	03 Agency _____
01 ☐ I. <u>In Situ</u> Chemical Treatment 04 Description:	02 Date _____	03 Agency _____
01 ☐ J. <u>In Situ</u> Biological Treatment 04 Description:	02 Date _____	03 Agency _____
01 ☐ K. <u>In Situ</u> Physical Treatment 04 Description:	02 Date _____	03 Agency _____
01 ☐ L. Encapsulation 04 Description:	02 Date _____	03 Agency _____
01 ☐ M. Emergency Waste Treatment 04 Description:	02 Date _____	03 Agency _____
01 ☐ N. Cutoff Walls 04 Description:	02 Date _____	03 Agency _____
01 ☐ O. Emergency Diking/Surface Water Diversion 04 Description:	02 Date _____	03 Agency _____
01 ☐ 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 932085A
II. PAST RESPONSE ACTIVITIES (Cont.)		
01 ☐ Q. Subsurface Cutoff Wall 04 Description:	02 Date _____	03 Agency _____
01 ☐ R. Barrier Walls Constructed 04 Description:	02 Date _____	03 Agency _____
01 ☐ S. Capping/Covering 04 Description:	02 Date _____	03 Agency _____
01 ☐ T. Bulk Tankage Repaired 04 Description:	02 Date _____	03 Agency _____
01 ☐ U. Grout Curtain Constructed 04 Description:	02 Date _____	03 Agency _____
01 ☐ V. Bottom Sealed 04 Description:	02 Date _____	03 Agency _____
01 ☐ W. Gas Control 04 Description:	02 Date _____	03 Agency _____
01 ☐ X. Fire Control 04 Description:	02 Date _____	03 Agency _____
01 ☐ Y. Leachate Treatment 04 Description:	02 Date _____	03 Agency _____
01 ☐ Z. Area Evacuated 04 Description:	02 Date _____	03 Agency _____
01 ☐ 1. Access to Site Restricted 04 Description:	02 Date _____	03 Agency _____
01 ☐ 2. Population Relocated 04 Description:	02 Date _____	03 Agency _____
01 ☐ 3. Other Remedial Activities 04 Description:	02 Date _____	03 Agency _____
III. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)		

EPA

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

01 State

NY

02 Site Number

932085A

II. ENFORCEMENT INFORMATION01 Past Regulatory/Enforcement Action ☐ Yes ☒ No

02 Description of Federal, State, Local Regulatory/Enforcement Action

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

EPA

Site Inspection Report (Attachment)

SITE PROPERTY OWNERS	
Section-Block-Lot Number	Site Owners
160.07-3-1-1	UREN Sound and Power Systems, Inc. 1120 Connecting Road Niagara Falls, New York 14304
160.07-3-6	Realty Development-West, Inc. 570 Delaware Avenue Buffalo, New York 14202
	Niagara Mohawk Power Corp. 300 Erie Boulevard West Syracuse, New York 13202
160.07-3-10	MAE, Inc. 4194 Lower River Road Lewiston, New York 14092
160.07-3-9 160.07-3-31 160.07-3-32 160.07-3-33	Richard W. and Christine F. Johnson P.O. Box 688 Niagara Falls, New York 14302
160.07-3-11	Frank A. Delia 535 Main Street East Aurora, New York 14052 and 6325 Cole Road Orchard Park, New York 14127
160.07-3-2	Joseph W. and Mary E. Orszutak 8417 West Rivershore Drive Niagara Falls, New York 14304
160.07-3-14 160.07-3-19 160.07-3-20 160.07-3-21	James A. Whitworth 4489 Lower River Road Lewiston, New York 14092
160.07-3-18	Jan R. and Barbara Krupa 491 82nd Street Niagara Falls, New York 14304
160.07-3-12 160.07-3-13	Lamnerts Cadillac Corp. 838 66th Street Niagara Falls, New York 14304
160.07-3-8 160.07-3-3.11 160.07-3-34 160.07-3-35 160.07-3-36 160.07-3-37	Jack B. and Dorothy Johnson P.O. Box 688 Niagara Falls, New York 14302
160.07-3-3	Melvin F. Tompkins 4829 Wilton Avenue Niagara Falls, New York 14304

APPENDIX B

**DATA USABILITY SUMMARY AND
DATA SUMMARY FORMS**

DATA USABILITY REVIEW

The data usability review for the 64th Street-North site consisted of two components:

- Checking chain-of-custody forms and analytical logs to confirm that samples were analyzed for the parameters requested on the chain-of-custody; and
- Reviewing the data to confirm that NYSDEC and laboratory quality control (QC) criteria were met.

Quality control criteria included: holding times, laboratory blank contamination, surrogate recoveries, internal standards area and retention times, matrix spike/matrix spike duplicate (MS/MSD) results, and instrument calibration (initial and continuing). Specific criteria were reviewed and problems noted for metals, such as laboratory method blanks, MS/MSDs, instrument calibration, and inductively coupled plasma (ICP) interference check samples.

Based on the review described above, a memorandum was generated to outline any problems affecting the usability of the data. This memorandum was submitted to NYSDEC under separate cover as part of the reduced data package. The general problems commented on included blank contamination and holding-time violation, but it did not constitute a full data validation effort.

Twenty-nine soil samples, three sediment samples, three surface water samples, and one trip blank were collected on December 1 through 3, 1993 and December 12, 1993 by Ecology and Environment, Inc., (E & E) at the 64th Street-North site for NYSDEC. The soil, sediment, and surface water samples were analyzed for Target Compound List (TCL) organics and inorganics (metals and cyanide), according to procedures outlined in the Quality Assurance Project Plan (QAPjP), June 1993, and the NYSDEC Analytical Services Protocol, September 1989, 12/91 Revisions. The trip blank was analyzed for TCL volatiles only.

For the 64th Street-North site, all data were considered usable as qualified by the data review.

Volatile Organics

For volatiles analysis, the laboratory method blanks for the soils indicated low levels of the common laboratory solvent methylene chloride at 8 $\mu\text{g/kg}$, 9 $\mu\text{g/kg}$, and 11 $\mu\text{g/kg}$. The laboratory method blank for the water samples indicated low levels of the common laboratory solvents methylene chloride and acetone, at 13 $\mu\text{g/L}$ and 15 $\mu\text{g/L}$, respectively

although acetone was not detected in the soil method blanks. Soil samples had acetone detected at concentrations ranging from 10 $\mu\text{g/kg}$ to 64 $\mu\text{g/kg}$. Because acetone is a common laboratory solvent and was detected in the water blanks, the presence of the acetone in the soil samples is most likely attributable to laboratory background. The concentrations of methylene chloride in the soil and water samples and acetone in the water samples were less than 10 times the method blank levels and should be considered present due to laboratory background. The trip blank associated with the water samples had methylene chloride and carbon disulfide detected at 7 $\mu\text{g/L}$ and 6 $\mu\text{g/L}$, respectively. The trip blank associated with the samples taken from December 1 through 3 had methylene chloride and carbon disulfide at 7 $\mu\text{g/L}$ and 6 $\mu\text{g/L}$, respectively. There were no positive results for carbon disulfide in the samples that required qualification. The methylene chloride was previously qualified based on the laboratory method blank results.

Semivolatiles

For semivolatiles analysis, the laboratory method blanks for soil samples SS-1, SS-2, SS-3, SS-6, SS-7, TP-1, TP-2, TP-3, TP-6, and TP-7 indicated a low level of bis(2-ethylhexyl)phthalate at 70 $\mu\text{g/kg}$. Phthalate esters are plasticizers used in the latex gloves used to handle the samples in the field and laboratory. The laboratory method blank for the water samples had a low level of bis(2-ethylhexyl)phthalate detected at 1 $\mu\text{g/L}$. The water sample SW-1 had bis(2-ethylhexyl)phthalate detected at 2 $\mu\text{g/L}$. The positive result of bis(2-ethylhexyl)phthalate in this water sample was less than 10 times the method blank level and should be considered due to laboratory background. The positive results for bis(2-ethylhexyl)phthalate in samples SS-2, SS-3, SS-6, TP-2, and TP-3 were less than 10 times the method blank level and should be considered due to laboratory background.

Various phthalate compounds were detected in some of the remaining soil samples at levels less than the sample quantitation limits. The ranges of these phthalate compounds are as follows:

- Butylbenzylphthalate - 33 $\mu\text{g/kg}$;
- Bis(2-ethylhexyl)phthalate - 46 $\mu\text{g/kg}$ to 370 $\mu\text{g/kg}$;
- Diethylphthalate - 40 $\mu\text{g/kg}$ to 210 $\mu\text{g/kg}$; and
- Di-n-butylphthalate - 34 $\mu\text{g/kg}$ to 41 $\mu\text{g/kg}$.

The associated laboratory blanks were free of phthalate contamination. The concentrations of the above-mentioned phthalates should be considered due to field/laboratory background. Sample SS-8 had bis(2-ethylhexyl)phthalate detected at 620 $\mu\text{g/kg}$ and the concentration of this compound should be considered site-related.

The laboratory method blank associated with soil samples TP-3RE and TP-7RE had diethylphthalate and N-nitrosodiphenylamine detected at 1,200 $\mu\text{g/kg}$ and 420 $\mu\text{g/kg}$, respectively. The N-nitrosodiphenylamine detected in TP-3RE is less than five times the method blank level and should be considered due to laboratory background. Sample TP-7RE had N-nitrosodiphenylamine detected at 260,000 $\mu\text{g/kg}$ and the original analysis also had this compound detected at 240,000 $\mu\text{g/kg}$. These sample concentrations are greater than five times the method blank level and should be considered site-related. The compounds diethylphthalate, butylbenzylphthalate, di-n-butylphthalate and bis(2-ethylhexyl)phthalate were also detected in the remaining soil samples ranging from 40 $\mu\text{g/kg}$ to 210 $\mu\text{g/kg}$. The positive results for these compounds in the soil samples should be considered due to field/laboratory background. Bis(2-ethylhexyl)phthalate was detected in soil samples SS-11 and SS-11DL at 2,000 $\mu\text{g/kg}$ and 1,600 $\mu\text{g/kg}$, respectively. The associated method blank was free of contamination. Therefore, the bis(2-ethylhexyl)phthalate in this sample should be considered site-related. The original extraction of soil sample TP-8 had surrogate recoveries that were less than 10%. These sample results are not reported on the data summary form but are reported on pages 728A and 728B of the data pack. The sample was reextracted 28 days past the holding time, therefore, the positive results and quantitation limits for the reextracted sample are qualified "J" and "UJ" as estimated.

Pesticides/PCBs

For pesticide/PCB analysis, the "P" qualifier was used for compounds where the percent difference for the concentrations detected between the two gas chromatography columns was greater than 25%. The lower of the two values is reported and flagged "P". This qualifier is being changed to "J" as estimated for these compounds. The pesticide surrogate tetrachloro-m-xylene had low recoveries of less than 60% for soil samples SS-6, TP-6, and water samples SW-2 and SW-3. The positive results and quantitation limits for the samples are qualified "J" and "UJ" as estimated.

Inorganics

For inorganics analysis, the laboratory method blank for the soil samples had iron and lead detected at 3.7 $\mu\text{g/kg}$ and 0.4 $\mu\text{g/kg}$, respectively. The concentration of these metals in the soil samples were greater than five times the blank concentration and are considered usable without qualification. The laboratory method blank for water samples was free of contamination.

Summary

This review was conducted for the usability of the data for the report. There has been no qualification of the data other than for the above-mentioned items.

The qualifiers "UJ" and "B" were changed to "ND" in the report tables to show that actual site contamination was not detected in the associated samples.

Defined Qualifiers

B = Analyte is found in the associated blank as well as in the sample.

J = Value is estimated.

UJ = Quantitation limits are estimated.

R = Data are rejected and unusable.

Table B-1
POLYNUCLEAR AROMATIC HYDROCARBON (PAH) ANALYSIS LIST
Naphthalene
2-Methylnaphthalene
2-Chloronaphthalene
Acenaphthylene
Acenaphthene
Fluorene
Phenanthrene
Anthracene
Fluoranthene
Pyrene
Benzo(a)anthracene ^a
Chrysene ^a
Benzo(b)fluoranthene ^a
Benzo(k)fluoranthene ^a
Benzo(a)pyrene ^a
Indeno(1,2,3-cd)pyrene ^a
Dibenz(a,h)anthracene ^a
Benzo(g,h,i)perylene

^a Considered carcinogenic (Department of Health and Human Services, 1993).

DATA SUMMARY FORM: INORGANICS										
E.P. Toxicity										
WATER SAMPLES										
(µg/L)										
mg/L										
Due to dilution, sample quantitation limit is affected.										
See dilution table for specifics.										
Site Name:	64th Street - North	Sample Number:	9402.696	Sampling Date(s):	12/1/94	SS-2R	SS-3R	SS-4R	SS-5R	SS-6R
Job Number:	9402.696	Dilution Factor:	1.0			1.0	1.0	1.0	1.0	1.0
CRQL	Compound	Location:								
200	Aluminum		NA	NA	NA	NA	NA	NA	NA	NA
60	Antimony		NA	NA	NA	NA	NA	NA	NA	NA
10	Arsenic		NA	NA	NA	NA	NA	NA	NA	NA
200	Barium		NA	NA	NA	NA	NA	NA	NA	NA
5	Beryllium		NA	NA	NA	NA	NA	NA	NA	NA
5	Cadmium		NA	NA	NA	NA	NA	NA	NA	NA
5000	Calcium		NA	NA	NA	NA	NA	NA	NA	NA
10	Chromium		0.011 B	0.013 B	ND	0.0053 B	0.0084 B	ND	ND	ND
50	Cobalt		NA	NA	NA	NA	NA	NA	NA	NA
25	Copper		NA	NA	NA	NA	NA	NA	NA	NA
100	Iron		NA	NA	NA	NA	NA	NA	NA	NA
3	Lead		ND	0.064 B	0.16 B	0.088 B	0.17 B	0.069 B	0.14 B	B
5000	Magnesium		NA	NA	NA	NA	NA	NA	NA	NA
15	Manganese		NA	NA	NA	NA	NA	NA	NA	NA
0.2	Mercury		ND	ND	ND	ND	ND	ND	ND	ND
40	Nickel		NA	NA	NA	NA	NA	NA	NA	NA
5000	Potassium		NA	NA	NA	NA	NA	NA	NA	NA
5	Selenium		NA	NA	NA	NA	NA	NA	NA	NA
10	Silver		NA	NA	NA	NA	NA	NA	NA	NA
5000	Sodium		NA	NA	NA	NA	NA	NA	NA	NA
10	Thallium		NA	NA	NA	NA	NA	NA	NA	NA
50	Vanadium		NA	NA	NA	NA	NA	NA	NA	NA
20	Zinc		NA	NA	NA	NA	NA	NA	NA	NA
10	Cyanide		NA	NA	NA	NA	NA	NA	NA	NA

CRQL = Contract Required Quantitation Limit.

NA = NOT ANALYZED

DATA SUMMARY FORM: INORGANICS									
EP Toxicity WATER SAMPLES (ug/L) (mg/L)									
Due to dilution, sample quantitation limit is affected. See dilution table for specifics.									
Site Name: 64th Street - North		Job Number: 9402.696 Sampling Date(s): 12/1/94							
CRQL	Compound	Sample Number		TP-5R	TP-7R	TP-9R	TP-11R	TP-13R	SED-1R
		Dilution Factor							
Location									
200	Aluminum	NA	NA	NA	NA	NA	NA	NA	NA
60	Antimony	NA	NA	NA	NA	NA	NA	NA	NA
10	Arsenic	NA	NA	NA	NA	NA	NA	NA	NA
200	Barium	NA	NA	NA	NA	NA	NA	NA	NA
5	Beryllium	NA	NA	NA	NA	NA	NA	NA	NA
5	Cadmium	NA	NA	NA	NA	NA	NA	NA	NA
5000	Calcium	NA	NA	NA	NA	NA	NA	NA	NA
10	Chromium	0.0049 B	0.0054 B	0.0063 B	0.011 B	0.024 B	0.035 B	0.49 B	0.13 B
50	Cobalt	NA	NA	NA	NA	NA	NA	NA	NA
25	Copper	NA	NA	NA	NA	NA	NA	NA	NA
100	Iron	NA	NA	NA	NA	NA	NA	NA	NA
3	Lead	ND	ND	11.7	0.091 B	0.035 B	0.49 B	0.13 B	NA
5000	Magnesium	NA	NA	NA	NA	NA	NA	NA	NA
15	Manganese	NA	NA	NA	NA	NA	NA	NA	NA
0.2	Mercury	ND	ND	ND	ND	ND	ND	ND	ND
40	Nickel	NA	NA	NA	NA	NA	NA	NA	NA
5000	Potassium	NA	NA	NA	NA	NA	NA	NA	NA
5	Selenium	NA	NA	NA	NA	NA	NA	NA	NA
10	Silver	NA	NA	NA	NA	NA	NA	NA	NA
5000	Sodium	NA	NA	NA	NA	NA	NA	NA	NA
10	Thallium	NA	NA	NA	NA	NA	NA	NA	NA
50	Vanadium	NA	NA	NA	NA	NA	NA	NA	NA
20	Zinc	NA	NA	NA	NA	NA	NA	NA	NA
10	Cyanide	NA	NA	NA	NA	NA	NA	NA	NA

NA = NOT ANALYZED

CRQL = Contract Required Quantitation Limit.

[illegible]

CRQL = Contract Required Quantitation Limit.

ecology and environment

02:YS7900 D4452-TWDS-02/15/94-D1

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: VOLATILES 2

Site Name: 64th Street-North

Job Number: 9302.803 Sampling Date(s): 12/3/93

WATER SAMPLES

(μg/L)

**To calculate sample quantitation limit:
(CRQL • Dilution Factor)**

[illegible]

CRQL = Contract Required Quantitation Limit.

CRQL = Contract Required Quantitation Limit.

CRQL = Contract Required Quantitation Limit.

CRQL = Contract Required Quantitation Limit.

CRQL = Contract Required Quantitation Limit.

CROL = Contract Required Quantitation Limit.

ecology and environment

02: YS7900 D4452-TSDS-02/15/94-D1

CROL = Contract Required Quantitation Limit.

CROL = Contract Required Quantitation Limit.

CPQI = Contract Required Quantitation Limit.

SOIL SAMPLES
($\mu\text{g/kg}$)

To calculate sample quantitation limit:

$$(CROL \cdot \text{Dilution Factor}) / ((100 - \% \text{ moisture})/100)$$

CRPI = Contract Required Quantitation Limit.

64th Street-North

Site Name:

Job Number: 9302.786 Sampling Date(s): 12/1/93

SOIL SAMPLES
($\mu\text{g}/\text{kg}$)

To calculate sample quantitation limit:

$$(\text{CROL} \div \text{Dilution Factor}) / ((100 - \% \text{moisture}) / 100)$$

[illegible]

CROL = Contract Required Quantitation Limit.

02: YS7900 D4452-TSDS-02/15/94-DI

DATA SUMMARY FORM: VOLATILES 2

Site Name:

64th Street - North

Job Number: 9302.786 Sampling Date(s): 12/1/93

(μg/L)

(μg/L)

**To calculate sample quantitation limit:
(CRQL ÷ Dilution Factor)**

Sample Number:
Dilution Factor:
Location:

Storage B1k	VBLKW1
9:1	1:0

Compound

10

1,2-Dichloropropane

cis-1,3-Dichloropropene

Trichloroethene

Dibromochloromethane

1,1,2-Trichloroethane

Benzene

trans-1,3-Dichloroprop

Bromoform

4-Methyl-2-pentanone

2-Hexanone

Tetrachloroethene

1,1,2,2-Tetrachloroeth

Toluene

Chlorobenzene

Stylybenzene

styrene

ТОШІ ХҮҮСНЭ

1

Figure 1

Abstract

Table 1

CRQL = Contract Required Quantitation Limit.

CRQL = Contract Required Quantitation Limit.

SOIL SAMPLES
($\mu\text{g/kg}$)

Site Name: 64th Street-North
Job Number: 9302.S.11 Sampling Date(s): 12/3/93

To calculate sample quantitation limit:

$$(CROL \cdot \text{Dilution Factor}) / (100 - \% \text{ moisture}/100)$$

[illegible]

CROL = Contract Required Quantitation Limit.

02: YS7900 D4452-TSDS-02/15/94-DI

64th Street - North

Site Name:

Job Number: 9302.811 Sampling Date(s): 12/3/93

SOIL SAMPLES

 $(\mu\text{g}/\text{kg})$

To calculate sample quantitation limit:
(CROL * Dilution Factor) / ((100 - % moisture)/100)

[illegible]

CROL = Contract Required Quantitation Limit.

Site Name: 64th Street-North

Job Number: 9302.811 Sampling Date(s): 12/3/93

SOIL SAMPLES

To calculate sample quantitation limit:

$$((CROL \cdot \text{Dilution Factor}) / ((100 - \% \text{ moisture})/100))$$

[illegible]

CROL = Contract Required Quantitation Limit.

02: YS7900 D4452-TSDS-02/15/94-DI

DATA SUMMARY FORM: B N A S 1												
Site Name: <u>644th Street</u>		WATER SAMPLES (ug/L)		To calculate sample quantitation limit: (CRQL * Dilution Factor)								
Job Number: <u>9302.811</u> Sampling Date(s): <u>12/3/93</u>		Sample Number	Dilution Factor	Location	Compound	SW-1	SW-2	SW-3	SBLKWI	MSB	SW-2 MS	SW-2 MSD
10			1.0		Phenol					37	32	38
10					bis(2-Chloroethyl)ether							
10					2-Chlorophenol					51	38	50
10					1,3-Dichlorobenzene							
10					1,4-Dichlorobenzene					35	24	37
10					1,2-Dichlorobenzene							
10					2-Methylphenol							
10					2,2'-oxybis(1-chloropropane)							
10					4-Methylphenol							
10					N-Nitroso-di-n-propylamine					34	25	35
10					Hexachloroethane							
10					Nitrobenzene							
10					Isophorone							
10					2-Nitrophenol							2 J
10					2,4-Dimethylphenol							
10					bis(2-Chloroethoxy)methane							
10					2,4-Dichlorophenol							
10					1,2,4-Trichlorobenzene					35	24	36
10					Naphthalene							
10					4-Chloroaniline							

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: BNAS 2													
Site Name: <u>644th Street-North</u>		Job Number: <u>9302.811</u>		Sampling Date(s): <u>12/3/93</u>		WATER SAMPLES (µg/L)						To calculate sample quantitation limit: (CRQL * Dilution Factor)	
CRQL	Compound	Sample Number Dilution Factor	SW-1 1.0	SW-2 1.0	SW-3 1.0	SBLKSI 1.0	MSB 1.0	SW-2 MS 1.0	SW-2 MSD 1.0				
10	Hexachlorobutadiene												
10	4-Chloro-3-methylphenol						51	37	45				
10	2-Methylnaphthalene												
10	Hexachlorocyclopentadiene												
10	2,4,6-Trichlorophenol												
25	2,4,5-Trichlorophenol												
10	2-Chloronaphthalene												
25	2-Nitroaniline												
10	Dimethylphthalate												
10	Acenaphthylene												
10	2,6-Dinitrotoluene												
25	3-Nitroaniline												
10	Acenaphthene						37	28	38				
25	2,4-Dinitrophenol												
25	4-Nitrophenol						39	32	40				
10	Dibenzofuran												
10	2,4-Dinitrotoluene						33	23	31				
10	Diethylphthalate												
10	4-Chlorophenyl-phenylether												
10	Fluorene												
25	4-Nitroaniline												
25	4,6-Dinitro-2-methylphenol												

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 3											
Site Name: <u>64th Street-North</u>		WATER SAMPLES		To calculate sample quantitation limit: (CRQL * Dilution Factor)							
Job Number: <u>9302.811</u>		Sampling Date(s): <u>12/3/93</u>									
CRQL	Compound	Sample Number	Dilution Factor	Location	SW-1	SW-2	SW-3	SBLKWL	MSB	SW-2MS	SW-2MSN
10	N-Nitrosodiphenylamine										
10	4-Bromophenyl-phenylether										
10	Hexachlorobenzene										
25	Pentachlorophenol										
10	Phenanthrene										
10	Anthracene										
10	Carbazole										
10	Di-n-butylphthalate										
10	Fluoranthene										
10	Pyrene										
10	Butylbenzylphthalate										
10	3,3'-Dichlorobenzidine										
10	Benzo(a)anthracene										
10	Chrysene										
10	bio(2-Ethylhexyl)phthalate										
10	Di-n-octylphthalate										
10	Benzo(b)fluoranthene										
10	Benzo(k)fluoranthene										
10	Benzo(a)pyrene										
10	Indeno(1,2,3-cd)pyrene										
10	Dibenz(a,h)anthracene										
10	Benzo(g,h,i)perylene										

CRQL = Contract Required Quantitation Limit.

CBOL. = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 2												
Site Name: <u>64th Street-North</u>		SOIL SAMPLES		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)								
Job Number: <u>9302.811</u>		Sampling Date(s): <u>12/3/93</u>										
CRQL	Sample Number	Dilution Factor	% Moisture	Location	SED-1	SED-2	SED-3	SS-10	SS-11	SS-1DL	SS-13	TP-1D
330	Hexachlorobutadiene											
330	4-Chloro-3-methylphenol											
330	2-Methylnaphthalene											
330	Hexachlorocyclopentadiene											
330	2,4,6-Trichlorophenol											
800	2,4,5-Trichlorophenol											
330	2-Chloronaphthalene											
800	2-Nitroaniline											
330	Dimethylphthalate											
330	Acenaphthylene											
330	2,6-Dinitrotoluene											
800	3-Nitroaniline											
330	Acenaphthene				74 J		83 J	43 J	280 J			
800	2,4-Dinitrophenol											
800	4-Nitrophenol								130 J			
330	Dibenzofuran						31 J					
330	2,4-Dinitrotoluene						58 J					
330	Diethylphthalate											
330	4-Chlorophenyl-phenylether											
330	Fluorene				72 J		60 J		190 J			45 J
800	4-Nitroaniline											
800	4,6-Dinitro-2-methylphenol											

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 3												
Site Name: 64th Street-North		SOIL SAMPLES										
Job Number: 9302.811		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)										
Sampling Date(s): 12/3/93												
CRQL	Compound	Sample Number	SED-1	SED-2	SED-3	SS-10	SS-11	SS-11DL	SS-13	TP-10		
		Dilution Factor										
		% Moisture										
		Location										
330	N-Nitrosodiphenylamine		71 J		160 J		27,000 E	41,000 D				
330	4-Bromophenyl-phenylether				59 J							
330	Hexachlorobenzene											
800	Pentachlorophenol											
330	Phenanthrene		740		550	420	1,800	1,300 DJ	190 J	590		
330	Anthracene		180 J		130 J	74 J	480		45 J	76 J		
330	Carbazole		180 J		100 J					65 J		
330	Di-n-butylphthalate											
330	Fluoranthene		1,400		800	700	370 J	1,400 DJ	320 J	1,200		
330	Pyrene		1,000	29 J	800	560	1,700	1,900 DJ	290 J	880		
330	Butylbenzylphthalate				33 J							
330	3,3'-Dichlorobenzidine											
330	Benzo(a)anthracene		530		500	360 J	1,200		180 J	590		
330	Chrysene		740		690	370 J	1,200		270 J	580		
330	bis(2-Ethylhexyl)phthalate		46 J		210 J		2,000	1,600 DJ	68 J			
330	Di-n-octylphthalate											
330	Benzo(b)fluoranthene		710		860	480	1,800	1,400 DJ	470	870		
330	Benzo(k)fluoranthene		1,100		250 J	150 J	710			240 J		
330	Benzo(a)pyrene		480 J		630	340 J	1,100	1,300 DJ	230 J	590		
330	Indeno(1,2,3-cd)pyrene		380 J		460 J	320 J	1,400	910 DJ	200 J	580		
330	Dibenz(a,h)anthracene		63 J		100 J	44 J	260 J		31 J	97 J		
330	Benzo(g,h,i)perylene		350 J		440 J	300 J	1,200	890 DJ	200 J	520		

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 1									
Site Name: <u>64th Street-North</u>		SOIL SAMPLES (ug/kg)		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((1 - % moisture)/100)					
Job Number: <u>9302.811</u>	Sampling Date(s): <u>12/3/93</u>	TP-11	TP-13	SBLKSI	MSBI	SS-10MS	SS-10MSD		
CRQL	Compound	Dilution Factor	% Moisture	Location					
330	Phenol	1.0	23		1,100	1,200	1,200		
330	bis(2-Chloroethyl)ether	1.0			1,100	1,100	1,200		
330	2-Chlorophenol								
330	1,3-Dichlorobenzene				810	740	670		
330	1,4-Dichlorobenzene								
330	1,2-Dichlorobenzene								
330	2-Methylphenol								
330	2,2'-oxybis(1-chloropropane)								
330	4-Methylphenol								
330	N-Nitroso-di-n-propylamine				870	890	950		
330	Hexachloroethane								
330	Nitrobenzene								
330	Isophorone								
330	2-Nitrophenol								
330	2,4-Dimethylphenol								
330	bis(2-Chloroethoxy)methane								
330	2,4-Dichlorophenol								
330	1,2,4-Trichlorobenzene				900	850	870		
330	Naphthalene								
330	4-Chloroaniline								

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 2											
Site Name: <u>64th Street North</u>		SOIL SAMPLES (ug/kg)		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)							
Job Number: <u>9302.811</u>		Sampling Date(s): <u>12/3/93</u>		TP-11	TP-13	SBLKSI	MSBI	SS-10MS	SS-10MSD		
CRQL	Compound	Sample Number	Dilution Factor	% Moisture	Location						
330	Hexachlorobutadiene										
330	4-Chloro-3-methylphenol										
330	2-Methylnaphthalene										
330	Hexachlorocyclopentadiene										
330	2,4,6-Trichlorophenol										
800	2,4,5-Trichlorophenol										
330	2-Chloronaphthalene										
800	2-Nitroaniline										
330	Dimethylphthalate										
330	Acenaphthylene										
330	2,6-Dinitrotoluene										
800	3-Nitroaniline										
330	Acenaphthene										
800	2,4-Dinitrophenol										
800	4-Nitrophenol										
330	Dibenzofuran										
330	2,4-Dinitrotoluene										
330	Diethylphthalate										
330	4-Chlorophenyl-phenylether										
330	Fluorene										
800	4-Nitroaniline										
800	4,6-Dinitro-2-methylphenol										

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: BNAS 3									
Site Name: <u>64th Street - North</u>		SOIL SAMPLES (ug/kg)		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)					
Job Number: <u>9302.811</u> Sampling Date(s): <u>12/3/93</u>									
CRQL	Compound	Sample Number Dilution Factor % Moisture Location	TP-11	TP-13	SBLKSI	MSBI	SS-10MS	SS-10HSD	
330	N-Nitrosodiphenylamine		220 J						
330	4-Bromophenyl-phenylether								
330	Hexachlorobenzene								
800	Pentachlorophenol								
330	Phenanthrene		1,200	600		1,300	1,000	1,100	
330	Anthracene		160 J	74 J			220 J	300 J	
330	Carbazole		130 J	100 J			40 J	55 J	
330	Di-n-butylphthalate						25 J	38 J	
330	Fluoranthene		2,300	1,200			370 J	390 J	
330	Pyrene		1,600	1,000		1,200	1,500	1,600	
330	Butylbenzylphthalate								
330	3,3'-Dichlorobenzidine								
330	Benzo(a)anthracene		930	510			200 J	240 J	
330	Chrysene		2,500	620			240 J	280 J	
330	bia(2-Ethylhexyl)phthalate		170 J					45 J	
330	Di-n-octylphthalate								
330	Benzo(b)fluoranthene		1,800	850			280 J	330 J	
330	Benzo(k)fluoranthene		440	310 J			110 J	130 J	
330	Benzo(a)pyrene		640	600			230 J	290 J	
330	Indeno(1,2,3-cd)pyrene		670	560			190 J	270 J	
330	Dibenz(a,h)anthracene		190 J	84 J			40 J	57 J	
330	Benzo(g,h,i)perylene		690	500			190 J	260 J	

CRQL = Contract Required Quantitation Limit.

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02: YS7900 D4452-TSD8-02/15/94-DI

DATA SUMMARY FORM: BNAS 2													
Site Name: <u>64th Street-North</u>		SOIL SAMPLES		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)									
Job Number: <u>9302.803</u>		Sampling Date(s): <u>12/1 & 12/2/93</u>											
CRQL	Compound	Sample Number	Dilution Factor	% Moisture	Location	SS-4	SS-5	SS-8	SS-9	SS-12	SS-14	SS-15	SS-16
330	Hexachlorobutadiene												
330	4-Chloro-3-methylphenol												
330	2-Methylnaphthalene					48 J		37 J					
330	Hexachlorocyclopentadiene												
330	2,4,6-Trichlorophenol												
800	2,4,5-Trichlorophenol												
330	2-Chloronaphthalene												
800	2-Nitroaniline												
330	Dimethylphthalate												
330	Acenaphthylene												
330	2,6-Dinitrotoluene												
800	3-Nitroaniline												
330	Acenaphthene					110 J	470 J	190 J					
800	2,4-Dinitrophenol												
800	4-Nitrophenol												
330	Dibenzofuran					77 J	140 J	96 J					
330	2,4-Dinitrotoluene												
330	Diethylphthalate							51 J	120 J	130 J	55 J	52 J	
330	4-Chlorophenyl-phenylether												
330	Fluorene					130 J	300 J	180					
800	4-Nitroaniline												
800	4,6-Dinitro-2-methylphenol												

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 3													
Site Name: 64th Street - North		SOIL SAMPLES											
Job Number: 9302.803		Sampling Date(s): 12/1 & 12/2/93		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)									
CRQL	Compound	Sample Number:											
		Dilution Factor	% Moisture										
Location:													
330	N-Nitrosodiphenylamine	SS-4	SS-5	SS-8	SS-9	SS-12	SS-14	SS-15	SS-16				
330	4-Bromophenyl-phenylether	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
330	Hexachlorobenzene	22	31	21	16	19	26	32	25				
800	Pentachlorophenol												
330	Phenanthrene	190 J	250 J	550									
330	Anthracene	65 J											
330	Carbazole	1,200	2,300	1,000	290 J	180 J	71 J	220 J	86 J				
330	Di-n-butylphthalate	320 J	660	360 J	73 J								
330	Fluoranthene	180 J	510	220 J	39 J								
330	Pyrene	34 J	41 J										
330	Butylbenzylphthalate	2,200	3,800	1,600	900	380 J	180 J	440 J	150 J				
330	3,3'-Dichlorobenzidine	2,000	3,400	1,300	640	340 J	150 J	370 J	120 J				
330	Benzo(a)anthracene												
330	Chrysene	1,300	2,900	950	440	260 J		280 J	79 J				
330	bis(2-Ethylhexyl)phthalate	1,800	3,800	840	680	220 J	250 J	300 J	78 J				
330	Di-n-octylphthalate	190 J		620	370 J	44 J		120 J	24 J				
330	Benzo(b)fluoranthene												
330	Benzo(k)fluoranthene	2,000	820	1,000	820	570	200 J	670	170 J				
330	Benzo(a)pyrene	200 J	2,700	190 J	54 J	56 J							
330	Indeno(1,2,3-cd)pyrene	1,300	1,700	730	210 J	200 J	79 J	260 J					
330	Dibenz(a,h)anthracene	760	440 J	680	260 J	260 J	120 J	310 J	79 J				
330	Benzo(g,h,i)perylene	330 J	330 J	260 J	110 J	77 J		84 J	27 J				
330		750	900	580	240 J	230 J	110 J	280 J	70 J				

CRQL = Contract Required Quantitation Limit.

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: BNAS 2																	
Site Name: <u>64th Street - North</u>		SOIL SAMPLES															
Job Number: <u>9302.803</u>		Sampling Date(s): <u>12/1 & 12/2/93</u>															
Sample Number		Dilution Factor		TP-5		TP-8		TP-9		TP-12		SBLKS1		SBLKS2		MSB	
Location:		% Moisture		TP-5		TP-8		TP-9		TP-12		SBLKS1		SBLKS2		MSB	
CRQL	Compound																
330	Hexachlorobutadiene																
330	4-Chloro-3-methylphenol																
330	2-Methylnaphthalene							180 J									580
330	Hexachlorocyclopentadiene																
330	2,4,6-Trichlorophenol																
800	2,4,5-Trichlorophenol																
330	2-Chloronaphthalene																
800	2-Nitroaniline																
330	Dimethylphthalate																
330	Acenaphthylene									60 J							
330	2,6-Dinitrotoluene																
800	3-Nitroaniline																
330	Acenaphthene			57 J				130 J		53 J							1,100
800	2,4-Dinitrophenol																
800	4-Nitrophenol																
330	Dibenzofuran							330 J									
330	2,4-Dinitrotoluene																
330	Diethylphthalate			100 J				210 J									
330	4-Chlorophenyl-phenylether																
330	Fluorene			59 J				180 J		94 J							
800	4-Nitroaniline																
800	4,6-Dinitro-2-methylphenol																

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL = Contract Required Quantitation Limit.

02:Y57900_D4432-TSDS-02/15/94.DI

DATA SUMMARY FORM: B N A S 3												
Site Name: <u>64th Street - North</u>		SOIL SAMPLES										
Job Number: <u>9302.803</u>		Sampling Date(s): <u>12/1 & 12/2/93</u>										
CRQL	Compound	Sample Number:		TP-4	TP-5	TP-8	TP-9	TP-12	To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)			MSB
		Dilution Factor:	% Moisture:						SBCLKS1	SBCLKS2	SBCLKS3	
330	N-Nitrosodiphenylamine			260 J		190 J	2,600					
330	4-Bromophenyl-phenylether											
330	Hexachlorobenzene											
800	Pentachlorophenol			120 J	120 J	240 J	1,700	790				1,700
330	Phenanthrene					49 J	540	130 J				
330	Anthracene						230 J	97 J				
330	Carbazole											
330	Di-n-butylphthalate				57 J							
330	Fluoranthene			73 J	140 J	370 J	890	1,400				
330	Pyrene			76 J	510	380 J	2,400	1,100				1,000
330	Butylbenzylphthalate											
330	3,3'-Dichlorobenzidine											
330	Benzo(a)anthracene				350 J	230 J		660				
330	Chrysene					170 J		600				
330	bis(2-Ethylhexyl)phthalate				75 J	180 J		76 J				
330	Di-n-octylphthalate											
330	Benzo(b)fluoranthene			65 J	70 J	340 J	1,900	1,200				
330	Benzo(k)fluoranthene				640		330	140 J				
330	Benzo(a)pyrene				280 J	200 J	860	570				
330	Indeno(1,2,3-cd)pyrene				290 J	190 J	990	620				
330	Dibenz(a,h)anthracene				130 J	56 J	380 J	75 J				
330	Benzo(g,h,i)perylene				270 J	190 J	830	520				

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 1													
Site Name: <u>644th Street-North</u>		SOIL SAMPLES		To calculate sample quantitation limit: (CRQL * Dilution Factor) / (1 - % moisture/100)									
Job Number: <u>9302-786</u>		Sampling Date(s): <u>12/1 & 12/2/93</u>		803		786							
CRQL	Compound	Sample Number	Dilution Factor	% Moisture	Location	TP-4MS	TP-4MSD	SS-1	SS-2	SS-3	SS-6	SS-7	TP-1
330	Phenol					1.0	1.0	1.0	1.0	20.0	1.0	1.0	
330	bia(2-Chloroethy)ether					34	34	8	28	26	23	32	19
330	2-Chlorophenol					Matrix spike	Matrix spike duplicate						
330	1,3-Dichlorobenzene												
330	1,4-Dichlorobenzene					180	1400						
330	1,2-Dichlorobenzene												
330	2-Methylphenol												
330	2,2'-oxybis(1-chloropropane)												
330	4-Methylphenol												
330	N-Nitroso-di-n-propylamine						4100						
330	Hexachloroethane												
330	Nitrobenzene												
330	Isophorone												
330	2-Nitrophenol						55						
330	2,4-Dimethylphenol												
330	bia(2-Chloroethoxy)methane												
330	2,4-Dichlorophenol												
330	1,2,4-Trichlorobenzene					180	1500						
330	Naphthalene								55	540			200
330	4-Chloroaniline												

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 2															
Site Name: <u>64th Street - North</u>		SOIL SAMPLES		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)											
Job Number: <u>9302.786</u>		Sampling Date(s): <u>12/1 & 12/2/93</u>		803-786											
CRQL	Compound	Sample Number	Dilution Factor	% Moisture	Location	TP-4MS	TP-4MSD	SS-1	SS-2	SS-3	SS-6	SS-7	TP-1		
330	Hexachlorobutadiene														
330	4-Chloro-3-methylphenol														
330	2-Methylnaphthalene														
330	Hexachlorocyclopentadiene														
330	2,4,6-Trichlorophenol														
800	2,4,5-Trichlorophenol														
330	2-Chloronaphthalene														
800	2-Nitroaniline														
330	Dimethylphthalate														
330	Acenaphthylene									720 J					
330	2,6-Dinitrotoluene														
800	3-Nitroaniline														
330	Acenaphthene	230	J	1,700		79	J	250	J	780	J	52	J	88	J
800	2,4-Dinitrophenol														
800	4-Nitrophenol														
330	Dibenzofuran														
330	2,4-Dinitrotoluene														
330	Diethylphthalate	330													
330	4-Chlorophenyl-phenylether														
330	Fluorene														
800	4-Nitroaniline														
800	4,6-Dinitro-2-methylphenol														

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 3											
Site Name: <u>64th Street-North</u>		SOIL SAMPLES		To calculate sample quantitation limits (CRQL * Dilution Factor) / ((100 - % moisture)/100)							
Job Number: <u>9302-786</u>		Sample Number		(ug/kg)							
Sampling Date(s): <u>12/1 & 12/2/93</u>		TP-4MSD		803 786							
CRQL	Compound	Sample Number	Dilution Factor	% Moisture	Location	TP-4MS					
						1.0	1.0	SS-1	SS-2	SS-3	SS-6
330	N-Nitrosodiphenylamine										
330	4-Bromophenyl-phenylether										
330	Hexachlorobenzene										
800	Pentachlorophenol										
330	Phenanthrene										
330	Anthracene										
330	Carbazole										
330	Di-n-butylphthalate										
330	Fluoranthene										
330	Pyrene										
330	Butylbenzylphthalate										
330	3,3'-Dichlorobenzidine										
330	Benzo(e)anthracene										
330	Chrysene										
330	bis(2-Ethylhexyl)phthalate										
330	Di-n-octylphthalate										
330	Benzo(b)fluoranthene										
330	Benzo(k)fluoranthene										
330	Benzo(a)pyrene										
330	Indeno(1,2,3-cd)pyrene										
330	Dibenz(a,h)anthracene										
330	Benzo(g,h,i)perylene										

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 1												
Site Name: <u>64th Street-North</u>		SOIL SAMPLES		To calculate sample quantitation limit: (CRQL * Dilution Factor) / (1 - % moisture/100)								
Job Number: <u>9302.786</u>		Sampling Date(s): <u>12/1/93</u>										
CRQL	Compound	Sample Number:	Dilution Factor:	% Moisture:	Location:	TP-2	TP-3	TP-3 RE	TP-6	TP-7	TP-7 RE	SBLK52
330	Phenol					1.0	1.0	1.0	1.0	5.0	50.0	1.0
330	bis(2-Chloroethylether					14	29	29	22	29	29	-
330	2-Chlorophenol							More acceptable			More acceptable	-
330	1,3-Dichlorobenzene											
330	1,4-Dichlorobenzene											
330	1,2-Dichlorobenzene											
330	2-Methylphenol											
330	2,2'-oxybis(1-chloropropane)											
330	4-Methylphenol											
330	N-Nitroso-di-n-propylamine											
330	Hexachloroethane											
330	Nitrobenzene											
330	Isophorone											
330	2-Nitrophenol											
330	2,4-Dimethylphenol											
330	bis(2-Chloroethoxy)methane											
330	2,4-Dichlorophenol											
330	1,2,4-Trichlorobenzene											
330	Naphthalene							63 J				
330	4-Chloroaniline											

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 2									
Site Name: <u>64th Street-North</u>		SOIL SAMPLES		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)					
Job Number: <u>9302, 786</u>		Sampling Date(s): <u>12/1/93</u>							
CRQL	Sample Number: Dilution Factor: % Moisture: Location:	TP-2	TP-3	TP-3 RE	TP-6	TP-7	TP-7 RE	SBLKS1	SBLKS2
330	Hexachlorobutadiene								
330	4-Chloro-3-methylphenol								
330	2-Methylnaphthalene								
330	Hexachlorocyclopentadiene								
330	2,4,6-Trichlorophenol								
800	2,4,5-Trichlorophenol								
330	2-Chloronaphthalene								
800	2-Nitroaniline								
330	Dimethylphthalate								
330	Acenaphthylene								
330	2,6-Dinitrotoluene								
800	3-Nitroaniline								
330	Acenaphthene	33	24	J	100	J			
800	2,4-Dinitrophenol								
800	4-Nitrophenol								
330	Dibenzofuran	58	J	20	J				
330	2,4-Dinitrotoluene								
330	Diethylphthalate			24					1200
330	4-Chlorophenyl-phenylether								
330	Fluorene	72	J	36	J				
800	4-Nitroaniline								
800	4,6-Dinitro-2-methylphenol								

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 3													
Site Name		SOIL SAMPLES											
Job Number		(µg/kg)											
Sampling Date(s)		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)											
CRQL	Sample Number	Dilution Factor	% Moisture	Locations	Compound	TP-2	TP-3	TP-3RE	TP-6	TP-7	TP-7RE	SBLSK1	SBLSK2
330	N-Nitrosodiphenylamine												
330	4-Bromophenyl-phenylether												
330	Hexachlorobenzene												
800	Pentachlorophenol												
330	Phenanthrene												
330	Anthracene												
330	Carbazole												
330	Di-n-butylphthalate												
330	Fluoranthene												
330	Pyrene												
330	Butylbenzylphthalate												
330	3,3'-Dichlorobenzidine												
330	Benzo(a)anthracene												
330	Chrysene												
330	bis(2-Ethylhexyl)phthalate												
330	Di-n-octylphthalate												
330	Benzo(b)fluoranthene												
330	Benzo(k)fluoranthene												
330	Benzo(a)pyrene												
330	Indeno(1,2,3-cd)pyrene												
330	Dibenz(a,h)anthracene												
330	Benzo(g,h,i)perylene												

64th Street-North	12/1/93	9308.786	1.0	1.0	1.0	1.0	1.0	5.0	50.0	1.0	1.0	1.0	1.0
			14	29	29	29	29	29	29	29	29	-	-

CRQL = Contract Required Quantitation Limit.

CROL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 2									
Site Name: <u>64th Street-North</u>		SOIL SAMPLES		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)					
Job Number: <u>920.786</u>		Sampling Date(s): <u>12/1/93</u>							
CRQL	Compound	Sample Number	Dilution Factor	% Moisture	Location	MSB	TP-2US	TP-2USD	
330	Hexachlorobutadiene								
330	4-Chloro-3-methylphenol								
330	2-Methylnaphthalene								
330	Hexachlorocyclopentadiene								
330	2,4,6-Trichlorophenol								
800	2,4,5-Trichlorophenol								
330	2-Chloronaphthalene								
800	2-Nitroaniline								
330	Dimethylphthalate								
330	Acenaphthylene								
330	2,6-Dinitrotoluene								
800	3-Nitroaniline								
330	Acenaphthene								
800	2,4-Dinitrophenol								
800	4-Nitrophenol								
330	Dibenzofuran								
330	2,4-Dinitrotoluene								
330	Diethylphthalate								
330	4-Chlorophenyl-phenylether								
330	Fluorene								
800	4-Nitroaniline								
800	4,6-Dinitro-2-methylphenol								

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 3											
Site Name: <u>64th Street-North</u>		SOIL SAMPLES		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)							
Job Number: <u>9303.786</u>		Sampling Date(s): <u>12/1/93</u>									
CRQL	Compound	Sample Number: Dilution Factor: % Moisture: Location:	MSB	TP-2 MS	TP-2 MSD						
330	N-Nitrosodiphenylamine										
330	4-Bromophenyl-phenylether										
330	Hexachlorobenzene										
800	Pentachlorophenol		1,300	1,200	1,200						
330	Phenanthrene			320 J	110 J						
330	Anthracene			38 J	25 J						
330	Carbazole			44 J							
330	Di-n-butylphthalate										
330	Fluoranthene			490 J	230 J						
330	Pyrene		1,200	1,300	1,300						
330	Butylbenzylphthalate										
330	3,3'-Dichlorobenzidine										
330	Benzo(a)anthracene			240 J	130 J						
330	Chrysene			270 J	140 J						
330	bis(2-Ethylhexyl)phthalate			50 BJ	24 BJ						
330	Di-n-octylphthalate										
330	Benzo(b)fluoranthene			280 J	150 J						
330	Benzo(k)fluoranthene			110 J	65 J						
330	Benzo(a)pyrene			180 J	110 J						
330	Indeno(1,2,3-cd)pyrene			160 J	87 J						
330	Dibenz(a,h)anthracene			58 J							
330	Benzo(g,h,i)perylene			220 J	110 J						

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: PESTICIDES AND PCBs

WATER SAMPLES

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

Site Name:

64th Street-North

Job Number:

9302.

Sampling Date(s):

12/3/93

(ug/L)

CRQL	Compound	Sample Number	Dilution Factor	Location	SW-1	SW-2	SW-3	PBLKW/	SW-2MS	SW-2MSB	MSB1
0.05	alpha-BHC										
0.05	beta-BHC				0.052	0.073	0.18				
0.05	delta-BHC										
0.05	gamma-BHC (Lindane)										
0.05	Heptachlor								0.87	0.84	0.36
0.05	Aldrin								0.87	0.82	0.33
0.05	Heptachlor epoxide								0.79	0.76	0.30
0.05	Endosulfan I										
0.10	Dieldrin								1.9	1.9	0.91
0.10	4,4'-DDE										
0.10	Endrin								2.1	2.0	0.95
0.10	Endosulfan II										
0.10	4,4'-DDD										
0.10	Endosulfan sulfate										
0.10	4,4'-DDT								1.9	1.9	0.89
0.50	Methoxychlor										
0.10	Endrin ketone										
0.10	Endrin aldehyde										
0.05	alpha-Chlordane										
0.05	gamma-Chlordane										
5.0	Toxaphene										

CRQL = Contract Required Quantitation Limit

02: YS7900 D4452-TWDS-02/15/94-DI

DATA SUMMARY FORM: PESTICIDES AND PCBs														
Site Name: <u>64th Street - North</u>		SOIL SAMPLES (µg/kg)												
Job Number: <u>9302.786</u>		Sampling Date(s): <u>12/1/93</u>												
CRQL	Compound	Sample Number	Dilution Factor		% Moisture		Location		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)					
			SS-1	SS-2	SS-3	SS-3DL	SS-6	SS-6DL	SS-7	SS-7DL				
1.7	alpha-BHC													
1.7	beta-BHC													
1.7	delta-BHC													
1.7	gamma-BHC (Lindane)													
1.7	Heptachlor													
1.7	Aldrin													
1.7	Heptachlor epoxide													
1.7	Endosulfan I													
3.3	Dieldrin													
3.3	4,4'-DDE													
3.3	Endrin													
3.3	Endosulfan II													
3.3	4,4'-DDD													
3.3	Endosulfan sulfate													
3.3	4,4'-DDT													
17	Methoxychlor													
3.3	Endrin ketone													
3.3	Endrin aldehyde													
1.7	alpha-Chlordane													
1.7	gamma-Chlordane													
170	Toxaphene													

CRQL = Contract Required Quantitation Limit.

C = Confirmed by GC/MS.
D = Diluted result.

B-59

CROL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: PESTICIDES AND PCBs												
Site Name: <u>64th Street-North</u>		SOIL SAMPLES		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)								
Job Number: <u>9302.786</u>		Sampling Date(s): <u>12/1/93</u>										
CRQL	Sample Number: Dilution Factor: % Moisture: Location:	Compound	TP-1	TP-1DL	TP-2	TP-2DL	TP-3	TP-6	TP-6DL			
1.7	alpha-BHC		10.0	100	5.0	50.0	1.0	1.0	10.0			
1.7	beta-BHC		19	19	14	14	29	22	22			
1.7	delta-BHC					More acceptable						
1.7	gamma-BHC (Lindane)											
1.7	Heptachlor				72	53	1.2	100	100	CD	CD	
1.7	Aldrin				290	320	4.0	190	250	CD	CD	
1.7	Heptachlor epoxide				26	22		5.0	J			
1.7	Endosulfan I				42	33		7.1				
3.3	Dieldrin											
3.3	4,4'-DDE											
3.3	Endrin											
3.3	Endosulfan II											
3.3	4,4'-DDD											
3.3	Endosulfan sulfate											
3.3	4,4'-DDT											
17	Methoxychlor											
3.3	Endrin ketone		110									
3.3	Endrin aldehyde											
1.7	alpha-Chlordane											
1.7	gamma-Chlordane											
170	Toxaphene											

CRQL = Contract Required Quantitation Limit.

C = Confirmed by GC/MS.
D = Diluted result.

02:YS7900 D4452-TSDS-02/21/94-DI

DATA SUMMARY FORM: PESTICIDES AND PCBs										
Site Name: <u>64th Street-North</u>		SOIL SAMPLES (µg/kg)		To calculate sample quantitation limit: (CRQL * Dilution Factor) / (100 - % moisture/100)						
Job Number: <u>9302.786</u>		Sampling Date(s): <u>12/1/93</u>		TP-7	TP-7DL	PBLKS1	PBLKS2	TP-2MS	TP-2MSD	MSB1
CRQL	Compound	Sample Number	Dilution Factor	% Moisture	Location					
1.7	alpha-BHC	54			53 D			120 C	110 C	
1.7	beta-BHC	93			120 D			310 C	190 C	
1.7	delta-BHC							36	14	
1.7	gamma-BHC (Lindane)							66	63	21
1.7	Heptachlor							18	18	21
1.7	Aldrin							18 J	18	20
1.7	Heptachlor epoxide	9.7 J								
1.7	Endosulfan I									
3.3	Dieldrin							36	37	41
3.3	4,4'-DDE									
3.3	Endrin							38	39	43
3.3	Endosulfan II									
3.3	4,4'-DDD									
3.3	Endosulfan sulfate									
3.3	4,4'-DDT							38	40	42
17	Methoxychlor				3300 DJ					
3.3	Endrin ketone									
3.3	Endrin aldehyde									
1.7	alpha-Chlordane									
1.7	gamma-Chlordane									
170	Toxaphene									

CRQL = Contract Required Quantitation Limit.

D = Diluted result.
C = Confirmed by GC/MS.

Site Name: 64th Street-North

SOIL SAMPLES

To calculate sample quantitation limit:

$$(\text{CROL} \div \text{Dilution Factor}) / ((100 - \% \text{ moisture})/100)$$

Site Name: 64th Street - North Job Number: 9302.786 Sampling Date(s): 12/1/93

Job Number	TP-7	TP-7DL	PBLKSI	PBLKSI	TP-2MS	TP-2MSD	MSBI
Sample Number	2.0	20.0	1.0	1.0	1.0	1.0	1.0
Dilution Factor	29	29	-	-	14	14	-
% Moisture							
Location							
Compound							
CRQL							
33							
Aroclor-1016							
62							
Aroclor-1221							
33							
Aroclor-1232							
33							
Aroclor-1242							
33							
Aroclor-1248							
33							
Aroclor-1254							
33							
Aroclor-1260							

CRQL = Contract Required Quantitation Limit.

02: YS7900 D4452-TSDS-02/21/94-DI

DATA SUMMARY FORM PESTICIDES AND PCBs												
Site Name: <u>64 th Street - North</u>		SOIL SAMPLES		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)								
Job Number: <u>9302.811</u>		Sampling Date(s): <u>12/3/93</u>										
CRQL	Compound	Sample Number Dilution Factor	SED-1	SED-2	SED-3	SED-3DL	SS-10	SS-11	SS-13	TP-10		
		% Moisture										
		Location										
1.7	alpha-BHC											
1.7	beta-BHC		2.8 J		60 C	51 C	2.2 J	29				
1.7	delta-BHC				270 C	310 CD	3.2	43 J				
1.7	gamma-BHC (Lindane)											
1.7	Heptachlor											
1.7	Aldrin											
1.7	Heptachlor epoxide											
1.7	Endosulfan I											
3.3	Dieldrin											
3.3	4,4'-DDE						18 J					
3.3	Endrin											
3.3	Endosulfan II											
3.3	4,4'-DDD							26 J				
3.3	Endosulfan sulfate											
3.3	4,4'-DDT		8.4 J					56				
17	Methoxychlor											
3.3	Endrin ketone											
3.3	Endrin aldehyde											
1.7	alpha-Chlordane						2.6					
1.7	gamma-Chlordane						2.5 J					
170	Toxaphene											

C = Confirmed by GC/MS
D = Diluted result.

CRQL = Contract Required Quantitation Limit.

[illegible]

CRQL = Contract Required Quantitation Limit.

02: YS7900 D4452-TSDS-02/21/94-DI

DATA SUMMARY FORM: PESTICIDES AND PCBs													
Site Name: <u>64th Street-North</u>		SOIL SAMPLES		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)									
Job Number: <u>9302.805</u>		Sampling Date(s): <u>12/11/2/93</u>											
CRQL	Compound	Sample Number	Dilution Factor	% Moisture	Location	TP-11	TP-13	PBLKSI	SED-2MS	SED-2MSD	MSB2	SS-4	SS-5
1.7	alpha-BHC					9.3	99					16	18
1.7	beta-BHC					22	23		2.8 J			57	32
1.7	delta-BHC												
1.7	gamma-BHC (Lindane)								15	11			
1.7	Heptachlor								17	11			
1.7	Aldrin								16	11			14 J
1.7	Heptachlor epoxide												
1.7	Endosulfan I												
3.3	Dieldrin								33	31	24		11 J
3.3	4,4'-DDE												
3.3	Endrin								37 J	35 J	25		
3.3	Endosulfan II												
3.3	4,4'-DDD					14 J							
3.3	Endosulfan sulfate												
3.3	4,4'-DDT					60			36	34	24		15
17	Methoxychlor												
3.3	Endrin ketone						89 J						
3.3	Endrin aldehyde												
1.7	alpha-Chlordane					4.4 J							
1.7	gamma-Chlordane					8.9 J							
170	Toxaphene												

CRQL = Contract Required Quantitation Limit.

02:YS7900 D4452-TSD6-02/21/94-D1

DATA SUMMARY FORM: PESTICIDES AND PCBs													
Site Name: <u>64th Street - North</u>		SOIL SAMPLES		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)									
Job Number: <u>9302.803</u>		Sampling Date(s): <u>12/13/2/93</u>											
CRQL	Compound	Sample Number	Dilution Factor	% Moisture	Location	SS-8	SS-9	SS-12	SS-14	SS-15	SS-16	TP-4	TP-5
1.7	alpha-BHC					63	11						12
1.7	beta-BHC					150	31					3.5	16 J
1.7	delta-BHC												29 J
1.7	gamma-BHC (Lindane)												
1.7	Heptachlor												
1.7	Aldrin					20							
1.7	Heptachlor epoxide												
1.7	Endosulfan I												
3.3	Dieldrin												
3.3	4,4'-DDE												
3.3	Endrin												
3.3	Endosulfan II												
3.3	4,4'-DDD												
3.3	Endosulfan sulfate												
3.3	4,4'-DDT						40						5.8 J
17	Methoxychlor												
3.3	Endrin ketone												
3.3	Endrin aldehyde												
1.7	alpha-Chlordane												
1.7	gamma-Chlordane												
170	Toxaphene												

CRQL = Contract Required Quantitation Limit.

SOIL SAMPLES
($\mu\text{g}/\text{kg}$)

To calculate sample quantitation limit:
(CROL * Dilution Factor) / ((100 - % moisture)/100)

[illegible]

CROL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: PESTICIDES AND PCBs											
Site Name: <u>64th Street - North</u>		SOIL SAMPLES (µg/kg)		To calculate sample quantitation limit: (CRQL * Dilution Factor) / ((100 - % moisture)/100)							
Job Number: <u>9302.803</u>		Sampling Date(s): <u>12/1 & 12/2/93</u>									
CRQL	Compound	Sample Number: Dilution Factor: % Moisture: Location:	TP-8	TP-9	TP-12	PBLKS1	PBLKS2	TP-4MS	TP-4MSD	TP-4MSD	MSB1
1.7	alpha-BHC		30	47							
1.7	beta-BHC		69	55 J				3.7	5.3		
1.7	delta-BHC										
1.7	gamma-BHC (Lindane)							17	18		12
1.7	Heptachlor							19	20		12
1.7	Aldrin			27 J				18	18		11
1.7	Heptachlor epoxide										
1.7	Endosulfan I										
3.3	Dieldrin							36	37		24
3.3	4,4'-DDE										
3.3	Endrin							41	43		26
3.3	Endosulfan II										
3.3	4,4'-DDD										
3.3	Endosulfan sulfate										
3.3	4,4'-DDT										
17	Methoxychlor										
3.3	Endrin ketone										
3.3	Endrin aldehyde										
1.7	alpha-Chlordane										
1.7	gamma-Chlordane										
170	Toxaphene										

CRQL = Contract Required Quantitation Limit.

[illegible]

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: INORGANICS									
Site Name: <u>64th Street - North</u>		WATER SAMPLES (µg/L)							
Job Number: <u>9302.811</u>		Sampling Date(s): <u>12/3/93</u>							
CRQL	Compound	Sample Number: Dilution Factor: Location:	SW-1	SW-2	SW-3	SW-2	SW-2	SW-2	Due to dilution, sample quantitation limit is affected. See dilution table for specifics.
200	Aluminum		267	614	345		622		
60	Antimony					441			
10	Arsenic					34			
200	Barium		43.0	59.2	61.8	2,010	59	Matrix spike duplicates	
5	Beryllium					51			
5	Cadmium					46			
5000	Calcium		50,600	165,000	136,000	201	167,000		
10	Chromium					475			
50	Cobalt					254	10.1		
25	Copper		16.8	8.0	13.7				
100	Iron		291	1,300	716		1,310		
3	Lead		24	2.4	9.4	23	2.8		
5000	Magnesium		12,100	32,200	26,900		32,100		
15	Manganese		87.8	307	397	802	310		
0.2	Mercury				0.22	1.1			
40	Nickel					477	4.8		
5000	Potassium		12,000	5,920	12,900		5,940		
5	Selenium					5.0			
10	Silver					47.6			
5000	Sodium		15,500	17,600	20,200		17,700		
10	Thallium			1.0		63			
50	Vanadium					459			
20	Zinc		276	229	183	674	260		
10	Cyanide			52.0		460	52		

DATA SUMMARY FORM: INORGANICS											
Site Name: <u>64th Street-North</u>		SOIL SAMPLES									
Job Number: <u>9302.786</u>		(mg/kg)									
Sampling Date(s): <u>12/1/93</u>		Due to dilution, sample quantitation limit is affected. See dilution table for specifics.									
CRQL	Compound	Sample Number	SS-1	SS-2	SS-3	SS-6	SS-7	TP-1	TP-2	TP-3	
		Dilution Factor									
		% Solids									
		Location									
40	Aluminum		6,610	23,700	12,800	9,020	10,500	10,800	11,700	11,600	
12	Antimony										
2	Arsenic		6.8	7.0	11.2	6.2	11.4	4.2	6.6	4.7	
40	Barium		37.5	219	119	94.1	143	59.7	85.7	62.4	
1	Beryllium		0.34	1.1	0.80	0.51	0.62	0.55	0.58	0.57	
1	Cadmium				4.2						
1000	Calcium		52,600	66,600	31,600	76,300	45,700	19,800	42,400	8,100	
2	Chromium		11.3	129	118	35.5	315	17.9	116.5	28.6	
10	Cobalt		9.1	23.4	19.0	10.9	13.2	11.8	10.5	15.1	
5	Copper		29.3	33.0	79.8	34.4	46.0	19.7	31.6	14.5	
20	Iron		17,700	27,100	23,800	15,400	20,200	18,600	18,000	17,900	
0.6	Lead		18.5	58.3	61.3	104	194	18.4	52.6	18.2	
1000	Magnesium		8,650	9,660	17,900	38,800	24,200	7,890	23,400	3,770	
3	Manganese		56.3	539	1,030	528	504	256	510	243	
0.2	Mercury			2.9	1.7	5.6	19.6				
8	Nickel		19.6	34.5	92.8	20.9	29.6	19.9	19.5	19.8	
1000	Potassium		914	4,330	1,750	1,960	1,940	1,760	2,130	943	
1	Selenium			0.71	0.73			0.34		0.49	
2	Silver										
1000	Sodium						460			1,000	
2	Thallium										
10	Vanadium		17.7	53.4	52.5	29.0	31.7	29.0	28.7	30.7	
4	Zinc		106	162	598	299	272	88.7	232	73.7	
2	Cyanide										

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: INORGANICS													
Site Name: 64th Street - North		SOIL SAMPLES		Due to dilution, sample quantitation limit is affected. See dilution table for specifics.									
Job Number: 9302.786		12/18/2013		786		803							
Sampling Date(s): 12/13/13													
CRQL	Compound	Sample Number	Dilution Factor	% Solids	Location	TP-6	TP-7	SS-4	SS-5	SS-8	SS-9	SS-12	SS-14
40	Aluminum		10,900			10,800		4,180	9,450	9,260	9,520	9,890	14,600
12	Antimony							35.2					
2	Arsenic		4.8			6.5		8.5	8.9	5.8	5.6	5.0	4.7
40	Barium		77.6			1,270		99.3	129	119	104	72.3	105
1	Beryllium		0.58			0.61		0.30	0.58	0.56	0.55	0.60	0.78
1	Cadmium								2.6				
1000	Calcium		20,700			41,300		98,900	52,400	45,000	42,400	25,600	59,300
2	Chromium		36.9			75.6		56.4	40.4	48.9	74.0	28.6	35.6
10	Cobalt		12.3			19.1		8.3	15.7	13.2	11.6	12.3	16.4
5	Copper		29.5			59.2		40.5	94.8	49.6	43.6	24.5	26.3
20	Iron		18,600			38,400		15,200	25,200	19,900	18,300	18,800	26,400
0.6	Lead		46.0			110		185	166	137	72.0	45.8	29.7
1000	Magnesium		6,000			11,700		47,200	19,100	19,100	16,400	10,800	19,600
3	Manganese		246			304		449	460	530	573	381	646
0.2	Mercury		0.39			2.6		5.4	0.87	2.5			
8	Nickel		22.1			36.9		21.3	32.2	31.9	38.8	22.9	27.4
1000	Potassium		1,190			1,840		755	1,430	2,400	1,270	737	4,080
1	Selenium		0.42										
2	Silver												
1000	Sodium					258			248		213	249	
2	Thallium								0.34			0.29	
10	Vanadium		29.6			40.2		21.3	30.1	30.4	27.9	28.9	37.8
4	Zinc		106			407		302	845	218	137	98.3	75.4
2	Cyanide									0.77			

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: INORGANICS													
Site Name: 64th Street-North		SOIL SAMPLES (mg/kg)											
Job Number: 9302.803		Sampling Date(s): 12/1 & 12/2/93											
Due to dilution, sample quantitation limit is affected. See dilution table for specifics.													
CRQL	Compound	Sample Number	Dilution Factor	% Solids	Location	SS-15	SS-16	TP-4	TP-5	TP-8	TP-9	TP-12	TP-4
40	Aluminum					11,100	11,600	14,200	11,000	8,570	11,200	9,570	
12	Antimony												117
2	Arsenic					6.7	5.5	6.1	12.3	8.6	9.1	5.3	17.3
40	Barium					85.6	65.8	111	273	86.9	167	64.3	753
1	Beryllium					0.63	0.56	0.80	0.97	0.47	6.66	0.59	16.1
1	Cadmium												13.6
1000	Calcium					8,370	3,540	74,500	71,900	11,900	38,500	15,300	
2	Chromium					35.4	24.7	128	36.1	24.2	39.1	21.3	267
10	Cobalt					14.7	13.2	19.5	16.7	13.3	16.9	12.3	162
5	Copper					26.0	16.4	31.8	107	37.7	75.7	24.0	112
20	Iron					17,200	18,200	24,400	34,400	19,800	27,400	19,300	
0.6	Lead					54.6	37.9	56.3	129	86.1	128	31.3	60
1000	Magnesium					3,340	3,040	42,300	11,700	5,650	10,400	6,790	
3	Manganese					277	219	747	379	322	410	296	897
0.2	Mercury								3.5	0.29	0.71		6.65
8	Nickel					28.9	24.4	28.5	33.8	26.5	66.1	21.7	165
1000	Potassium						1,440	1,890	2,320	672	2,110	568	
1	Selenium					0.59			0.65		0.31		2.12
2	Silver												12.5
1000	Sodium					788		344	302	257	682	204	
2	Thallium						0.27		0.48				16.8
10	Vanadium					30.6	28.9	38.5	36.2	24.1	32.9	24.6	192
4	Zinc					104	88.9	149	271	203	565	91.0	341
2	Cyanide										1.0		28.0

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: INORGANICS												
Site Name: <u>64th Street-North</u>		SOIL SAMPLES (mg/kg)										
Job Number: <u>9302.803</u>		Sampling Date(s): <u>12/3/93</u>										
CRQL	Compound	Sample Number	Dilution Factor	% Solids	Location							
40	Aluminum		17.184									
12	Antimony											
2	Arsenic		6.0									
40	Barium		125									
1	Beryllium		0.91									
1	Cadmium											
1000	Calcium		65.349									
2	Chromium		260									
10	Cobalt		21.7									
5	Copper		102									
20	Iron		26.217									
0.6	Lead		49.1									
1000	Magnesium		35.468									
3	Manganese		800									
0.2	Mercury											
8	Nickel		32.5									
1000	Potassium		2471									
1	Selenium											
2	Silver											
1000	Sodium		470									
2	Thallium											
10	Vanadium		47.2									
4	Zinc		217									
2	Cyanide											

Due to dilution, sample quantitation limit is affected.
See dilution table for specifics.

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: INORGANICS													
Site Name: <u>64th Street - North</u>		SOIL SAMPLES (mg/kg)											
Job Number: <u>9302.811</u>		Due to dilution, sample quantitation limit is affected. See dilution table for specifics.											
Sampling Date(s): <u>12/3/93</u>													
CRQL	Compound	Sample Number	Dilution Factor	% Solids	Location	SS-10	SS-11	SS-13	TP-10	TP-11	TP-13	TP-11	TP-11
40	Aluminum					4860	5570	7580	7570	6,220	8,750		8,711
12	Antimony											97.7	
2	Arsenic					3.3	5.3	7.6	5.0	4.4	4.3	13.7	4.4
40	Barium					46.0	69.2	164	189	64.2	82.2	76.7	222
1	Beryllium					0.40	0.46	0.59	0.49	0.54	0.63	14.4	6.61
1	Cadmium							0.78				13.6	
1000	Calcium					46900	59400	31,800	45,600	34,200	53,300		44,278
2	Chromium					21.1	35.2	47.3	76.1	32.5	138	93.8	57
10	Cobalt					14.0	8.7	15.6	11.0	10.9	14.0	141	12
5	Copper					21.1	27.4	35.20	43.1	27.9	25.9	112	55
20	Iron					12,600	13,900	23,400	15,300	14,500	18,700		17,400
0.6	Lead					28.3	92.5	231	135	59.8	35.7	153	165
1000	Magnesium					18,700	27,200	9,240	12,300	14,400	16,900		14,000
3	Manganese					336	465	542	334	355	440	566	466
0.2	Mercury					0.57	4.1	6.5	4.3	0.84	0.35		
8	Nickel					15.8	15.1	37.8	22.4	20.7	22.8	147	26.1
1000	Potassium					756	584	1,440	802	637	697		882
1	Selenium							0.41				1.4	
2	Silver											12.4	
1000	Sodium								242				215
2	Thallium					0.33		0.26	0.29			12.5	0.31
10	Vanadium					16.8	16.1	27.0	21.4	20.0	27.9	148	23.9
4	Zinc					114	130	405	335	102	106	469	390
2	Cyanide							1.5					

CRQL = Contract Required Quantitation Limit.

CROL = Contract Required Quantitation Limit.

NA = Not analyzed.

2000 12-22-00 PS-02/18 11:00:00

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

SS-1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 786

SAS No.:

SDG No.: SS-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76393

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: D9873

Level: (low/med) LOW

Date Received: 12/01/93

Moisture: not dec. 8

Date Analyzed: 12/06/93

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.09	6	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DRAFT

SS-1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 786

SAS No.:

SDG No.: SS-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76393

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6507

Level: (low/med) LOW

Date Received: 12/01/93

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 12/16/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/04/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 9.4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.04	130	J
2.	UNKNOWN	3.21	540	BJ
3.	UNKNOWN	4.14	250	BJ
4. 12-34-22	Aldol Condensation Product	5.40	1200	ABJN
5.	UNKNOWN HYDROCARBON	17.73	90	J
6.	UNKNOWN HYDROCARBON	19.40	90	J
7.	UNKNOWN HYDROCARBON	20.96	140	J
8.	UNKNOWN HYDROCARBON	22.46	310	J
9.	UNKNOWN HYDROCARBON	25.21	320	J
10.	UNKNOWN PAH	25.44	250	J
11.	UNKNOWN PAH	26.17	130	J
12.	UNKNOWN HYDROCARBON	26.50	90	J
13.	UNKNOWN	27.72	180	J
14.	UNKNOWN OXY. PAH	28.43	90	J
15.	UNKNOWN PAH	29.08	230	J
16.	UNKNOWN PAH	29.29	250	J
17.	UNKNOWN	29.84	320	J
18.	UNKNOWN HYDROCARBON	30.04	90	J
19.	UNKNOWN PAH	31.08	130	J
20.	UNKNOWN PAH	35.54	510	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC 31 1994
DRAFT
SS-2

ab Name: E & E INC. Contract: _____
Lab Code: EANDE Case No.: 786 SAS No.: _____ SDG No.: SS-1
atrix: (soil/water) SOIL Lab Sample ID: 76395
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E6535
evel: (low/med) LOW Date Received: 12/01/93
Moisture: 28 decanted: (Y/N) N Date Extracted: 12/16/93
Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/05/94
njection Volume: 2.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) Y pH: 8.7

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.98	210	J
2.	UNKNOWN	3.14	850	BJ
3.	UNKNOWN	3.24	160	J
4.	UNKNOWN	4.14	1500	BJ
5.	UNKNOWN	5.01	920	BJ
6. 12-34-22	Aldol Condensation Product	5.32	1800	ABJN
7. 95-16-9	Benzothiazole	14.42	180	JN
8.	UNKNOWN HYDROCARBON	22.37	180	J
9.	UNKNOWN HYDROCARBON	25.14	250	J
10.	UNKNOWN PAH	25.37	230	J
11. 10-54-4500	Molecular Sulfur	27.12	230	JN
12.	UNKNOWN PAH	29.00	210	J
13.	UNKNOWN	29.78	420	J
14.	UNKNOWN PAH	31.95	160	J
15.	UNKNOWN PAH	35.03	620	J
16.	UNKNOWN PAH	35.46	1200	J
17.	UNKNOWN HYDROCARBON	37.60	920	J
18.	UNKNOWN	41.23	510	J
19.	UNKNOWN	43.47	810	J
20.	UNKNOWN CHLORINATED HYDROCAR	44.67	1700	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DRAFT

SS-3

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 786

SAS No.:

SDG No.: SS-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76387

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6551

Level: (low/med) LOW

Date Received: 12/01/93

% Moisture: 26 decanted: (Y/N) N

Date Extracted: 12/16/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/06/94

Injection Volume: 2.0(uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y

pH: 7.2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.08	2900	BJ
2.	UNKNOWN	13.73	2000	J
3.	UNKNOWN	23.12	2100	J
4.	UNKNOWN PAH	25.06	2700	J
5.	UNKNOWN PAH	25.12	3100	J
6.	UNKNOWN PAH	25.32	7600	J
7.	UNKNOWN PAH	25.44	2100	J
8.	UNKNOWN PAH	26.06	3600	J
9.	UNKNOWN PAH	26.79	2700	J
10.	UNKNOWN PAH	27.46	2200	J
11.	UNKNOWN OXY. PAH	28.32	2200	J
12.	UNKNOWN PAH	28.95	4000	J
13.	UNKNOWN PAH	29.18	2200	J
14.	UNKNOWN PAH	31.90	2200	J
15.	UNKNOWN PAH	34.98	4300	J
16.	UNKNOWN	35.28	5200	J
17.	UNKNOWN PAH	35.41	8700	J
18.	UNKNOWN PAH	38.74	4300	J
19.	UNKNOWN	43.07	5600	J
20.	UNKNOWN CHLORINATED HYDROCAR	44.54	18000	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.
DRAFT

SS-6

ab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 786

SAS No.:

SDG No.: SS-1

atrix: (soil/water) SOIL

Lab Sample ID: 76389

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6532

Level: (low/med) LOW

Date Received: 12/01/93

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 12/16/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/05/94

njection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.02	320	J
2.	UNKNOWN	3.19	1400	BJ
3.	UNKNOWN	3.28	280	J
4.	UNKNOWN	4.20	2000	BJ
5.	UNKNOWN	4.55	170	J
6.	UNKNOWN	5.07	1900	BJ
7. 12-34-22	Aldol Condensation Product	5.34	750	ABJN
8.	UNKNOWN	5.67	280	J
9.	UNKNOWN	7.47	220	J
10.	UNKNOWN	15.29	220	J
11.	BETA-BHC	23.03	1100	J
12.	UNKNOWN	33.81	520	J
13.	UNKNOWN	34.14	1000	J
14.	UNKNOWN PAH	34.52	1200	J
15.	UNKNOWN OXY. HYDROCARBON	35.32	410	J
16.	UNKNOWN HYDROCARBON	35.89	430	J
17.	UNKNOWN OXY. HYDROCARBON	36.02	1900	J
18.	UNKNOWN HYDROCARBON	37.61	860	J
19.	UNKNOWN	40.01	650	J
20.	UNKNOWN CHLORINATED HYDROCAR	44.69	2000	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DRAFT

SS-7

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 786

SAS No.:

SDG No.: SS-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76391

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6533

Level: (low/med) LOW

Date Received: 12/01/93

% Moisture: 32 decanted: (Y/N) N

Date Extracted: 12/16/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/05/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.40	4900	ABJN
2. 95-16-9	Benzothiazole	14.42	610	JN
3.	METHYLPHENYLBENZENAMINE ISOM	21.74	880	J
4.	ALPHA-BHC	22.25	490	J
5.	BETA-BHC	23.04	3900	J
6.	UNKNOWN PAH	29.83	4900	J
7.	UNKNOWN	32.03	4400	J
8. 74-31-7	1,4-Benzenediamine, N,N'-dip	33.91	6600	JN
9.	UNKNOWN HYDROCARBON	34.06	540	J
10.	UNKNOWN	34.29	13000	J
11.	UNKNOWN	34.63	13000	J
12.	UNKNOWN	35.08	660	J
13.	UNKNOWN PAH	35.48	560	J
14.	UNKNOWN	36.13	510	J
15.	UNKNOWN	36.40	1000	J
16.	UNKNOWN	36.80	1400	J
17.	UNKNOWN HYDROCARBON	37.61	1500	J
18.	UNKNOWN	41.50	540	J
19.	UNKNOWN CHLORINATED HYDROCAR	43.21	510	J
20.	UNKNOWN CHLORINATED HYDROCAR	44.71	2900	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

TP-1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 786

SAS No.:

SDG No.: SS-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76394

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6534

Level: (low/med) LOW

Date Received: 12/01/93

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 12/16/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/05/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.17	370	BJ
2.	UNKNOWN	4.11	270	BJ
3. 12-34-22	Aldol Condensation Product	5.36	1500	ABJN
4.	UNKNOWN	12.74	100	BJ
5. 95-16-9	Benzothiazole	14.45	2300	JN
6.	METHYLTHIOBENZOTHAZOLE ISOM	20.91	680	J
7.	BENZOTHAZOLONE ISOMER	22.03	780	J
8.	UNKNOWN HYDROCARBON	22.38	180	J
9.	UNKNOWN HYDROCARBON	25.15	120	J
10.	METHYLTHIOBENZOTHAZOLE ISOM	25.51	700	J
11.	UNKNOWN ALKYL BENZOTHAZOLE	26.45	25000	J
12. 10-54-4500	Molecular Sulfur	27.12	120	JN
13.	UNKNOWN ALKYL BENZOTHAZOLE	28.21	430	J
14.	UNKNOWN ALKYL BENZOTHAZOLE	28.39	250	J
15.	UNKNOWN	29.82	3100	J
16.	UNKNOWN HYDROCARBON	29.95	270	J
17.	UNKNOWN	30.35	140	J
18.	UNKNOWN	33.13	180	J
19.	UNKNOWN	35.48	7000	J
20.	UNKNOWN HYDROCARBON	37.61	230	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

TP-2

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 786

SAS No.:

SDG No.: SS-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76396

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6536

Level: (low/med) LOW

Date Received: 12/01/93

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 12/16/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/05/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.8

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.89	120	J
2.	UNKNOWN	2.99	350	J
3.	UNKNOWN	3.16	1200	BJ
4.	UNKNOWN	3.25	310	J
5.	UNKNOWN	3.58	120	J
6.	UNKNOWN	3.75	460	J
7.	UNKNOWN	4.14	640	BJ
8.	UNKNOWN	5.03	950	BJ
9. 12-34-22	Aldol Condensation Product	5.29	350	ABJN
10.	UNKNOWN	7.46	140	J
11.	UNKNOWN	7.54	190	BJ
12.	UNKNOWN	7.60	140	J
13. 95-16-9	Benzothiazole	14.42	120	JN
14.	UNKNOWN CARBOXYLIC ACID	25.89	77	J
15.	UNKNOWN PAH	26.09	96	J
16.	UNKNOWN	27.08	140	J
17.	UNKNOWN	28.35	77	J
18.	UNKNOWN	30.56	77	J
19.	UNKNOWN HYDROCARBON	33.07	77	J
20.	UNKNOWN HYDROCARBON	34.04	190	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.
DRAFT

TP-3

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 786

SAS No.:

SDG No.: SS-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76388

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6502

Level: (low/med) LOW

Date Received: 12/01/93

% Moisture: 29 decanted: (Y/N) N

Date Extracted: 12/16/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/04/94

Injection Volume: 200(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.2

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.19	700	BJ
2.	UNKNOWN	4.19	700	BJ
3.	UNKNOWN	5.07	510	BJ
4. 12-34-22	Aldol Condensation Product	5.35	440	ABJN
5. 95-16-9	Benzothiazole	14.46	140	JN
6.	METHYLBENZOTHAZOLE ISOMER	15.79	140	J
7. 77-04-349	Pharmaceutical Sulfur	19.53	420	JN
8.	BENZOTHAZOLONE ISOMER	22.09	870	J
9.	Sulfur	23.84	630	JN
10. 10-54-4500	Molecular Sulfur	27.28	2600	JN
11.	UNKNOWN PAH	29.83	560	J
12.	UNKNOWN HYDROCARBON	34.11	280	J
13.	UNKNOWN OXY. HYDROCARBON	34.45	630	J
14.	UNKNOWN OXY. HYDROCARBON	35.40	610	J
15.	UNKNOWN OXY. HYDROCARBON	36.21	1800	J
16.	UNKNOWN HYDROCARBON	37.68	610	J
17.	UNKNOWN	39.47	280	J
18.	UNKNOWN	39.75	720	J
19.	UNKNOWN	40.12	890	J
20.	UNKNOWN	40.55	1300	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE **DRAFT**

TP-3RE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 786

SAS No.:

SDG No.: SS-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76388RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6917

Level: (low/med) LOW

Date Received: 12/01/93

% Moisture: 29 decanted: (Y/N) N

Date Extracted: 01/12/94

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/25/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.2

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.58	400	J
2.	UNKNOWN	3.48	4200	BJ
3.	UNKNOWN	4.32	3500	J
4. 12-34-22	Aldol Condensation Product	4.57	940	ABJN
5. 95-16-9	Benzothiazole	13.63	370	JN
6.	METHYLBENZOTHAZOLE ISOMER	14.94	330	J
7.	BENZOTHAZOLONE ISOMER	21.32	1600	J
8. 10-54-4500	Molecular Sulfur	26.17	350	JN
9.	UNKNOWN	28.90	3000	J
10.	UNKNOWN HYDROCARBON	31.22	720	J
11.	UNKNOWN HDYROCARBON	33.19	980	J
12.	UNKNOWN	33.27	1200	BJ
13.	UNKNOWN	33.63	630	J
14.	UNKNOWN OXY. HYDROCARBON	35.04	2600	J
15.	UNKNOWN HYDROCARBON	36.72	870	J
16.	UNKNOWN	38.23	980	J
17.	UNKNOWN	38.57	3500	J
18.	UNKNOWN	38.70	1700	J
19.	UNKNOWN	38.85	630	J
20.	UNKNOWN	39.03	940	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

TP-6

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 786

SAS No.:

SDG No.: SS-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76390

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6504

Level: (low/med) LOW

Date Received: 12/01/93

% Moisture: 22 decanted: (Y/N) N

Date Extracted: 12/16/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/04/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.6

Number TICs found: 13

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.21	260	BJ
2.	UNKNOWN	4.16	450	BJ
3. 12-34-22	Aldol Condensation Product	5.57	8100	ABJN
4.	UNKNOWN	8.31	130	J
5.	UNKNOWN	12.80	110	BJ
6.	ALPHA-BHC	22.31	430	J
7.	BETA-BHC	23.08	430	J
8.	UNKNOWN HYDROCARBON	27.72	110	J
9.	UNKNOWN HYDROCARBON	28.89	110	J
10.	UNKNOWN HYDROCARBON	30.03	110	J
11.	UNKNOWN HYDROCARBON	32.15	110	J
12.	UNKNOWN HYDROCARBON	34.11	110	J
13.	UNKNOWN HYDROCARBON	37.69	150	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE **DRAFT**

TP-7

Lab Name: E & E INC.

Contract:

Code: EANDE

Case No.: 786

SAS No.:

SDG No.: SS-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76392

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6506

Level: (low/med) LOW

Date Received: 12/01/93

% Moisture: 29 decanted: (Y/N) N

Date Extracted: 12/16/93

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 01/04/94

Injection Volume: 2.0(uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y

pH: 9.4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	METHYLPHENYLBENZENAMIANE ISO	21.85	340000	J
2.	UNKNOWN	22.03	56000	J
3.	UNKNOWN	22.79	56000	J
4.	UNKNOWN	31.64	19000	J
5.	UNKNOWN	32.05	160000	J
6.	UNKNOWN	32.40	30000	J
7.	DIPHENYLBENZENEDIAMINE ISOME	34.05	940000	J
8.	UNKNOWN	34.42	1100000	J
9.	UNKNOWN	34.77	940000	J
10.	UNKNOWN	36.86	11000	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

SS-9

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 803

SAS No.:

SDG No.: SS-4

Matrix: (soil/water) SOIL

Lab Sample ID: 76502

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: D9910

Level: (low/med) LOW

Date Received: 12/02/93

Moisture: not dec. 16

Date Analyzed: 12/07/93

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76-13-1	Freon 113	2.92	11	JN

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE **DRAFT**

SS-16

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 803

SAS No.:

SDG No.: SS-4

Matrix: (soil/water) SOIL

Lab Sample ID: 76508

Sample wt/vol: 4.9 (g/mL) G

Lab File ID: D9916

Level: (low/med) LOW

Date Received: 12/02/93

% Moisture: not dec. 25

Date Analyzed: 12/08/93

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76-13-1	Freon 113	2.87	9	JN

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE DRAFT

TP-9

Lab Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 803 SAS No.: _____ SDG No.: SS-4

Matrix: (soil/water) SOIL Lab Sample ID: 76503

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D9936

Level: (low/med) LOW Date Received: 12/02/93

% Moisture: not dec. 30 Date Analyzed: 12/08/93

GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	TRIFLUOROTOLUENE ISOMER	11.71	16	J
2.	CHLOROTRIFLUOROTOLUENE ISOME	19.71	19	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE DRAFT

TP-12

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 803

SAS No.:

SDG No.: SS-4

Matrix: (soil/water) SOIL

Lab Sample ID: 76504

Sample wt/vol: 4.9 (g/mL) G

Lab File ID: D9912

Level: (low/med) LOW

Date Received: 12/02/93

Moisture: not dec. 21

Date Analyzed: 12/07/93

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76-13-1	Freon 113	2.91	11	JN

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMP **DRAFT**

SS-4

Lab Name: E & E -INC.

Contract:

Lab Code: EANDE

Case No.: 803

SAS No.:

SDG No.: SS-4

Matrix: (soil/water) SOIL

Lab Sample ID: 76496

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G5431

Level: (low/med) LOW

Date Received: 12/02/93

% Moisture: 22 decanted: (Y/N) N

Date Extracted: 12/10/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/04/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 16

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	3.75	53000	ABJN
2.	UNKNOWN	5.54	1300	J
3. 95-16-9	Benzothiazole	11.97	810	JN
4.	UNKNOWN PAH	22.28	190	J
5.	UNKNOWN ALKYL BENZOTHAZOLE	23.51	300	J
6.	UNKNOWN ALKYL BENZOTHAZOLE	23.61	470	J
7. 10-54-4500	Molecular Sulfur	23.79	720	JN
8.	UNKNOWN PAH	26.72	2400	J
9.	UNKNOWN	30.03	170	J
10.	UNKNOWN	31.95	340	J
11.	UNKNOWN HYDROCARBON	33.09	1300	J
12.	UNKNOWN	34.75	340	J
13.	UNKNOWN	37.18	510	J
14.	UNKNOWN	37.79	790	J
15.	UNKNOWN CHLORINATED HYDROCAR	38.59	960	J
16.	UNKNOWN	41.32	3000	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMP **DRAFT**

SS-5

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 803

SAS No.:

SDG No.: SS-4

Matrix: (soil/water) SOIL

Lab Sample ID: 76498

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G5435

Level: (low/med) LOW

Date Received: 12/02/93

% Moisture: 31 decanted: (Y/N) N

Date Extracted: 12/10/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/04/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.9

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	4.09	61000	ABJN
2.	UNKNOWN	5.49	1500	J
3.	UNKNOWN PAH	22.33	170	J
4.	UNKNOWN PAH	22.48	290	J
5.	UNKNOWN	23.29	140	J
6. 10-54-4500	Molecular Sulfur	23.80	140	JN
7.	UNKNOWN PAH	26.08	96	J
8.	UNKNOWN	26.76	140	J
9.	UNKNOWN	27.28	1700	J
10.	UNKNOWN PAH	28.00	120	J
11.	UNKNOWN	30.15	96	J
12.	UNKNOWN	31.10	2400	J
13.	UNKNOWN	33.76	890	J
14.	UNKNOWN PAH	35.57	410	J
15.	UNKNOWN PAH	38.92	340	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMP **DRAFT**

SS-8

Lab Name: E & E INC.

Contract:

Code: EANDE

Case No.: 803

SAS No.:

SDG No.: SS-4

Matrix: (soil/water) SOIL

Lab Sample ID: 76500

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G5437

Level: (low/med) LOW

Date Received: 12/02/93

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 12/10/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/04/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	4.26	86000	ABJN
2.	UNKNOWN	5.58	2000	J
3. 95-16-9	Benzothiazole	12.00	650	JN
4.	UNKNOWN	23.50	170	J
5.	UNKNOWN ALKYL BENZOTHAZOLE	23.88	1600	J
6.	UNKNOWN PAH	24.14	170	J
7.	UNKNOWN PAH	26.87	900	J
8.	UNKNOWN	27.31	4400	J
9.	UNKNOWN	30.19	1200	J
10.	UNKNOWN HYDROCARBON	30.34	150	J
11.	UNKNOWN	31.02	2100	J
12.	UNKNOWN	31.14	550	J
13.	UNKNOWN	31.39	3800	J
14.	UNKNOWN	31.54	570	J
15.	UNKNOWN HYDROCARBON	33.10	950	J
16.	UNKNOWN	33.73	1200	J
17.	UNKNOWN HYDROCARBON	33.95	780	J
18.	UNKNOWN HYDROCARBON	34.79	1500	J
19.	UNKNOWN	37.94	440	J
20.	UNKNOWN CHLORINATED HYDROCAR	38.64	880	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

SS-9

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 803

SAS No.:

SDG No.: SS-4

Matrix: (soil/water) SOIL

Lab Sample ID: 76502

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G5439

Level: (low/med) LOW

Date Received: 12/02/93

% Moisture: 16 decanted: (Y/N) N

Date Extracted: 12/10/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/04/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.8

Number TICs found: 16

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.11	400	J
2. 12-34-22	Aldol Condensation Product	3.93	77000	ABJN
3.	UNKNOWN	5.56	1500	BJ
4.	UNKNOWN	5.67	260	J
5.	UNKNOWN	23.46	140	J
6.	UNKNOWN OXY. PAH	25.43	79	J
7.	UNKNOWN PAH	27.00	240	J
8.	UNKNOWN PAH	30.35	79	J
9.	UNKNOWN	31.29	450	J
10.	UNKNOWN HYDROCARBON	33.11	450	J
11.	UNKNOWN OXY. HYDROCARBON	33.70	610	J
12.	UNKNOWN HYDROCARBON	33.95	180	J
13.	UNKNOWN HYDROCARBON	34.79	510	J
14.	UNKNOWN	36.81	200	J
15.	UNKNOWN	37.94	200	J
16.	UNKNOWN CHLORINATED HYDROCAR	38.62	400	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMP **DRAFT**

SS-12

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 803

SAS No.:

SDG No.: SS-4

Matrix: (soil/water) SOIL

Lab Sample ID: 76505

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G5486

Level: (low/med) LOW

Date Received: 12/02/93

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 12/10/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/05/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	3.82	100000	ABJN
2.	UNKNOWN	5.05	1800	BJ
3.	UNKNOWN	22.95	140	J
4.	UNKNOWN CARBOXYLIC ACID	23.12	180	J
5.	UNKNOWN	25.09	100	J
6.	UNKNOWN	25.37	120	J
7.	UNKNOWN	26.62	330	J
8.	UNKNOWN PAH	27.58	120	J
9.	UNKNOWN HYDROCARBON	30.01	100	J
10.	UNKNOWN HYDROCARBON	30.96	270	J
11.	UNKNOWN PAH	31.88	390	J
12.	UNKNOWN HYDROCARBON	32.77	570	J
13.	UNKNOWN HYDROCARBON	33.63	120	J
14.	UNKNOWN HYDROCARBON	33.94	100	J
15.	UNKNOWN HYDROCARBON	34.45	660	J
16.	UNKNOWN	36.03	250	J
17.	UNKNOWN	37.10	310	J
18.	UNKNOWN	37.39	230	J
19.	UNKNOWN CHLORINATED HYDROCAR	37.53	120	J
20.	UNKNOWN CHLORINATED HYDROCAR	38.17	700	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE **DRAFT**

SS-14

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 803

SAS No.:

SDG No.: SS-4

Matrix: (soil/water) SOIL

Lab Sample ID: 76506

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G5487

Level: (low/med) LOW

Date Received: 12/02/93

% Moisture: 26 decanted: (Y/N) N

Date Extracted: 12/10/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/05/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 9.0

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	3.65	99000	ABJN
2.	UNKNOWN	4.95	1800	BJ
3.	UNKNOWN HYDROCARBON	19.61	220	J
4.	UNKNOWN HYDROCARBON	20.98	130	J
5.	UNKNOWN HYDROCARBON	22.28	130	J
6.	UNKNOWN CARBOXYLIC ACID	23.11	110	J
7.	UNKNOWN	25.34	180	J
8.	UNKNOWN HYDROCARBON	26.96	160	J
9.	UNKNOWN	27.88	130	J
10.	UNKNOWN HYDROCARBON	29.04	160	J
11.	UNKNOWN HYDROCARBON	30.02	180	J
12.	UNKNOWN HYDROCARBON	30.96	270	J
13.	UNKNOWN HYDROCARBON	31.88	200	J
14.	UNKNOWN HYDROCARBON	32.76	270	J
15.	UNKNOWN	33.61	130	J
16.	UNKNOWN HYDROCARBON	34.44	130	J
17.	UNKNOWN	36.03	110	J
18.	UNKNOWN OXY. HYDROCARBON	36.80	160	J
19.	UNKNOWN CHLORINATED HYDROCAR	38.16	340	J
20.	UNKNOWN	40.57	380	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

SS-15

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 803

SAS No.:

SDG No.: SS-4

Matrix: (soil/water) SOIL

Lab Sample ID: 76507

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G5488

Level: (low/med) LOW

Date Received: 12/02/93

% Moisture: 32 decanted: (Y/N) N

Date Extracted: 12/10/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/05/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	3.68	46000	ABJN
2.	UNKNOWN	4.98	1300	BJ
3.	UNKNOWN	22.97	240	J
4.	UNKNOWN	23.14	370	J
5. 10-54-4500	Molecular Sulfur	23.65	200	JN
6.	UNKNOWN	26.64	780	J
7.	UNKNOWN CARBOXYLIC ACID	29.72	240	J
8.	UNKNOWN	30.51	340	J
9.	UNKNOWN CARBOXYLIC ACID	30.69	410	J
10.	UNKNOWN	31.64	850	J
11.	UNKNOWN HYDROCARBON	32.77	1000	J
12.	UNKNOWN HYDROCARBON	34.29	390	J
13.	UNKNOWN HYDROCARBON	34.46	1700	J
14.	UNKNOWN HYDROCARBON	36.04	510	J
15.	UNKNOWN	36.21	320	J
16.	UNKNOWN	36.82	390	J
17.	UNKNOWN	37.12	810	J
18.	UNKNOWN	37.41	410	J
19.	UNKNOWN CHLORINATED HYDROCAR	37.53	290	J
20.	UNKNOWN CHLORINATED HYDROCAR	38.18	1800	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE **DRAFT**

SS-16

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 803

SAS No.:

SDG No.: SS-4

Matrix: (soil/water) SOIL

Lab Sample ID: 76508

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G5498

Level: (low/med) LOW

Date Received: 12/02/93

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 12/10/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/06/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

CPC Cleanup: (Y/N) Y

pH: 7.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	3.41	75000	ABJN
2.	UNKNOWN	5.17	1400	BJ
3. 95-16-9	Benzothiazole	11.90	440	JN
4.	UNKNOWN	23.15	220	J
5.	UNKNOWN ALKYL BENZOTHAZOLE	23.35	750	J
6.	UNKNOWN	26.67	220	J
7.	UNKNOWN	26.85	1600	J
8.	UNKNOWN HYDROCARBON	30.32	600	J
9.	UNKNOWN HYDROCARBON	31.15	200	J
10.	UNKNOWN	31.84	270	J
11.	UNKNOWN HYDROCARBON	32.96	380	J
12.	UNKNOWN	33.59	130	J
13.	UNKNOWN	34.06	730	J
14.	UNKNOWN HYDROCARBON	34.65	510	J
15.	UNKNOWN HYDROCARBON	36.24	220	J
16.	UNKNOWN HYDROCARBON	36.41	150	J
17.	UNKNOWN	37.16	130	J
18.	UNKNOWN	37.33	180	J
19.	UNKNOWN	37.45	130	J
20.	UNKNOWN CHLORINATED HYDROCAR	38.43	350	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

TP-4

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 803

SAS No.:

SDG No.: SS-4

Matrix: (soil/water) SOIL

Lab Sample ID: 76497

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G5484

Level: (low/med) LOW

Date Received: 12/02/93

% Moisture: 34 decanted: (Y/N) N

Date Extracted: 12/10/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/05/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.1

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	3.73	83000	ABJN
2.	UNKNOWN	5.00	1500	BJ
3.	UNKNOWN	10.36	350	BJ
4. 95-16-9	Benzothiazole	11.73	1200	JN
5.	UNKNOWN HYDROCARBON	19.50	380	J
6.	PHENYLBENZOTHAZOLE ISOMER	22.99	500	J
7.	UNKNOWN ALKYL BENZOTHAZOLE	23.39	6500	J
8. 10-54-4500	Molecular Sulfur	23.56	3400	JN
9.	UNKNOWN	25.35	300	J
10.	UNKNOWN	26.50	1800	J
11.	UNKNOWN	26.77	9800	J
12.	UNKNOWN HYDROCARBON	26.97	700	J
13.	UNKNOWN HYDROCARBON	29.03	250	J
14.	UNKNOWN	29.70	330	J
15.	UNKNOWN	30.68	230	J
16.	UNKNOWN	34.60	280	J
17.	UNKNOWN	35.22	350	J
18.	UNKNOWN	36.21	280	J
19.	UNKNOWN	36.38	630	J
20.	UNKNOWN	37.41	880	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

TP-5

Name: E & E INC. Contract: _____
 Code: EANDE Case No.: 803 SAS No.: _____ SDG No.: SS-4
 Matrix: (soil/water) SOIL Lab Sample ID: 76499
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: G5436
 Level: (low/med) LOW Date Received: 12/02/93
 % Moisture: 25 decanted: (Y/N) N Date Extracted: 12/10/93
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/04/94
 Injection Volume: 2.0(uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 8.4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 13

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	3.96	69000	ABJN
2.	UNKNOWN	5.50	1600	J
3.	UNKNOWN HYDROCARBON	19.88	220	J
4.	UNKNOWN HYDROCARBON	21.26	180	J
5. 10-54-4500	Molecular Sulfur	24.14	24000	JN
6.	UNKNOWN HYDROCARBON	26.23	130	J
7.	UNKNOWN	27.23	270	J
8.	UNKNOWN	28.29	130	J
9.	UNKNOWN HYDROCARBON	30.40	200	J
10.	UNKNOWN	33.16	1000	J
11.	UNKNOWN	34.01	690	J
12.	UNKNOWN	34.15	1100	J
13.	UNKNOWN	34.83	1500	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

TP-8

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 803

SAS No.:

SDG No.: SS-4

Matrix: (soil/water) SOIL

Lab Sample ID: 76501

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G5506

Level: (low/med) LOW

Date Received: 12/02/93

% Moisture: 22 decanted: (Y/N) N

Date Extracted: 01/06/94

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/06/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	2.59	600	ABJN
2.	UNKNOWN HYDROCARBON	19.77	260	J
3.	UNKNOWN HYDROCARBON	21.14	170	J
4.	UNKNOWN	23.15	150	J
5. 10-54-4500	Molecular Sulfur	23.87	190	JN
6.	UNKNOWN PAH	26.41	110	J
7.	UNKNOWN	26.90	170	J
8.	UNKNOWN	27.17	110	J
9.	UNKNOWN	27.35	110	J
10.	UNKNOWN	27.79	130	J
11.	UNKNOWN	30.87	2100	BJ
12.	UNKNOWN	31.21	3600	BJ
13.	UNKNOWN	32.14	130	J
14.	UNKNOWN	33.00	300	J
15.	UNKNOWN	33.95	510	J
16.	UNKNOWN	34.63	470	J
17.	UNKNOWN	37.03	150	J
18.	UNKNOWN	37.64	190	J
19.	UNKNOWN PAH	37.74	170	J
20.	UNKNOWN PAH	37.86	210	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

TP-9

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 803

SAS No.:

SDG No.: SS-4

Matrix: (soil/water) SOIL

Lab Sample ID: 76503

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G5440

Level: (low/med) LOW

Date Received: 12/02/93

% Moisture: 30 decanted: (Y/N) N

Date Extracted: 12/10/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/04/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.6

Number TICs found: 17

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	3.78	69000	ABJN
2.	UNKNOWN	5.39	1300	BJ
3. 95-16-9	Benzothiazole	12.13	7600	JN
4.	BENZOTHAZOLONE ISOMER	19.60	280	J
5.	BENZOTHAZOLONE ISOMER & UNK	19.91	450	J
6.	BENZOTHAZOLONE ISOMER	20.32	1300	J
7.	UNKNOWN PAH	22.44	810	J
8. 10-54-4500	Molecular Sulfur	23.73	23000	JN
9.	UNKNOWN PAH & UNKNOWN HYDROC	26.23	550	J
10.	UNKNOWN PAH	27.36	21000	J
11.	UNKNOWN PAH	28.09	280	J
12.	UNKNOWN	28.71	360	J
13.	UNKNOWN PAH	30.15	330	J
14.	UNKNOWN	30.32	880	J
15.	UNKNOWN	32.25	330	J
16.	UNKNOWN	36.39	310	J
17.	UNKNOWN	43.31	430	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

TP-12

Lab Name: E & E INC.

Contract:

Code: EANDE

Case No.: 803

SAS No.:

SDG No.: SS-4

Matrix: (soil/water) SOIL

Lab Sample ID: 76504

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G5485

Level: (low/med) LOW

Date Received: 12/02/93

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 12/10/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/05/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 12

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	3.57	78000	ABJN
2.	UNKNOWN	4.91	1500	BJ
3.	UNKNOWN	11.27	320	J
4.	UNKNOWN PAH	21.93	110	J
5.	UNKNOWN PAH	22.15	130	J
6.	UNKNOWN OXY. PAH	22.93	230	J
7.	UNKNOWN	23.11	150	J
8. 10-54-4500	Molecular Sulfur	23.66	290	JN
9.	UNKNOWN	31.79	210	J
10.	UNKNOWN PAH	31.92	290	J
11.	UNKNOWN	32.76	570	J
12.	UNKNOWN	34.44	170	J

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE **DRAFT**

SS-10

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 811

SAS No.:

SDG No.: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76580

Sample wt/vol: 4.8 (g/mL) G

Lab File ID: D9918

Level: (low/med) LOW

Date Received: 12/03/93

% Moisture: not dec. 19

Date Analyzed: 12/08/93

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76-13-1	Freon-113	2.87	14	JN
2.	TERPENE ISOMER	23.07	24	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE **DRAFT**

SS-11

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 811

SAS No.:

SDG No.: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76582

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: D9939

Level: (low/med) LQW

Date Received: 12/03/93

Moisture: not dec. 23

Date Analyzed: 12/08/93

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 11-09-30	6-Methyl-5-hepten-2-one	22.90	130	JN

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

TP-10

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 811

SAS No.:

SDG No.: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76581

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: D9919

Level: (low/med) LOW

Date Received: 12/03/93

Moisture: not dec. 18

Date Analyzed: 12/08/93

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76-13-1	Freon-113	2.89	20	JN

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

SED-1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 811

SAS No.:

SDG No.: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76586

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6556

Level: (low/med) LOW

Date Received: 12/03/93

% Moisture: 36 decanted: (Y/N) N

Date Extracted: 12/13/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/06/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.87	62000	AJN
2.	UNKNOWN	7.42	1600	J
3.	UNKNOWN	7.73	210	J
4.	UNKNOWN	12.71	230	BJ
5.	UNKNOWN	13.91	160	J
6.	UNKNOWN	15.91	160	BJ
7.	UNKNOWN PAH	25.09	160	J
8.	UNKNOWN CARBOXYLIC ACID	25.87	160	J
9.	UNKNOWN HYDROCARBON	26.08	180	J
10.	UNKNOWN PAH	29.21	130	J
11.	UNKNOWN	29.75	180	J
12.	UNKNOWN PAH	30.99	130	J
13.	UNKNOWN	32.16	130	J
14.	DIPHENYLBENZENEDIAMINE ISOME	33.83	2000	J
15.	UNKNOWN	34.02	860	J
16.	UNKNOWN	34.18	3900	J
17.	UNKNOWN	34.50	860	J
18.	UNKNOWN PAH	35.46	420	J
19.	UNKNOWN PAH	37.58	440	J
20.	UNKNOWN	44.59	290	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO
DRAFT

SED-2

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 811

SAS No.:

SDG No.: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76587

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6724

Level: (low/med) LOW

Date Received: 12/03/93

% Moisture: 33 decanted: (Y/N) N

Date Extracted: 12/13/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/13/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Pr TICs found: 8

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.53	45000	AJN
2.	UNKNOWN	12.34	450	BJ
3.	UNKNOWN	13.32	270	J
4.	UNKNOWN	15.53	220	BJ
5.	UNKNOWN OXY. HYDROCARBON	28.66	220	J
6.	UNKNOWN OXY. HYDROCARBON	30.87	170	J
7.	UNKNOWN	34.27	150	J
8.	UNKNOWN	40.60	99	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE **DRAFT**

SED-3

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 811

SAS No.:

SDG No.: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76588

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6781

Level: (low/med) LOW

Date Received: 12/03/93

% Moisture: 29 decanted: (Y/N) N

Date Extracted: 12/13/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/17/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.77	700	J
2.	UNKNOWN	3.57	440	J
3. 12-34-22	Aldol Condensation Product	4.84	1500	AJN
4. 95-16-9	Benzothiazole	13.92	280	JN
5. 31-98-57	BETA-BHC	22.50	330	JN
6.	UNKNOWN PAH	24.81	140	J
7.	UNKNOWN	25.55	140	J
8.	UNKNOWN HYDROCARBON	28.32	260	J
9.	UNKNOWN	29.25	3300	J
10.	UNKNOWN HYDROCARBON	29.43	210	J
11.	UNKNOWN HYDROCARBON	31.56	280	J
12.	UNKNOWN	32.53	470	J
13.	DIPHENYLBENZENEDIAMINE ISOME	33.28	980	J
14.	UNKNOWN	33.63	2800	J
15.	UNKNOWN PAH	34.84	440	J
16.	UNKNOWN HYDROCARBON	35.35	840	J
17.	UNKNOWN	35.42	770	J
18.	UNKNOWN HYDROCARBON	37.06	490	J
19.	UNKNOWN	39.08	1600	J
20.	UNKNOWN CHLORINATED HYDROCAR	43.32	1700	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMP **DRAFT**

SS-10

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 811

SAS No.:

SDG No.: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76580

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6548

Level: (low/med) LOW

Date Received: 12/03/93

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 12/13/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/06/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	6.20	68000	AJN
2.	UNKNOWN	7.55	2300	J
3.	UNKNOWN	13.75	390	J
4.	UNKNOWN	21.56	490	J
5.	UNKNOWN HYDROCARBON	22.33	160	J
6.	UNKNOWN HYDROCARBON	25.10	180	J
7.	UNKNOWN CARBOXYLIC ACID	25.86	200	J
8.	UNKNOWN PAH	26.05	140	J
9.	UNKNOWN	27.39	310	J
10.	UNKNOWN	30.79	470	J
11.	UNKNOWN HYDROCARBON	33.02	140	J
12.	UNKNOWN	33.44	180	J
13.	UNKNOWN HYDROCARBON	33.98	350	J
14.	UNKNOWN HYDROCARBON	34.93	310	J
15.	UNKNOWN OXY. HYDROCARBON	35.28	370	J
16.	UNKNOWN HYDROCARBON	37.55	820	J
17.	UNKNOWN	42.05	2300	J
18.	UNKNOWN	42.78	270	J
19.	UNKNOWN CHLORINATED HYDROCAR	43.07	430	J
20.	UNKNOWN CHLORINATED HYDORCAR	44.54	2000	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE **DRAFT**

SS-11

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 811

SAS No.:

SDG No.: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76582

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6552

Level: (low/med) LOW

Date Received: 12/03/93

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 12/13/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/06/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	6.15	86000	AJN
2.	UNKNOWN	7.51	2200	J
3. 95-16-9	Benzothiazole	14.56	26000	JN
4.	METHYLBENZOTHAZOLE ISOMER	15.89	3200	J
5.	UNKNOWN	16.60	13000	J
6.	UNKNOWN	19.31	12000	J
7.	METHYLBENZOTHAZOLE ISOMER	20.06	13000	J
8.	METHYLTHIOBENZOTHAZOLE ISOMER	20.93	5000	J
9.	BENZOTHAZOLONE ISOMER	22.25	12000	J
10.	METHYLBENZOTHAZOLE ISOMER	24.84	4700	J
11.	UNKNOWN ALKYL BENZOTHAZOLE	26.11	210000	J
12.	UNKNOWN	30.04	88000	J
13.	UNKNOWN PAH	31.09	6900	J
14.	UNKNOWN	33.42	13000	J
15.	UNKNOWN	33.92	5600	J
16.	UNKNOWN	34.34	4500	J
17.	UNKNOWN	34.69	3400	J
18.	UNKNOWN	36.10	3700	J
19.	UNKNOWN	39.73	2600	J
20.	UNKNOWN	40.15	22000	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE **DRAFT**

SS-11DL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 811

SAS No.:

SDG No.: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76582DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6728

Level: (low/med) LOW

Date Received: 12/03/93

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 12/13/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/13/94

Injection Volume: 2.0(uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y

pH: 8.6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.08	6700	J
2. 12-34-22	Aldol Condensation Product	4.97	180000	AJN
3. 95-16-9	Benzothiazole	14.13	200000	JN
4.	METHYLBENZOTHAZOLE ISOMER	15.29	12000	J
5.	UNKNOWN	15.85	12000	J
6.	UNKNOWN	18.81	15000	J
7.	METHYLBENZOTHAZOLE ISOMER	19.52	26000	J
8.	METHYLTHIOBENZOTHAZOLE ISOMER	20.44	8200	J
9.	BENZOTHAZOLONE ISOMER	21.54	6500	J
10.	UNKNOWN	23.39	7300	J
11.	UNKNOWN ALKYL BENZOTHAZOLE	25.95	300000	J
12.	UNKNOWN	26.61	21000	J
13.	UNKNOWN	29.54	370000	J
14.	UNKNOWN	29.91	14000	J
15.	UNKNOWN	32.63	11000	J
16.	UNKNOWN	33.21	6700	J
17.	DIPHENYLBENZENEDIAMINE ISOMER	33.37	6900	J
18.	UNKNOWN	33.70	11000	J
19.	UNKNOWN	39.10	28000	J
20.	UNKNOWN	41.97	8600	J

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1P
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE DRAFT

SS-13

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 811

SAS No.:

SDG No.: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76584

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6554

Level: (low/med) LOW

Date Received: 12/03/93

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 12/13/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/06/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 19

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	6.11	84000	AJN
2.	UNKNOWN	7.36	84	J
3.	UNKNOWN	7.53	2900	J
4.	UNKNOWN	13.73	880	J
5.	UNKNOWN HYDROCARBON	22.35	150	J
6.	UNKNOWN HYDROCARBON	25.10	130	J
7.	UNKNOWN HYDROCARBON	27.61	110	J
8.	UNKNOWN HYDROCARBON	29.92	130	J
9.	UNKNOWN HYDROCARBON	30.99	110	J
10.	UNKNOWN HYDROCARBON	32.04	150	J
11.	UNKNOWN HYDROCARBON	33.03	170	J
12.	DIPHENYLBENZENEDIAMINE ISOME	33.83	170	J
13.	UNKNOWN HYDROCARBON	34.00	420	J
14.	UNKNOWN	34.16	360	J
15.	UNKNOWN	34.53	210	J
16.	UNKNOWN OXY. HYDROCARBON	35.28	250	J
17.	UNKNOWN PAH	35.45	150	J
18.	UNKNOWN	36.72	150	J
19.	UNKNOWN HYDROCARBON	37.57	440	J

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1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

SW-1

Lab Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 811 SAS No.: _____ SDG No.: SED-1

Matrix: (soil/water) WATER Lab Sample ID: 76589

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E6792

Level: (low/med) LOW Date Received: 12/03/93

% Moisture: decanted: (Y/N) Date Extracted: 12/14/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/18/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	34.54	4	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMP **DRAFT**

SW-2

Lab Name: E & E INC.

Contract:

Lab Code: EAND E

Case No.: 811

SAS No.:

SDG No.: SED-1

Matrix: (soil/water) WATER

Lab Sample ID: 76590

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E6793

Level: (low/med) LOW

Date Received: 12/03/93

% Moisture: decanted: (Y/N)

Date Extracted: 12/14/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/18/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 13

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	4.82	2	AJN
2.	UNKNOWN	7.30	3	J
3.	UNKNOWN	12.22	2	J
4.	UNKNOWN	12.78	4	J
5.	UNKNOWN	16.37	4	J
6.	UNKNOWN HYDROCARBON	29.42	2	J
7.	UNKNOWN HYDROCARBON	30.51	4	J
8.	UNKNOWN HYDROCARBON	31.55	5	J
9.	UNKNOWN HYDROCARBON	32.54	4	J
10.	UNKNOWN HYDROCARBON	33.51	6	J
11.	UNKNOWN HYDROCARBON	34.44	4	J
12.	UNKNOWN HYDROCARBON	35.33	4	J
13.	UNKNOWN HYDROCARBON	36.20	2	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMP **DRAFT**

SW-3

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 811

SAS No.:

SDG No.: SED-1

Matrix: (soil/water) WATER

Lab Sample ID: 76591

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E6796

Level: (low/med) LOW

Date Received: 12/03/93

% Moisture: decanted: (Y/N)

Date Extracted: 12/14/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/18/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 7.7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 6

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.05	2	J
2.	UNKNOWN	3.84	4	J
3.	UNKNOWN	3.92	15	J
4.	UNKNOWN	12.77	4	BJ
5.	UNKNOWN	16.38	5	BJ
6.	UNKNOWN	34.53	3	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMP **DRAFT**

TP-10

Lab Name: E & E-INC.

Contract:

Lab Code: EANDE

Case No.: 811

SAS No.:

SDG No.: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76581

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6549

Level: (low/med) LOW

Date Received: 12/03/93

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 12/13/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/06/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.8

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	6.12	77000	AJN
2.	UNKNOWN	7.52	2800	J
3.	UNKNOWN	7.62	180	J
4.	UNKNOWN HYDROCARBON	22.34	300	J
5.	UNKNOWN HYDROCARBON	25.09	280	J
6.	UNKNOWN PAH	25.32	180	J
7.	UNKNOWN	26.04	160	J
8.	UNKNOWN PAH	27.60	140	J
9.	UNKNOWN OXY. PAH	28.32	140	J
10.	UNKNOWN PAH	28.95	160	J
11.	UNKNOWN PAH	29.17	120	J
12.	UNKNOWN HYDROCARBON	30.98	160	J
13.	UNKNOWN HYDROCARBON	32.03	180	J
14.	UNKNOWN HYDROCARBON	33.98	220	J
15.	UNKNOWN	34.93	340	J
16.	UNKNOWN OXY. HYDROCARBON	35.26	380	J
17.	UNKNOWN PAH	35.41	360	J
18.	UNKNOWN HYDROCARBON	37.54	280	J
19.	UNKNOWN PAH	42.78	220	J
20.	UNKNOWN CHLORINATED HYDROCAR	44.53	280	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE **DRAFT**

TP-11

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 811

SAS No.:

SDG No.: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76583

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6553

Level: (low/med) LOW

Date Received: 12/03/93

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 12/13/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/06/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.06	810	J
2.	UNKNOWN	4.63	760	J
3. 12-34-22	Aldol Condensation Product	6.11	85000	AJN
4.	UNKNOWN	6.72	310	J
5.	UNKNOWN	7.52	3500	J
6. 95-16-9	Benzothiazole	14.39	900	JN
7.	UNKNOWN PAH	25.09	330	J
8.	UNKNOWN	25.90	280	J
9.	UNKNOWN ALKYL BENZOTHAZOLE	26.02	1400	J
10. 10-54-4500	Molecular Sulfur	27.08	260	JN
11.	UNKNOWN OXY. PAH	28.33	240	J
12.	UNKNOWN PAH	28.96	240	J
13.	UNKNOWN	29.80	2800	J
14.	UNKNOWN HYDROCARBON	29.91	240	J
15.	BENZONAPHTHOTHIOPHENE ISOMER	30.85	280	J
16.	UNKNOWN PAH	30.98	200	J
17.	UNKNOWN	33.26	170	J
18.	UNKNOWN PAH	35.45	1100	J
19.	UNKNOWN	37.57	460	J
20.	UNKNOWN CHLORINATED HYDROCAR	44.60	870	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO. **DRAFT**

TP-13

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 811

SAS No.:

SDG No.: SED-1

Matrix: (soil/water) SOIL

Lab Sample ID: 76585

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E6555

Level: (low/med) LOW

Date Received: 12/03/93

Moisture: 23 decanted: (Y/N) N

Date Extracted: 12/13/93

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 01/06/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.9

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.92	220	J
2.	UNKNOWN	3.08	860	J
3.	UNKNOWN	3.98	190	J
4.	UNKNOWN	4.69	1000	J
5. 12-34-22	Aldol Condensation Product	6.10	88000	AJN
6.	UNKNOWN	6.76	260	J
7.	UNKNOWN	7.55	3400	J
8.	UNKNOWN	12.71	170	BJ
9.	UNKNOWN	13.75	910	J
10.	UNKNOWN HYDROCARBON	22.35	170	J
11.	UNKNOWN	25.10	260	J
12.	UNKNOWN PAH	25.35	280	J
13.	UNKNOWN CARBOXYLIC ACID	25.88	170	J
14.	UNKNOWN	26.07	170	J
15.	UNKNOWN PAH	29.20	150	J
16.	UNKNOWN OXY. HYDROCARBON	35.29	650	J
17.	UNKNOWN PAH	35.46	520	J
18.	UNKNOWN HYDROCARBON	37.58	520	J
19.	UNKNOWN	43.13	410	J
20.	UNKNOWN CHLORINATED HYDROCAR	44.59	1400	J

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APPENDIX C

PA SCORE

[illegible]

Investigator:
Agency/Organization: E&E ENGINEERING, P.C.
Street Address: 368 PLEASANTVIEW DR.
City/State: LANCASTER, NY

Date: 2/22/94

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

Page: 1

WASTE CHARACTERISTICS

Waste Characteristics (WC) Calculations:

1 FILLED AREA	Landfill	Ref: 1	WQ value	maximum
Area	4.15E+01 acres		5.32E+02	5.32E+02

THE FILLED AREA WHICH CONSTITUTES THE 64TH STREET-NORTH SITE IS
ASSUMED TO BE APPROXIMATELY 41.5 ACRES IN SIZE.
Ref: 1

** Only First WC Page Is Printed ** | Waste Characteristics Score: WC = 32

Ground Water Pathway Criteria List
Suspected Release

Are sources poorly contained? (y/n/u)	Y
Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	U
Is precipitation heavy? (y/n/u)	N
Is the infiltration rate high? (y/n/u)	Y
Is the site located in an area of karst terrain? (y/n)	N
Is the subsurface highly permeable or conductive? (y/n/u)	U
Is drinking water drawn from a shallow aquifer? (y/n/u)	N
Are suspected contaminants highly mobile in ground water? (y/n/u)	N
Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u)	N
Other criteria? (y/n)	N

SUSPECTED RELEASE? (y/n) Y

Summarize the rationale for Suspected Release:

APPLICABLE UPGRADIENT AND DOWNGRAIDENT MONITORING WELL
INFORMATION DOES NOT EXIST FOR THIS SITE. HOWEVER, WASTES WERE
DEPOSITED IN DRAINAGE SWALES AND A WETLAND EXISTS ON-SITE IMPLYING A
SHALLOW WATER TABLE. DEPTH TO GROUNDWATER IS REPORTEDLY 5-10 FEET
BELOW GROUND SURFACE. TEST PITS DUG ON-SITE ENCOUNTERED FILL
MATERIALS DEPOSITED BELOW THE WATER TABLE.

Ref: 1,5

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

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Ground Water Pathway Criteria List
Primary Targets

Is any drinking water well nearby? (y/n/u)	N
Has any nearby drinking water well been closed? (y/n/u)	N
Has any nearby drinking water well user reported foul-testing or foul-smelling water? (y/n/u)	N
Does any nearby well have a large drawdown/high production rate? (y/n/u)	N
Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance? (y/n/u)	N
Does analytical or circumstantial evidence suggest contamination at a drinking water well? (y/n/u)	N
Does any drinking water well warrant sampling? (y/n/u)	N
Other criteria? (y/n)	N

PRIMARY TARGET(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Targets:

THERE ARE NO DRINKING WATER WELLS WITHIN THE TARGET DISTANCE LIMIT.

Ref: 1

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

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GROUND WATER PATHWAY SCORESHEETS

Pathway Characteristics

			Ref.
Do you suspect a release? (y/n)	Yes		
Is the site located in karst terrain? (y/n)	No		
Depth to aquifer (feet):	0		
Distance to the nearest drinking water well (feet):	0		
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550		
2. NO SUSPECTED RELEASE		0	
LR =	550	0	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) N	0	0	
5. NEAREST WELL	0	0	
6. WELLHEAD PROTECTION AREA None within 4 Miles	0	0	
7. RESOURCES	5	0	
T =	5	0	

WASTE CHARACTERISTICS

WC = 32 0

GROUND WATER PATHWAY SCORE:

1

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

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Ground Water Target Populations

Primary Target Population Drinking Water Well ID	Dist. (miles)	Population Served	Reference	Value
None				
*** Note : Maximum of 5 Wells Are Printed ***				Total

Secondary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	0	1	0
Greater than 1/4 to 1/2 mile	0	1	0
Greater than 1/2 to 1 mile	0	1	0
Greater than 1 to 2 miles	0	1	0
Greater than 2 to 3 miles	0	1	0
Greater than 3 to 4 miles	0	1	0
Total			0

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

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Apportionment Documentation for a Blended System

[Empty rectangular box for documentation]

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64TH STREET-NORTH SITE - 09/14/95

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Surface Water Pathway Criteria List
Suspected Release

Is surface water nearby? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	U
Is the drainage area large? (y/n/u)	N
Is rainfall heavy? (y/n/u)	N
Is the infiltration rate low? (y/n/u)	N
Are sources poorly contained or prone to runoff or flooding? (y/n/u)	Y
Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y/n/u)	N
Is vegetation stressed along the probable runoff path? (y/n/u)	N
Are sediments or water unnaturally discolored? (y/n/u)	U
Is wildlife unnaturally absent? (y/n/u)	N
Has deposition of waste into surface water been observed? (y/n/u)	U
Is ground water discharge to surface water likely? (y/n/u)	U
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u)	Y
Other criteria? (y/n) N	

SUSPECTED RELEASE? (y/n) Y

Summarize the rationale for Suspected Release:

THERE IS A NYSDEC REGULATED WETLAND LOCATED ON-SITE. SURFACE WATER AND SEDIMENT SAMPLES COLLECTED FROM THE WETLAND SHOW ELEVATED LEVELS OF SOME CONTAMINANTS. ALSO, IF SITE RUNOFF WERE TO ENTER THE SEWER SYSTEM, CONTAMINANTS MAY POSSIBLY REACH THE NIAGARA RIVER APPROXIMATELY 1-MILE FROM THE SITE.

Ref: 1,2,3,8

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

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Surface Water Pathway Criteria List
Primary Targets

Is any target nearby? (y/n/u) If yes: Y
 Y Drinking water intake
 Y Fishery
 Y Sensitive environment

Has any intake, fishery, or recreational area been closed? (y/n/u) N

Does analytical or circumstantial evidence suggest surface water
 contamination at or downstream of a target? (y/n/u) Y

Does any target warrant sampling? (y/n/u) If yes: Y
 N Drinking water intake
 N Fishery
 Y Sensitive environment

Other criteria? (y/n) N

PRIMARY INTAKE(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Intakes:

THERE ARE NO DRINKING WATER INTAKES WITHIN THE TARGET DISTANCE LIMIT WHICH ARE SUSPECTED TO HAVE BEEN AFFECTED BY THE SITE. DRINKING WATER INTAKES ARE LOCATED IN THE NIAGARA RIVER APPROXIMATELY 6 STREAM MILES DOWNSTREAM OF THE SITE. THE POPULATION SERVED IS APPROXIMATELY 62000. THERE IS NO DEFINED OVERLAND MIGRATION ROUTE FOR CONTAMINANTS TO FOLLOW FROM THE SITE TO THE NIAGARA RIVER, HOWEVER, CONTAMINANTS MAY ENTER THE SEWER SYSTEM AND ENENTUALLY BE DISCHARGED TO THE RIVER.

Ref: 1,2,3
 continued -----

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

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continued ----------
Other criteria? (y/n) N-----
PRIMARY FISHERY(IES) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Fisheries:

THE NIAGARA RIVER IS A MAJOR SPORT FISHERY. THERE IS NO DOCUMENTATION TO SUGGEST THAT THE FISHERY HAS BEEN EFFECTED BY THE SITE.

Ref: 1

Other criteria? (y/n) N-----
PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n) Y

Summarize the rationale for Primary Sensitive Environments:

THERE IS A NYSDEC TW-3 REGULATED SEASONAL, SCRUB/SHRUB BROAD-LEAVED DECIDUOUS WETLAND LOCATED ON-SITE. SURFACE WATER AND SEDIMENT SAMPLES COLLECTED ON-SITE SHOW ELEVATED LEVELS OF SOME CONTAMINANTS INCLUDING MERCURY AND PCB'S.

Ref: 6, 8

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

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SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics

			Ref.
Do you suspect a release? (y/n)			Yes
Distance to surface water (feet):			0
Flood frequency (years):			>500
What is the downstream distance (miles) to:			
a. the nearest drinking water intake?			6.0
b. the nearest fishery?			1.0
c. the nearest sensitive environment?			0.0
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550		
2. NO SUSPECTED RELEASE		0	
LR =	550	0	

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64TH STREET-NORTH SITE - 09/14/95

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Drinking Water Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake.			
4. PRIMARY TARGET POPULATION 0 person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	1	0	
6. NEAREST INTAKE	0	0	
7. RESOURCES	5	0	
T =	6	0	

Drinking Water Threat Target Populations

Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Value
1 CITY OF N.F.	N	>10000 cfs	62000	7	0
Total Primary Target Population Value					0
Total Secondary Target Population Value					1

*** Note : Maximum of 6 Intakes Are Printed ***

PA-Score 2.1 Scoresheets
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portionment Documentation for a Blended System

PA-Score 2.1 Scoresheets
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Human Food Chain Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	0		
10. SECONDARY FISHERIES	210	0	
T =	210	0	

Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 NIAGARA RIVER	N	>10000 cfs	1	12
Total Primary Fisheries Value				0
Total Secondary Fisheries Value				210

*** Note : Maximum of 6 Fisheries Are Printed ***

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

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Environmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	300		
13. SECONDARY SENSITIVE ENVIRONS.	0	0	
T =	300	0	

Environmental Threat Targets

Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 WETLAND TW-3	Y	primary sens. envir.	6	300
Total Primary Sensitive Environments Value				300
Total Secondary Sensitive Environments Value				0
*** Note: Maximum of 6 Sensitive Environments Are Printed ***				

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

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Surface Water Pathway Threat Scores

Threat	Likelihood of Release (LR) Score	Targets (T) Score	Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	550	6	32	1
Human Food Chain	550	210	32	45
Environmental	550	300	32	60
SURFACE WATER PATHWAY SCORE:				100

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64TH STREET-NORTH SITE - 09/14/95

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Soil Exposure Pathway Criteria List
Resident Population

Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination? (y/n/u)	Y
Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator? (y/n/u)	U
Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities? (y/n/u)	Y
Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems? (y/n/u)	N
Does any neighboring property warrant sampling? (y/n/u)	Y
Other criteria? (y/n)	N

RESIDENT POPULATION IDENTIFIED? (y/n) Y

Summarize the rationale for Resident Population:

THERE ARE AN ESTIMATED 80 RESIDENTS WHICH ARE BELIEVED TO LIVE ON OR WITHIN 200 FEET OF THE SITE. 20 CHILDREN ARE ASSUMED TO ATTEND THE DAYCARE FACILITY WHICH IS ALSO BELIEVED TO BE ON OR WITHIN 200 FEET OF THE SITE. THERE ARE SEVERAL BUSINESSES LOCATED ON-SITE WITH AN ESTIMATED TOTAL WORKFORCE OF LESS THAN 100 PEOPLE.

Ref: 1,2,3,8

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

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SOIL EXPOSURE PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do any people live on or within 200 ft of areas of suspected contamination? (y/n)	Yes	2,8
Do any people attend school or daycare on or within 200 ft of areas of suspected contamination? (y/n)	Yes	2,8
Is the facility active? (y/n):	Yes	1

LIKELIHOOD OF EXPOSURE	Suspected Contamination	References
1. SUSPECTED CONTAMINATION LE =	550	

Targets

2. RESIDENT POPULATION 80 resident(s) 20 school/daycare student(s)	0	
3. RESIDENT INDIVIDUAL	0	
4. WORKERS 1 - 100	0	1
5. TERRES. SENSITIVE ENVIRONMENTS	0	
6. RESOURCES	0	
T =	0	

WASTE CHARACTERISTICS

WC = 32

RESIDENT POPULATION THREAT SCORE: 100

NEARBY POPULATION THREAT SCORE: 1

Population Within 1 Mile: 1 - 10,000

SOIL EXPOSURE PATHWAY SCORE: 100

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

Page: 18

Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
1 NONE	6	
Total Terrestrial Sensitive Environments Value		
*** Note : Maximum of 7 Sensitive Environments Are Printed ***		

Air Pathway Criteria List
Suspected Release

Are odors currently reported? (y/n/u)	N
Has release of a hazardous substance to the air been directly observed? (y/n/u)	N
Are there reports of adverse health effects (e.g., headaches, nausea, dizziness) potentially resulting from migration of hazardous substances through the air? (y/n/u)	Y
Does analytical/circumstantial evidence suggest release to air? (y/n/u)	U
Other criteria? (y/n)	N

SUSPECTED RELEASE? (y/n) N

Summarize the rationale for Suspected Release:

THERE IS NO DOCUMENTATION OF A RELEASE OF HAZARDOUS SUBSTANCES VIA THE AIR ROUTE. A RESIDENT IN THE AREA, MRS. MARTHA REED, HAS REPORTED THAT MEMBERS OF HER FAMILY HAVE SUFFERED HEALTH PROBLEMS DUE TO PAST LANDFILLING ACTIVITIES AT THE SITE. IT IS NOT KNOWN WHETHER THESE PROBLEMS ARE RELATED TO RELEASES OF HAZARDOUS SUBSTANCES THROUGH THE AIR OR THROUGH DIRECT CONTACT WITH HAZARDOUS MATERIALS.

Ref: 1

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

Page: 20

AIR PATHWAY SCORESHEETS

Pathway Characteristics

			Ref.
Do you suspect a release? (y/n)			No
Distance to the nearest individual (feet):			0 1
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		500	
LR =	0	500	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION	0	28	
5. NEAREST INDIVIDUAL	0	1	
6. PRIMARY SENSITIVE ENVIRONS.	0		
7. SECONDARY SENSITIVE ENVIRONS.	0	2	
8. RESOURCES	0	5	
T =	0	36	

WASTE CHARACTERISTICS

WC =	0	32
------	---	----

AIR PATHWAY SCORE:

7

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

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Air Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	0		0
Greater than 0 to 1/4 mile	0		0
Greater than 1/4 to 1/2 mile	0		0
Greater than 1/2 to 1 mile	5902	1	8
Greater than 1 to 2 miles	30000	1	8
Greater than 2 to 3 miles	36000	1	12
Greater than 3 to 4 miles	0		0
Total Secondary Population Value			28

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

Page: 22

Air Pathway Primary Sensitive Environments

Sensitive Environment Name	Reference	Value
None		
Total Primary Sensitive Environments Value		

*** Note : Maximum of 7 Sensitive Environments Are Printed***

Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Distance	Reference	Value
1 WETLAND TW-3	onsite	6	2.5
Total Secondary Sensitive Environments Value			2

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

Page: 23

SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	1
SURFACE WATER PATHWAY SCORE:	100
SOIL EXPOSURE PATHWAY SCORE:	100
AIR PATHWAY SCORE:	7
SITE SCORE:	71

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

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SUMMARY

1. Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water? No

If yes, identify the well(s).

If yes, how many people are served by the threatened well(s)? 0

2. Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water?
- | | |
|--|----|
| A. Drinking water intake | No |
| B. Fishery | No |
| C. Sensitive environment (wetland, critical habitat, others) | No |

If yes, identity the target(s).

3. Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility? No

If yes, identify the properties and estimate the associated population(s)

4. Are there public health concerns at this site that are not addressed by PA scoring considerations? No

If yes, explain:

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

Page: 25

REFERENCE LIST

1. ECOLOGY AND ENVIRONMENT ENGINEERING, P.C., 1992, ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK, PRELIMINARY SITE ASSESSMENT, TASK 1, 64TH STREET-NORTH SITE
2. USGS, 1980, 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE: TONAWANDA WEST, NY.
3. USGS, 1980, 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE: NIAGARA FALLS, NY-ONTARIO.
4. FEDERAL EMERGENCY MANAGEMENT AGENCY, 1990, FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 360506 0003C
5. ECOLOGY AND ENVIRONMENT ENGINEERING, P.C., 1993, SITE LOG BOOK FOR TEST PIT SAMPLING AT THE 64TH ST.-NORTH SITE
6. SPANN, G., 1993, NYSDEC FISH AND WILDLIFE TECHNICIAN, LETTER TO CHAD EICH, ECOLOGY AND ENVIRONMENT, REGARDING SEARCH OF SIGNIFICANT HABITAT, NATURAL HERITAGE, AND NYS FRESHWATER WETLAND MAPS
7. COLEMAN, J., 1993, NIAGARA COUNTY WATER AUTHORITY, PERSONAL COMMUNICATION WITH CHAD EICH, ECOLOGY AND ENVIRONMENT
8. ANALYTICAL RESULTS FOR SOIL, SEDIMENT AND SURFACE WATER SAMPLES COLLECTED FROM THE 64TH ST.-NORTH SITE, 12/93

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

Page: 1

OMB Approval Number: 2050-0095
Approved for Use Through: 4/95

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM				IDENTIFICATION	
				State: NY	CERCLIS Number:
				CERCLIS Discovery Date:	
1. General Site Information					
Name: 64TH STREET-NORTH SITE			Street Address: NIAGARA FALLS BLVD.		
City: NIAGARA FALLS	State: NY	Zip Code: 14302	County: NIAGARA	Co. Code: 063	Cong. Dist.: 33
Latitude: 43 5' 32.0"		Longitude: 78 59' 29.0"	Approx. Area of Site: 85 acres	Status of Site: Inactive	
2. Owner/Operator Information					
Owner: MULTIPLE			Operator:		
Street Address:			Street Address:		
City:			City:		
State:	Zip Code:	Telephone:	State:	Zip Code:	Telephone:
Type of Ownership: Private			How Initially Identified: State/Local Program		

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

Page: 2

POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

IDENTIFICATION

State: NY CERCLIS Number:

CERCLIS Discovery Date:

3. Site Evaluator Information

Name of Evaluator: Agency/Organization: E&E ENGINEERING, P.C. Date Prepared: 2/22/94

Street Address: 368 PLEASANTVIEW DR. City: LANCASTER State: NY

Name of EPA or State Agency Contact: VALERIE WOODWARD Telephone: 518/457-9538

Street Address: 50 WOLF ROAD City: ALBANY State: NY

4. Site Disposition (for EPA use only)

Emergency
Response/Removal
Assessment
Recommendation: NoCERCLIS
Recommendation:
Lower Priority SI

Signature:

Name:

Date:

Date:

Position:

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

Page: 3

POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

IDENTIFICATION

State: NY CERCLIS Number:

CERCLIS Discovery Date:

5. General Site Characteristics

Predominant Land Uses Within
1 Mile of Site:
Industrial
Commercial
Residential

Site Setting:
Suburban

Years of Operation:
Beginning Year: 1930
Ending Year: 1958

Type of Site Operations:
Municipal Landfill
Other Landfill

Waste Generated:
Offsite

Waste Deposition Authorized
By: Former Owner

Waste Accessible to the Public
Yes

Distance to Nearest Dwelling,
School, or Workplace:
0 Feet

6. Waste Characteristics Information

Source Type Quantity Tier
Landfill 4.15e+01 acres A

General Types of Waste:
Metals
Organics
Construction/Demolition Waste
Municipal Waste

Physical State of Waste as Deposited
Solid
Powder

Tier Legend

C = Constituent W = Wastestream
V = Volume A = Area

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

Page: 4

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM		IDENTIFICATION	
		State: NY	CERCLIS Number:
		CERCLIS Discovery Date:	
7. Ground Water Pathway			
Is Ground Water Used for Drinking Water Within 4 Miles: No	Is There a Suspected Release to Ground Water: Yes	List Secondary Target Population Served by Ground Water Withdrawn From:	
Type of Ground Water Wells Within 4 Miles: None	Have Primary Target Drinking Water Wells Been Identified: No	0 - 1/4 Mile	0
		>1/4 - 1/2 Mile	0
		>1/2 - 1 Mile	0
Depth to Shallowest Aquifer: 0 Feet		>1 - 2 Miles	0
		>2 - 3 Miles	0
Karst Terrain/Aquifer Present: No	Nearest Designated Wellhead Protection Area: None within 4 Miles	>3 - 4 Miles	0
		Total	0

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

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POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

IDENTIFICATION

State: NY CERCLIS Number:

CERCLIS Discovery Date:

8. Surface Water Pathway

Part 1 of 4

Type of Surface Water Draining
Site and 15 Miles Downstream:

Other:

WETLAND ONSITE

Shortest Overland Distance From Any
Source to Surface Water:

0 Feet

0.0 Miles

Is there a Suspected Release to
Surface Water: YesSite is Located in:
> 500 yr floodplain

8. Surface Water Pathway

Part 2 of 4

Drinking Water Intakes Along the Surface Water Migration Path: Yes

Have Primary Target Drinking Water Intakes Been Identified: No

Secondary Target Drinking Water Intakes:

Name	Water Body/Flow(cfs)	Population Served
CITY OF N.F.	large river/ >10000	62000
	Total Within 15 Miles:	62000

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

Page: 6

POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

IDENTIFICATION

State: | CERCLIS Number:
NY |

CERCLIS Discovery Date:

8. Surface Water Pathway

Part 3 of 4

Fisheries Located Along the Surface Water Migration Path: Yes

Have Primary Target Fisheries Been Identified: No

Secondary Target Fisheries:

Fishery Name	Water Body Type/Flow(cfs)
NIAGARA RIVER	large river/ >10000

8. Surface Water Pathway

Part 4 of 4

Wetlands Located Along the Surface Water Migration Path? (y/n) Yes

Have Primary Target Wetlands Been Identified? (y/n) No

Secondary Target Wetlands:

None

Other Sensitive Environments Along the Surface Water Migration Path: Yes

Have Primary Target Sensitive Environments Been Identified: Yes

Secondary Target Sensitive Environments:

None

PA-Score 2.1 Scoresheets
64TH STREET-NORTH SITE - 09/14/95

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POTENTIAL HAZARDOUS

WASTE SITE

PRELIMINARY ASSESSMENT FORM

IDENTIFICATION

State:	CERCLIS Number:
NY	

CERCLIS Discovery Date:

9. Soil Exposure Pathway

Are People Occupying Residences or
Attending School or Daycare on or
Within 200 Feet of Areas of Known
or Suspected Contamination: Yes
Total Resident Population: 100

Number of Workers Onsite: 1 - 100

Have Terrestrial Sensitive Environments Been Identified on or Within
200 Feet of Areas of Known or Suspected Contamination: Yes

Terrestrial Sensitive Environments:

Critical habitat for Federally designated endang/threat species

10. Air Pathway

Total Population on or Within:	Is There a Suspected Release to Air: No
Onsite 0	
0 - 1/4 Mile 0	Wetlands Located
>1/4 - 1/2 Mile 0	Within 4 Miles of the Site: Yes
>1/2 - 1 Mile 5902	
>1 - 2 Miles 30000	Other Sensitive Environments Located
>2 - 3 Miles 36000	Within 4 Miles of the Site: No
>3 - 4 Miles 0	
Total 71902	

Sensitive Environments Within 1/2 Mile of the Site:

Distance	Sensitive Environment Type/Wetlands Area(acres)
Onsite	Wetlands (1 to 50 acres)

1	Introduction
2	Background
3	Objectives
4	Methodology
5	Results
6	Discussion
7	Conclusion
8	References
9	Appendix
10	Index
11	Glossary
12	Abbreviations
13	Footnotes
14	Endnotes
15	Supplementary Material
16	References
17	Appendix
18	Index
19	Glossary
20	Abbreviations
21	Footnotes
22	Endnotes
23	Supplementary Material
24	References
25	Appendix
26	Index
27	Glossary
28	Abbreviations
29	Footnotes
30	Endnotes
31	Supplementary Material
32	References
33	Appendix
34	Index
35	Glossary
36	Abbreviations
37	Footnotes
38	Endnotes
39	Supplementary Material
40	References
41	Appendix
42	Index
43	Glossary
44	Abbreviations
45	Footnotes
46	Endnotes
47	Supplementary Material
48	References
49	Appendix
50	Index
51	Glossary
52	Abbreviations
53	Footnotes
54	Endnotes
55	Supplementary Material
56	References
57	Appendix
58	Index
59	Glossary
60	Abbreviations
61	Footnotes
62	Endnotes
63	Supplementary Material
64	References
65	Appendix
66	Index
67	Glossary
68	Abbreviations
69	Footnotes
70	Endnotes
71	Supplementary Material
72	References
73	Appendix
74	Index
75	Glossary
76	Abbreviations
77	Footnotes
78	Endnotes
79	Supplementary Material
80	References
81	Appendix
82	Index
83	Glossary
84	Abbreviations
85	Footnotes
86	Endnotes
87	Supplementary Material
88	References
89	Appendix
90	Index
91	Glossary
92	Abbreviations
93	Footnotes
94	Endnotes
95	Supplementary Material
96	References
97	Appendix
98	Index
99	Glossary
100	Abbreviations

APPENDIX D

COPIES OF PERTINENT RECORDS

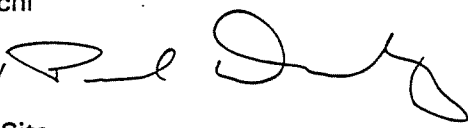
<u>Reference</u>	<u>Page</u>
NCHD 1993	D-3
NCHD 1988a	D-4
NCHD 1988b	D-13
NUS 1986	D-23
Reed 1985	D-57
Woodward-Clyde	D-62
NYSDEC 1994	D-77

MEMORANDUM

NIAGARA COUNTY HEALTH DEPARTMENT

DATE: May 13, 1993

TO: Mr. Peter Buechi

FROM: Mr. Paul Dicky 

SUBJECT: Kozdranski Site
Town of Wheatfield
(Unlisted Site)

A file review of the above site was recently made as a result of the submission of a General Development Plan - Summit Park Wheatfield Properties Company. The plan shows residential development planned adjacent to the Kozdranski site on the south, west, and north sides.

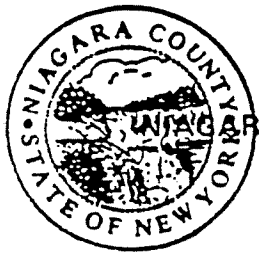
This department has rated this site as one which has high exposure potential to the public as there is no access control and industrial wastes are visible across a large surface area. Planned residential housing adjacent to exposed industrial waste might create an unacceptable exposure hazard.

Our primary concern with this site is the apparent tie it has to the former Walter Kozdranski Company which has been implicated as a hauler of hazardous waste to sites such as Forest Glen and vacant land adjacent to 1865 Connecting Road - Site #932103. During the investigation of Site 932103, we have learned through depositions of Kozdranski employees that Goodyear wastes were hauled to the Kozdranski site area. We also find some similarity in physical properties of some of the observed wastes at both sites. I have discussed the possibilities of similar waste streams with Mr. Glen May and noted some correlation of observed chemistry. However, the driving chemicals of concern at Site 932103 (aniline, diphenylamine, 2-mercaptobenzothiazole, benzothiazole, and phenothiazine) have not been analyzed for at the Kozdranski site as these constituents are not part of a routine request for analysis. Apparently, an indication that these parameters might be present is the presence of N-nitrosodiphenylamine, which was detected at the Kozdranski Site.

Therefore, due to the information we have learned at Site 932103, and the fact that development is proposed to abut three sides of the Kozdranski Site, and certain parameters which could classify the site as a listed inactive hazardous waste site have not been analyzed, this department requests that investigations be reopened at the Kozdranski Site as soon as possible.

Please call me if additional information is required from this department.

cc: Mr. James J. Devald, P.E.
Mr. Ronald Gwozdek, P.E.
Mr. A. Wakeman, NYSDOH



NIAGARA COUNTY

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

February 23, 1988

RECEIVED

MAR 01 1988

BUREAU OF ENVIRONMENTAL
EXPOSURE INVESTIGATION

932085A

E S Engineering Science
Two Flint Hill
10521 Rosehaven Street
Fairfax, VA 22030-2899

Attention: Ms. Cathy Bosma

Dear Ms. Bosma:

The following is a compilation of the information you requested regarding the 64th Street-North Site:

1) Historical information

In response to your request for historical information and documentation of our 1985 investigation in this area, we have compiled a summary of our actions and conclusions. We feel this will suffice for your purposes. It is noted that the entire file contains hundreds of pages with useful information scattered throughout.

During 1985 this department conducted an extensive historical investigation into reports of former waste disposal at a number of areas in the LaSalle area of Niagara Falls including the 64th Street-North Site. This investigation included study of historical aerial photographs (1937, 1951, 1958, 1966 and 1978), interviewing with knowledgeable individuals, including former residents, a door to door survey to obtain information from present residents, identification of former drainageways which are now filled to grade, interviews with Thruway Authority personnel and contractors who have built buildings and installed utility lines in this area. Since that time, NUS Corporation, as contractor to EPA has collected samples from many of these areas and a salt-water brine pipeline has been constructed through the area.

Based on the above information, the following is our interpretation of historical waste disposal activities at the 64th Street-North Site:

No evidence of waste disposal activity or any significant development of this site is noted prior to 1937 (based on air photos (1937 and 1919, 1921 and 1927 maps). Much of the surrounding area was being cultivated at that time. The I 190 was not yet constructed but Connecting Road and Niagara Falls Boulevard were in place. A forked drainage swale, several to possibly 10 feet deep in places stretched across the site. Drainage apparently flowed westward. The surrounding area was largely wetland. Drawing showing the former swale routes were previously provided to you.

During World War II the area south of Niagara Falls Boulevard was developed as a civilian housing complex for aircraft construction workers. This development was demolished in the early 1950's. Simultaneously, the drainage swale from the center of the 64th Street Site to Niagara Falls Boulevard was filled in. This area may contain debris from the demolition of the housing project. It has also been reported that this area may have received garbage or incinerator ash from the housing project while it was active. We contacted the Department of Defense, but they were not able to provide any useable information on these activities.

In the 1950's the remaining section of swale, including the large east-west trending swale was filled. It is suspected that much of this area was filled with municipal-type garbage. Several adjoining low areas were also filled. The area appears to have been filled in and essentially level with grade by 1958.

The I 190 was constructed in the late 1950's and early 1960's and the site was developed to near its present extent by the mid 1960's.

The above information is largely confirmed by using aerial photographs and by several persons interviewed by this department in 1985. In 1985 the Texas Brine Corporation encountered obvious raw garbage in an excavation along the north side of the site. Thruway Authority personnel interviewed were unaware of any waste material encountered during the I 190 construction but it is noted that this section of the I 190 is a fill section.

We hope that the above is adequate for your purposes, we can supply more detailed information if requested however the above should be adequate for a Phase I or II type investigation.

February 23, 1988

2) Groundwater information

Groundwater data for this area is available from several sources, including:

- 1) INUS - 1986 LaSalle Area groundwater study
- 2) USGS - Niagara River Study
- 3) Dupont/Woodward Clyde - Necco Park Investigations
- 4) CECOS/Newco groundwater monitoring system

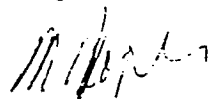
The above data in its entirety is too large to transmit. We have attached various summaries and maps showing well locations. Additional information should be obtained from the above sources.

3) Information on Texas Brine Line construction near site

Attached are various documents related to the construction of the Texas Brine Line adjacent to the site.

Please contact me with any questions at 716-284-3128.

Very truly yours,



Michael Hopkins
Assistant Public Health
Engineer

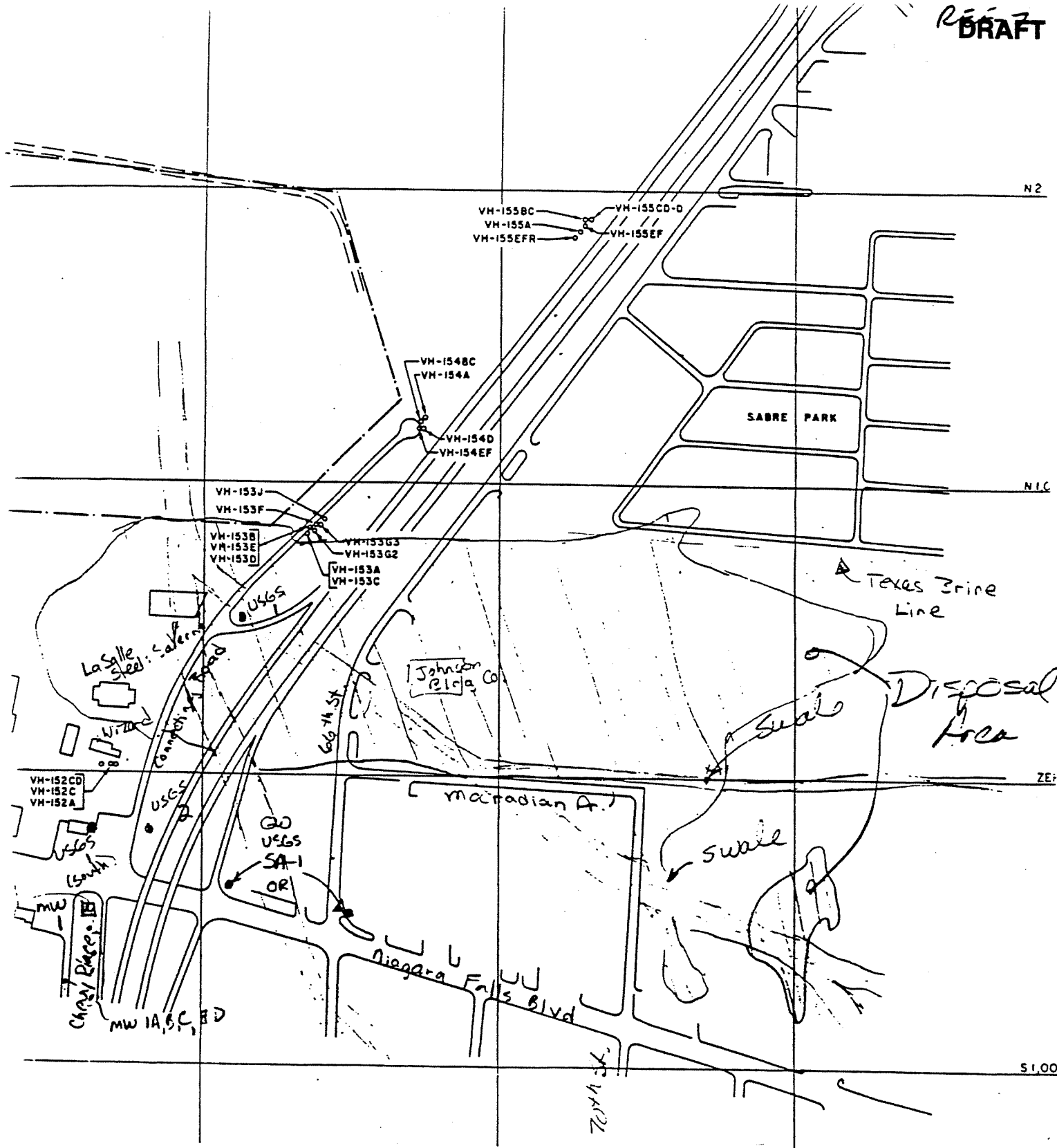
EH:lj

cc: Jaspal Malia

L. Fusin

R. Marantano

DRAFT



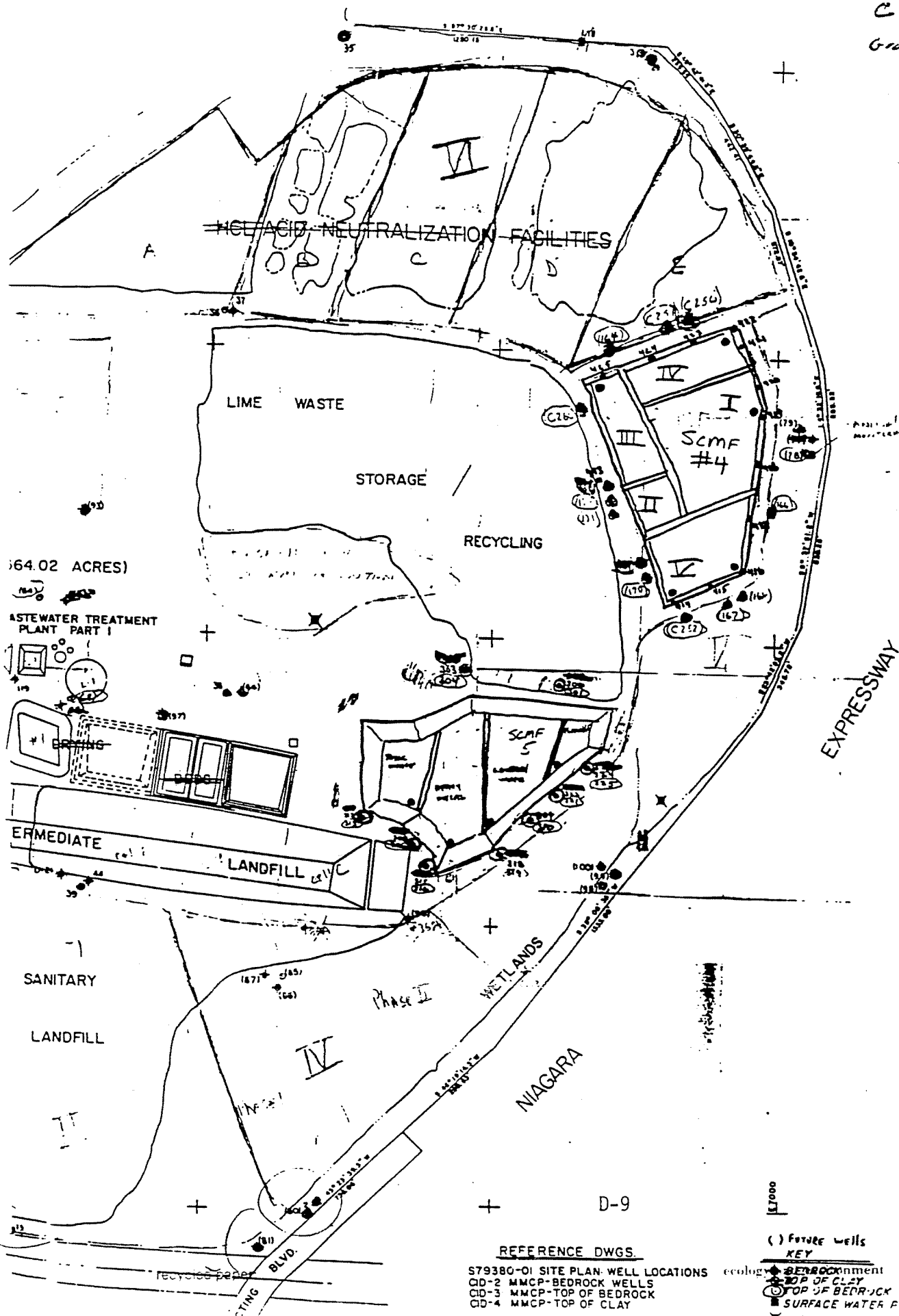
**MONITORING WELL LOCATION PLAN
NECCO PARK
E. I. du PONT de NEMOURS & CO.
NIAGARA FALLS, NEW YORK**

D-8

WOODWARD-CLYDE CONSULTANTS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

CECCS/News
Groundwater as BS



REFERENCE DWGS.

S79380-01 SITE PLAN WELL LOCATIONS
QD-2 MMCP-BEDROCK WELLS
QD-3 MMCP-TOP OF BEDROCK
QD-4 MMCP-TOP OF CLAY

D-9

17000

INTERVIEW FORM

INTERVIEWEE/CODE Mike Hopkins /
 TITLE - POSITION Niagara County Health Dept. (NCHD)
 ADDRESS _____
 CITY Niagara Falls STATE NY ZIP _____
 PHONE (716) 284-3128 RESIDENCE PERIOD _____ TO _____
 LOCATION _____ INTERVIEWER Cathy J. Bosma
 DATE/TIME 2/17/88 / afternoon
 SUBJECT: Phase I - 64th St - North Site

REMARKS: I requested the following information/clarification based on NCHD Draft review comments. (Mike had sent some information after my first request.)

1. Direction of ground water flow? South
2. Federal Centers for Disease Control Assessments of NUS Data? The data Mike has available is for the 64th St - South site. Mike is not sure if CDC evaluated NUS North site data because he does not have this information. He thinks CDC may have evaluated data because NUS always has CDC do this. Availability of this information is unknown.
3. Is there any groundwater data for the north site? CECOS has wells on western part of 64th St - North; USGS has well east of I-190 and north of Niagara Falls Blvd, and Dupont may also have well data. Mike will send me this information.
4. Are interviews with local residents applicable to 64th St - North? These were really regarding Niagara Falls High School but residents also discuss disposal in 64th area. No person mentioned disposal of industrial wastes or drums. (Mike will send this information.)
5. EPA/USGS, Nov 1985 - Results of soil sampling at Sabro Trailer Park? Mike didn't think these results are appropriate to 64th St.-North. Mike

I agree with the above interview summary:

Signature/Title:

Comments:

INTERVIEW FORM

INTERVIEWEE/CODE Mike Hopkins interview - page two /
TITLE - POSITION _____
ADDRESS _____
CITY _____ STATE _____ ZIP _____
PHONE () _____ RESIDENCE PERIOD _____ TO _____
LOCATION _____ INTERVIEWER _____
DATE/TIME _____ / _____
SUBJECT: _____

REMARKS: said trailer park is a separate Phase I study.

6. Any other information we may need?

Woodward-Clyde and Texas Brine found garbage and a propane tank
(which blew up) during excavation for installing a line on Niagara
Mohawk right-of-way. Mike will send this information.

I agree with the above interview summary:

Signature/Title:

Comments:

INTERVIEW FORM

INTERVIEWEE/CODE Mike Hopkins 1 p.1
 TITLE - POSITION Niagara County Health Dept (NCHD)
 ADDRESS _____
 CITY Niagara Falls STATE NY ZIP _____
 PHONE (716) 284-3128 RESIDENCE PERIOD _____ TO _____
 LOCATION _____ INTERVIEWER Cathy J. Bosma
 DATE/TIME 2-17-88 1 afternoon
 SUBJECT: Phase I - 64th St. - North Site

REMARKS: ^IRequested the following information/clarification based on NCHD Draft review comments. (Mike had sent some information after my first request)

1. Direction of Groundwater Flow? South
2. Federal Centers for Disease Control Assessment of NUS Data?
The data Mike has available is for the 64th St. - South site. Mike is not sure if CDC evaluated NUS north site data, because he does not have this information. He thinks CDC has may have evaluated the data because NUS always has CDC do this. Availability of this information is unknown.
3. Is there any groundwater data for the north site?
CECOS has wells on western part of 64th St. - North. USGS has well at east of I-190 & North of Niagara Falls Blvd and DuPont may also have well data. Mike will send me this information.
4. Are interviews with local residents applicable to 64th St. - North?
These were really regarding Niagara Falls High School but residents also discuss disposal in 64th area. No person

I agree with the above interview summary:

Signature/Title: _____

Comments: _____

INTERVIEW FORM, continued

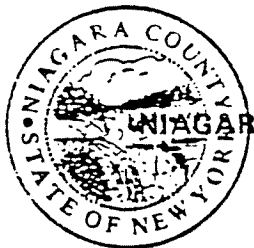
INTERVIEWEE/CODE Mike Hopkins 1 p.2
 TITLE - POSITION NCHD
 ADDRESS _____
 CITY _____ STATE _____ ZIP _____
 PHONE () _____ RESIDENCE PERIOD _____ TO _____
 LOCATION _____ INTERVIEWER _____
 DATE/TIME 2-17-88 1
 SUBJECT: Phase I - 64th St - North Site

REMARKS: _____ Mike will send this information.
 4. Conts -
 mentioned disposal of industrial wastes or drums.
 5. EPA/USGS Nov 1985 - Results of soil sampling at
 Sabre Trailer Park?
 Mike didn't think these results are appropriate to
 64th St - North Site. Mike said trailer park is
 a separate Phase I study.
 6. Any other information we may need?
 Woodward-Clyde and Texas Brine found garbage
 and a propane tank (which blew up) during
 excavation for installing a line on Niagara Mohawk
 right of way. Mike will send this information.

I agree with the above interview summary:

Signature/Title: _____

Comments: _____



NIAGARA COUNTY

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

February 4, 1988

Engineering Science
10521 Rosehaven Street
Fairfax, VA 22030

Attention: Ms. Cathy Bosma

Dear Ms. Bosma:

Attached is information from our files pertaining to the 64th Street - North site. The following is attached:

1. Sketches prepared by this department showing the routes of former drainage swales (now level with surrounding grade), estimated limits of waste disposal and photocopies of air photos showing disposal in progress (1951 and 1958).
2. Results of soil analyses from samples collected by NUS Corporation in 1985.
3. Results of soil samples collected from the Niagara Mohawk (Texas Brine Co.) right-of-way north of the site. Also attached is an inspection report noting waste material encountered during utility line construction during 1986. The waste encountered was visually classified as rubble and municipal refuse.

ES already had

Please contact me if you need additional information at (716) 284-3128.

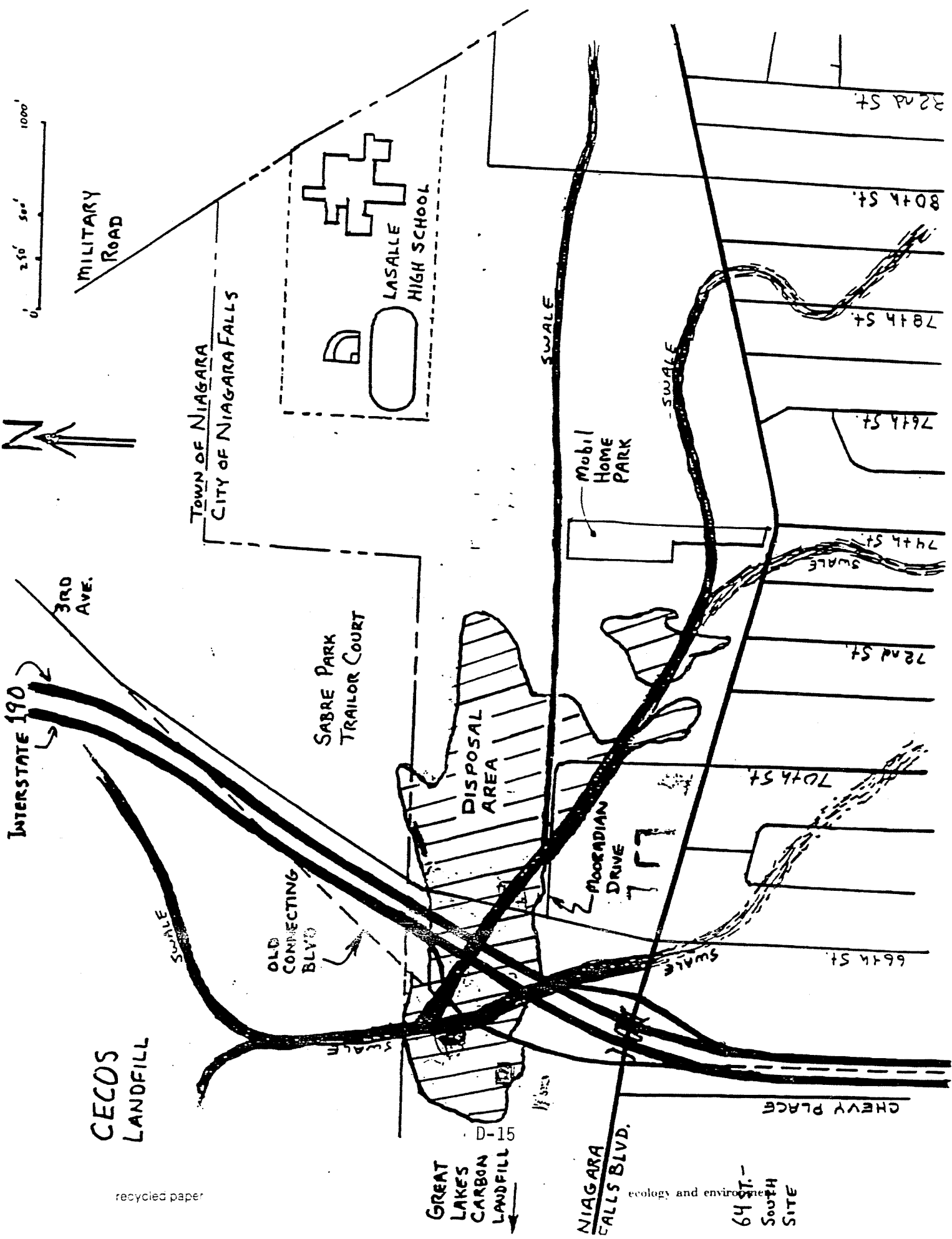
Yours very truly,

A handwritten signature in dark ink, appearing to read "Michael E. Hopkins".

Michael E. Hopkins
Assistant Public Health Engineer

MEH:cs
Attach.

cc: Mr. J. Tygert/DEC-9 w/o attach.



CECOS
LANDFILL

OLD
CONNECTING
BLVD

SABRE PARK
TRAILOR COURT

DISPOSAL
AREA

GREAT
LAKES
CARBON
LANDFILL

NIAGARA
FALLS BLVD.

64 ST. -
South
SITE

ecology and environment

Hopkins, 1986

INTERVIEW FORM

INTERVIEWEE/CODE Mike Hopkins /
 TITLE - POSITION Niagara County Health Department
 ADDRESS 10th Street and East Falls
 CITY Niagara Falls STATE N.Y. ZIP 14303
 PHONE (716) 284-3124 RESIDENCE PERIOD TO
 LOCATION phone interview INTERVIEWER Larry Keefe (Dames and Moore)
 DATE/TIME May 8, 1986 / 11:20 a.m.
 SUBJECT: groundwater usage in the Niagara Falls area

REMARKS: Regarding the following sites: Great Lakes Carbon, Wurlitzer, Dibacco #2,

Adams Generating Plant, Hydraulic Canal, 64th Street, St. Mary's and

Bishop Duffy Schools, Silbergeld Junkyard, and Tam Ceramics;

the following known groundwater usage applies:

1. The only known drinking water wells are on Pennsylvania Avenue in the
town of Niagara. There are 2 wells on Pennsylvania Avenue and 3 on
Delaware Avenue (adjacent street).

2. The only known operational industrial well is at Olin Chemical on
Buffalo Avenue, City of Niagara Falls. This is a non-contact cooling
water usage only.

I agree with the above interview summary:

Signature/Title:

Comments:

recycled paper

MAY 15 1986

INTERVIEW FORM

INTERVIEWEE/CODE MIKE HOPKINS 1
TITLE - POSITION NIAGARA COUNTY HEALTH DEPT.
ADDRESS 10th STREET & EAST FALLS
CITY NIAGARA FALLS STATE NY ZIP 14303
PHONE (716) 284-3124 RESIDENCE PERIOD TO
LOCATION: PHONE INTERVIEW INTERVIEWER LARRY KEEFE (DAMES & MOORE)
DATE/TIME MAY 8, 1986 / 11:20 A
SUBJECT: GROUNDWATER USAGE IN THE NIAGARA FALLS AREA

REMARKS: REGARDING THE FOLLOWING SITES; ¹GREAT LAICES CARRON,
²WURLITZER, ³DIBACCO #2, ⁴ADAMS GENERATING PLANT, ⁵HYDRAULIC CANAL, ⁶64th ST,
⁷ST. MARY'S (BISHOP DUFFY) SCHOOLS, ⁸SILBERGELD JUNKYARD, AND ⁹TAM CERAMICS;
THE FOLLOWING KNOWN GROUNDWATER USAGE APPLIES:

1) THE ONLY KNOWN DRINKING WATER WELLS ARE ON PENNSYLVANIA AVE
IN THE TOWN OF NIAGARA. THERE ARE ²~~4~~ WELLS ON PENN. AVE and 3 on
Delaware Ave (Adjoint Street)

2) THE ONLY KNOWN OPERATIONAL INDUSTRIAL WELL IS AT OLIN CHEMICAL
ON BUFFALO AVE, CITY OF NIAGARA FALLS. THIS IS A NON-CONTACT
^{Cooling} PROCESS WATER USAGE ONLY.

I agree with the above interview summary as corrected:

Signature/Title: Michael E. Repley, NCHD

Comments:

D-17

NAME

64th STREET - NORTH * (DEC #932085)

*This is the first of two sites listed collectively as "64th Street" in the DEC Hazardous Waste Disposal Sites in New York State, Volume III.

LOCATION

The site is a roughly rectangular 20 acre landfill located 800 feet north of Pine Avenue in Niagara Falls, NY. The landfilled area is bounded by the Niagara Mohawk easement to the north and extends from several hundred feet west of Connecting Road to 1,000 feet or more east of Third Avenue. Unconfirmed reports suggest that additional areas to the east have been used as disposal areas.

A site sketch is attached.

OWNERSHIP

Currently the site is owned by several parties including the State of New York Dept. of Transportation (I-190 Right of Way), Johnson & Johnson and Mr. G. Salerno. A portion of the property owned by Wizard Methods, Inc. may also be built atop the landfilled area.

The ownership at the time of active disposal has not been determined.

HISTORY

Prior to landfilling, this land is believed to have been farm land. A 1935 USGS map (Tonawanda west, 7 $\frac{1}{2}$ ') shows that several acres of wetlands were present at that time. Connecting Road was in place in 1935, but not in 1927, according to a 1927 City Street map. Third Avenue and the Niagara Thruway were constructed over the site during the early 1960's.

The City of Niagara Falls operated a municipal landfill on this site during the 1940's and 1950's. Domestic and commercial refuse are suspected to be the principal wastes present although the disposal of industrial wastes is a possibility. The type and quantity of industrial wastes buried here, if any, is unknown.

Two adjacent properties, Great Lakes Carbon and CECOS/Newco (previously Union Carbide) are known to have received industrial wastes. The Basic Carbon Company, which operated a small plant on or adjacent to the 64th Street Site, is reported to have operated a landfill on-site from 1951 to 1960. At least 75% of the area of the one mile square quadrant northeast of this site is land which was previously landfilled or otherwise used for waste disposal or treatment. Any effects from these sites on the 64th Street Site is unknown.

HISTORY (continued)

An inspection made in November, 1981 found no visible evidence of previous dumping or waste materials. The Niagara Expressway now occupies the largest portion of the area. The Expressway is elevated five to twelve feet above grade in this section. Swales are found along either side of the side slopes. Ditches run parallel to both Third Avenue and Connecting Road. The area west of Connecting Road is largely paved and several commercial buildings are found here. The Walter S. Johnson Construction Company building is located east of Third Avenue. The area east of this building is roughly graded with some mounds of 5 to 10 cubic yards. There is evidence of scavenger dumping in this area.

The area behind the Johnson building, east of Third Avenue may be developed residentially in the future.

RESULTS OF PREVIOUS SAMPLING

There is no record of any previous sampling at this location.

EXAMINATION OF AERIAL PHOTOGRAPHS

USDA aerial photographs, numbers ARE-3V-82 (1958) and ARE-2GC-27 (1966), were examined. The 1958 photo showed that most of the area was light colored and devoid of vegetation. No signs of active disposal were found at this time. The I-190 and Third Avenue were not yet constructed. The area to the north was wooded and the area to the east was lightly wooded or brush covered. The commercial buildings along Pine Avenue were in place at this time.

The 1966 photo showed the area to be developed to near its present extent. The I-190 and Third Avenue were in place. Most of the nearby and on-site buildings were in place at this time. The area to the north was still wooded. Saber Park Trailer Court was not yet constructed.

A 1980 EPA document reported that 1951 photography showed dumping into the swale which previously drained the Newco property and that the area west of Connecting Road was full.

SOILS/GEOLOGY

The current USDA Soil Conservation Service Soil Survey for Niagara County lists the soil type only as "cut and fill". A 1947 publication lists the soil as Poygam Clay. The effect of landfilling on soil conditions is not known.

The only boring data found was from the southeast corner of the Newco property. These records showed four to five feet of Lacustrine Silt, over eight to ten feet of Lacustrine Clay, over five feet of Glacial Till, over bedrock.

Bedrock is Lockport Dolomite to over 120 feet in thickness. The depth to water bearing zones in the Dolomite is unknown.

GROUNDWATER

Two aquifers are possible in this area. A perched watertable in the unconsolidated material may exist either on a permanent or seasonal basis. The expected depth to the watertable and the direction of flow are unknown.

Bedding joints within the Dolomite are likely to be water bearing zones. Several bedding joints are expected. The depth to bedrock aquifers and the direction of flow is unknown.

There are no known drinking water wells within three miles of this site. The nearest industrial well is located about two miles southwest (DuPont). There are no other known uses of groundwater in this area.

SURFACE WATER

The nearest surface water is the Niagara River, 8,000 feet to the south. The runoff from this area may enter storm sewers which may enter either the Niagara River or Gill Creek.

Although the direction of groundwater flow is unknown, any groundwater contamination resulting from this site is expected to enter the Niagara River upstream of the City of Niagara Falls water intakes.

There are no wetlands within one mile of this site, although the site itself once contained wetlands. The site is not within a 100 year flood plain.

AIR

There is no record of air quality problems from this site. It is not known if any problems were created while the site was open.

The nearest population is at Saber Park, 600 feet north, 3,000 to 4,000 people live within one mile. The land to the southwest, west and northwest is industrial for over one mile. The land to the north, south and southwest is predominately residential with some commercial property. Much of the area to the east is undeveloped until Military Road, where a commercial area is found.

FIRE/EXPLOSION

The potential for fire or explosion is unknown.

Over 10,000 people live within two miles. Several thousand buildings, including industrial, commercial and residential buildings and approximately 200 Mobil homes are located within a two mile radius. Several buildings are on-site. The nearest off-site buildings are those owned by Wizard Methods and Costanzo Welding on Connecting Road. These buildings are within 200 feet of the filled area.

DIRECT CONTACT

There is no sign of any exposed material at this site. The I-190 Right-of-Way is fenced. Other areas are on private property, but not totally fenced.

CONCLUSIONS

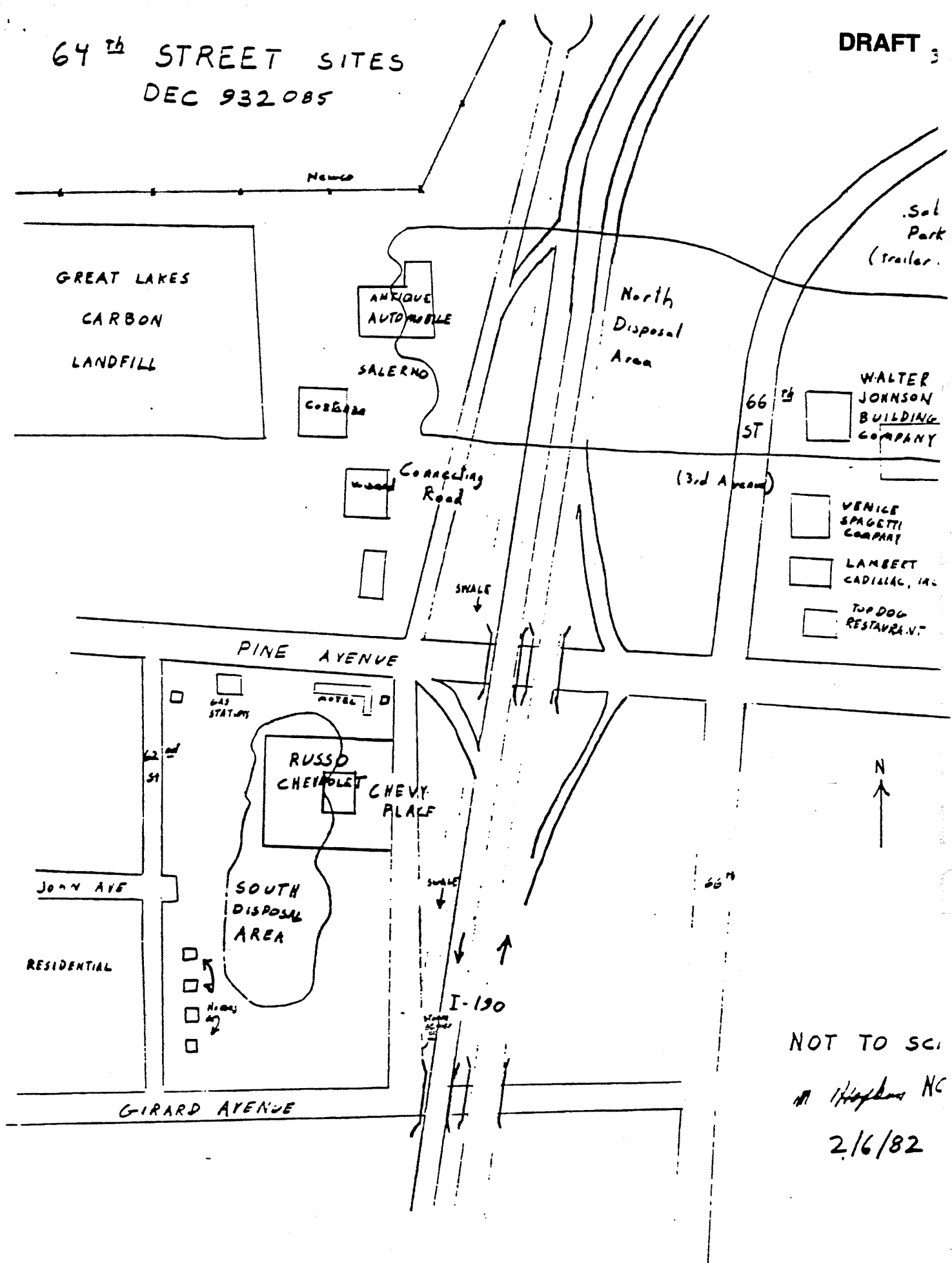
The available data is insufficient to access the potential impacts of this site. The presence or absence of hazardous materials must be determined. The effects of other nearby sites must be considered when accessing impacts.

Sampling and/or observation holes are necessary to obtain data. Holes could be placed along the toe of the slopes of the I-190, along Connecting Road or Third Avenue or behind buildings owned by Mr. Salerno or Mr. Johnson.

Any future excavations in this area should be examined by the DEC or the Niagara County Health Department.

64th STREET SITES
DEC 932085

DRAFT 3



NOT TO SCALE
in Highlands NC
2/6/82

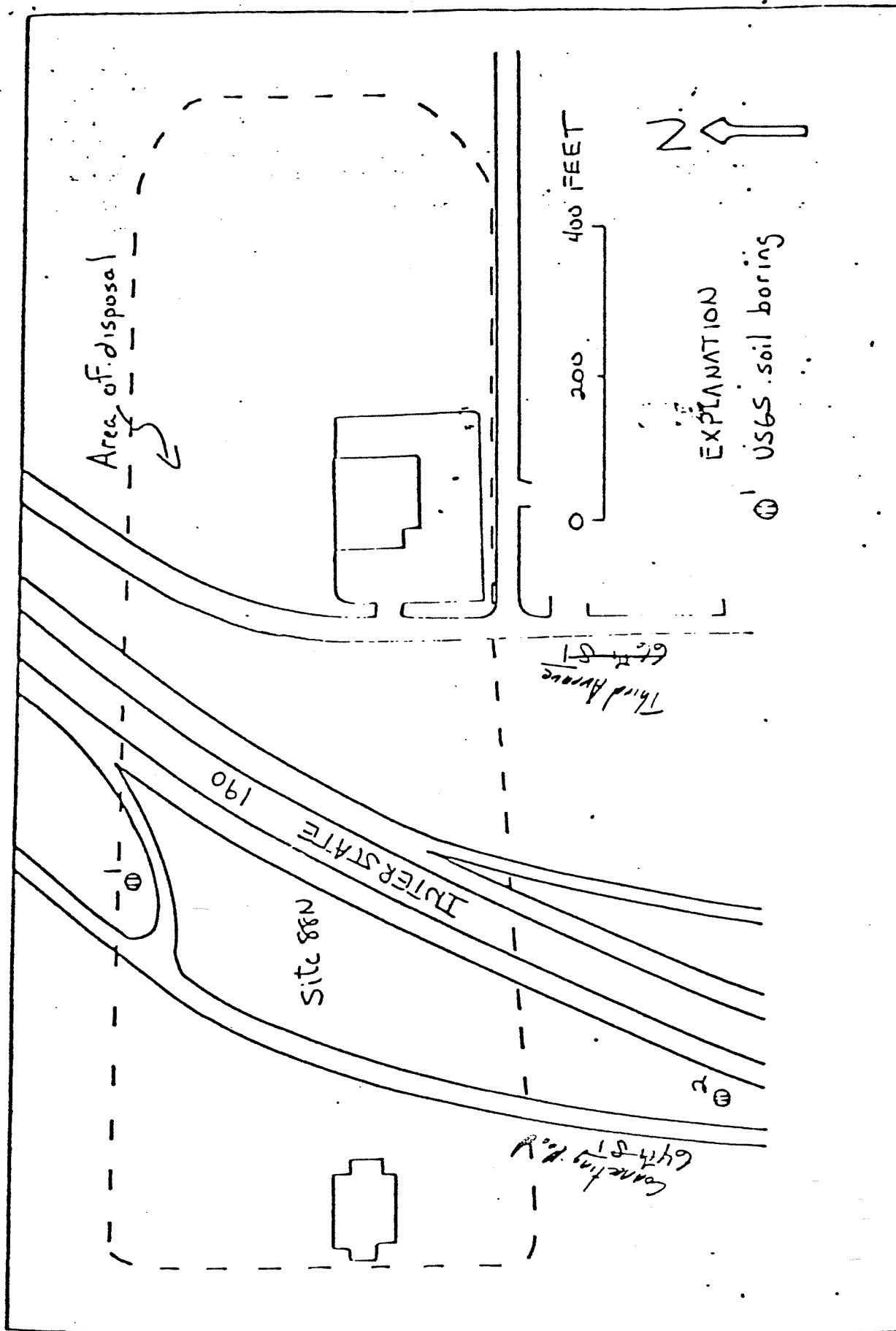


Figure 1 - location of sampling sites, 611th St North USGS

64 ST; Dump - NORTH

PROJECT FOR
PERFORMANCE OF
REMEDIAL RESPONSE ACTIVITIES AT
UNCONTROLLED HAZARDOUS
SUBSTANCE FACILITIES—ZONE 1

NUS CORPORATION
SUPERFUND DIVISION

R-584-03-86-01

PRESENTATION OF ANALYTICAL DATA
FROM
64TH STREET DUMP NORTH
NIAGARA FALLS, NEW YORK

PREPARED UNDER

TECHNICAL DIRECTIVE DOCUMENT NO. 02-8506-05
CONTRACT NO. 68-01-6699

FOR THE

ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

MARCH 20, 1986

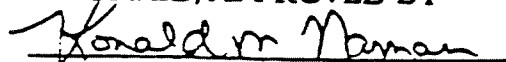
NUS CORPORATION
SUPERFUND DIVISION

SUBMITTED BY



DEBORAH E. LAMOND
PROJECT MANAGER

REVIEWED/APPROVED BY



RONALD M. NAMAN
REGIONAL PROJECT MANAGER

1.0 EXECUTIVE SUMMARY

Sampling of the soils at the 64th Street Dump North site, Niagara Falls, New York was performed in two parts.

Part one was performed on the western portion of the site on June 12, 1985 as part of the Basic Carbon Company site inspection. Those sections of this presentation which refer to sampling conducted as part of the Basic Carbon Company site inspection have been taken verbatim from Report Number R-584-09-85-01, Presentation of Analytical Data from Basic Carbon Company, Niagara Falls, New York. The Basic Carbon Company data presentation has been reviewed and commented on by the Agency for Toxic Substances and Disease Registry. Four surface soil samples, one subsurface soil sample and one quality assurance/quality control field blank were collected and analyzed. The significant findings of this evaluation are as follows:

Varying concentrations of volatile and semi-volatile compounds were detected in the soil samples taken at Basic Carbon. In addition, a pesticide (alpha-BHC) and a polychlorinated biphenyl mixture (Aroclor 1248) were found in samples NYA5-S3 and NYA5-S4, respectively.

Concentrations of inorganic compounds detected in the soil samples were generally within normal ranges for soil with the exceptions of cadmium, chromium, lead and mercury. All of the aforementioned exceeded the levels specified by Bohn et al. (1979) for inorganic compounds in the soil in at least one of the samples.

Part two of the 64th Street Dump North sampling was performed on the eastern portion of the site on December 19, 1985. Soil samples were collected at four locations at depths of 0-4 inches, 2 feet and approximately 4 feet at each of those locations (See Table 4-2). At two locations, soil samples were collected at depths of 0-4 inches and 2 feet. Auger refusal at those two locations precluded sampling any deeper than 2 feet. One quality assurance/quality control field blank was collected. The significant findings of this evaluation are as follows:

Varying concentrations of volatile and semi-volatile compounds were detected in the soil samples. In addition, four pesticides (alpha-BHC, chlordane, aldrin, 4,4'-DDE) were found in ten soil samples and two polychlorinated biphenyl mixtures (Aroclors 1254 and 1260) were found in samples NYB1-S1-2 and NYB1-S1-5, respectively.

Concentrations of inorganic compounds detected in the soil samples were generally within normal ranges for soil with the exceptions of mercury, lead and zinc. All of the aforementioned exceeded the levels specified by Bohn et al. (1979) for inorganic compounds in the soil in at least one of the samples.

3.0 BACKGROUND

This section provides a description of the site as it presently exists and a review of the site's history.

The 64th Street Dump North site is a 20 acre site located in a highly industrialized area of the city of Niagara Falls, Niagara County, New York and was used as a municipal landfill during the 1940's and 1950's. The southern border of the site is approximately 800 feet north of Niagara Falls Boulevard. The site is bounded by the Niagara Mohawk easement to the north and extends from several hundred feet west of Connecting Road to 1,000 feet or more east of Interstate 190 (I-190) (See Figures 3-1 and 3-2). The possibility exists that industrial wastes may have been placed in the landfill, but there are no documented reports describing such disposal.

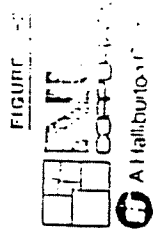
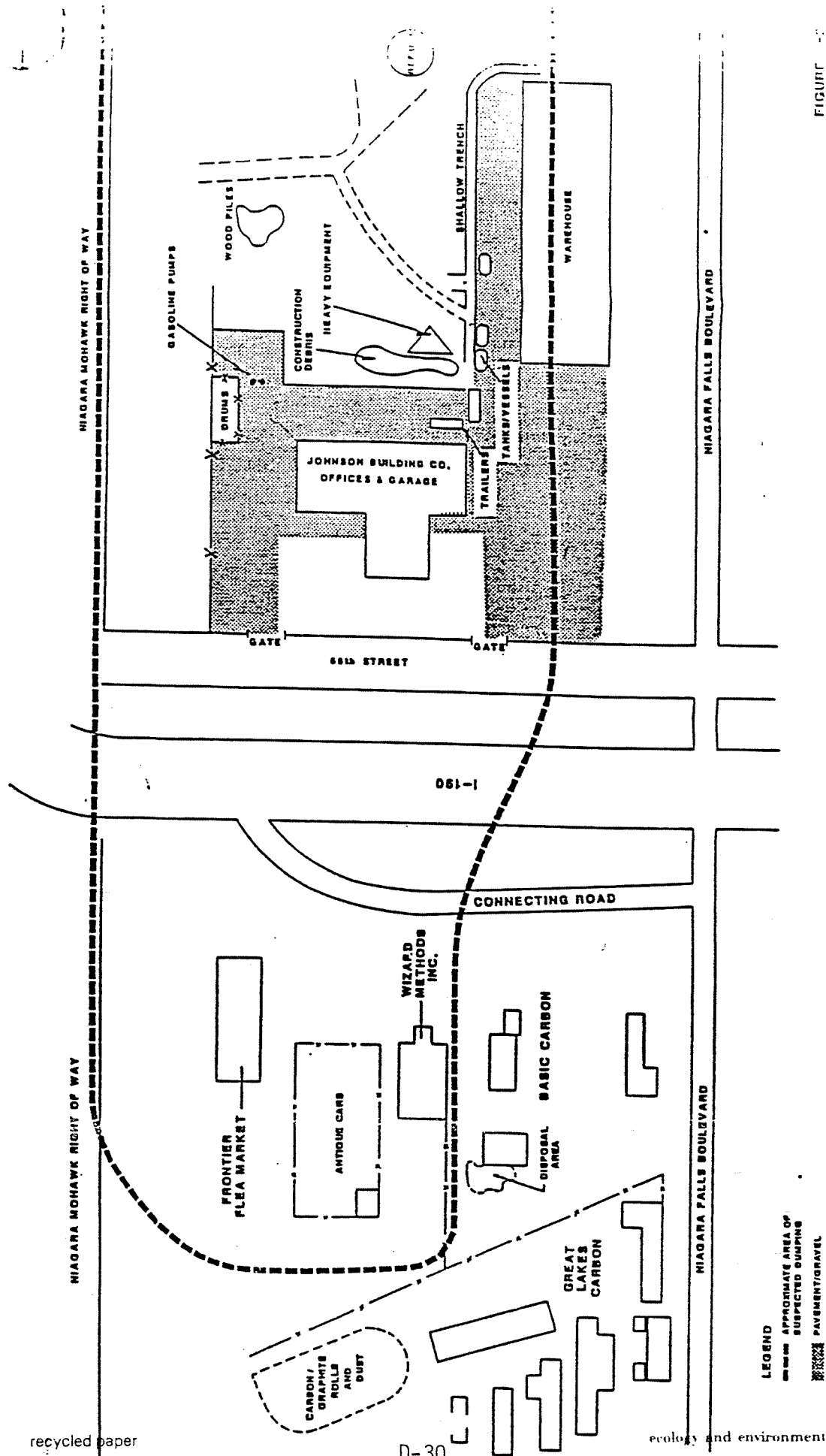
Presently, about 60-70 percent of the former disposal area is now covered with pavement. Several commercial buildings also occupy the site. Current ownership of the site is split between three parties. The portion of the site located west of I-190 is owned by Jim Salerno of LaSalle Steel. The CECOS/Necco Park landfill complex is located less than one quarter mile to the north of this western portion of the site. The State of New York Department of Transportation owns the portion of the site which lies under I-190 including the rights of way to either side of the highway. The portion of the site east of I-190 is owned by the Walter S. Johnson Building Company, Inc. The Sabre Park residential area is located less than one quarter mile to the north of this eastern portion of the site.

A site inspection was conducted on the portion of the site which lies to the east of I-190 on December 19, 1985.

Sampling on the portion of the site located west of I-190 was conducted on June 12, 1985 under TDD #02-8305-10 as part of the site inspection for Basic Carbon Company. It should be noted that analysis of historical photos and site related documents subsequent to the June 12, 1985 site inspection performed at Basic Carbon Company revealed that only one of the samples was actually taken in the vicinity of the disposal activities at Basic Carbon. The other samples were taken in locations which would characterize the area relative to landfill and dumping

activities at the 64th Street Dump North site. All samples collected during the Basic Carbon site inspection have been included as part of the 64th Street Dump North sampling as a result of information provided by the historical photos. The locations sampled during the Basic Carbon Company site inspection correspond to the location of the western portion of the 64th Street North Dump. Site access problems precluded sampling both portions of the site at the same time.

Multi-depth soil samples were collected on the eastern portion of the site at six locations. Five soil samples were collected on the western portion of the site as part of the Basic Carbon Company sampling. This report is a presentation of the data generated by these field activities.



SITE MAP
64th STREET DUMP-NORTH, NIAGARA FALLS, N.Y.

(NOT TO SCALE)

TABLE 4-1
 Sample Descriptions
 64th Street Dump North, Eastern Portion
 (Basic Carbon Company)
 EPA Case #4449/1725B
 06/12/85

<u>Sample Number</u>	<u>Sample Type #</u>	<u>Time</u>	<u>Sample Location</u>
NYA5-S1	Soil	1135	0-4 inches deep, northwest of Wizard Methods.
NYA5-S2	Soil	1153	0-4 inches deep, northwest of the antique car lot.
NYA5-S3	Soil	1200	0-4 inches deep, northwest of the Flea Market.
NYA5-S4	Soil	1215	0-4 inches deep, southwest of Wizard Methods.
NYA5-S5	Soil	1230	Approximately 6 inches deep, adjacent to I-190 Southbound off ramp.
NYA5-B1	Field Blank ^a	N/A ^b	Region II U.S. EPA Edison, New Jersey

Notes:

- a) Field blank contains doubly deionized water taken from U.S. EPA, Edison NJ on 6/7/85.
- b) N/A = Not Applicable

TABLE 4-2
Sample Descriptions
64th Street Dump North, Western Portion
EPA Case #5363
12/19/85

<u>Sample Number</u>	<u>Sample Type</u>	<u>Time</u>	<u>Sample Location</u>
NYB1-S1-0	Soil	0930	0-4 inches deep, approximately 25 feet north of office building and 40 feet east of 66th St.
NYB1-S1-2	Soil	1045	2 feet deep, same location as NYB1-S1-0
NYB1-S1-5	Soil	1100	3.5 feet deep, same location as NYB1-S1-0
NYB1-S2-0	Soil	0954	0-4 inches deep, approximately 12 feet north of fence which forms northern boundary of site and 30 feet east of 66th Street
NYB1-S2-2	Soil	1116	2 feet deep, same location as NYB1-S2-0
NYB1-S2-5	Soil	1126	4 feet deep, same location as NYB1-S2-0
NYB1-S3-0	Soil	1200	0-4 inches deep, parallel to and 500 feet east of office building in line with location NYB1-S2.
NYB1-S3-2	Soil	1219	2 feet deep, 10 feet west of location NYB1-S3-0
NYB1-S4-0	Soil	1240	0-4 inches deep, 400 feet north of warehouse and 600 feet east of office building
NYB1-S4-2	Soil	1303	2 feet deep, same location as NYB1-S4-0
NYB1-S5-0	Soil	1317	0-4 inches deep, approximately 300 feet north of warehouse and 675 feet east of office building

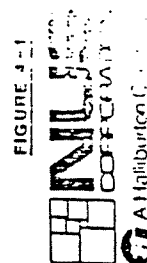
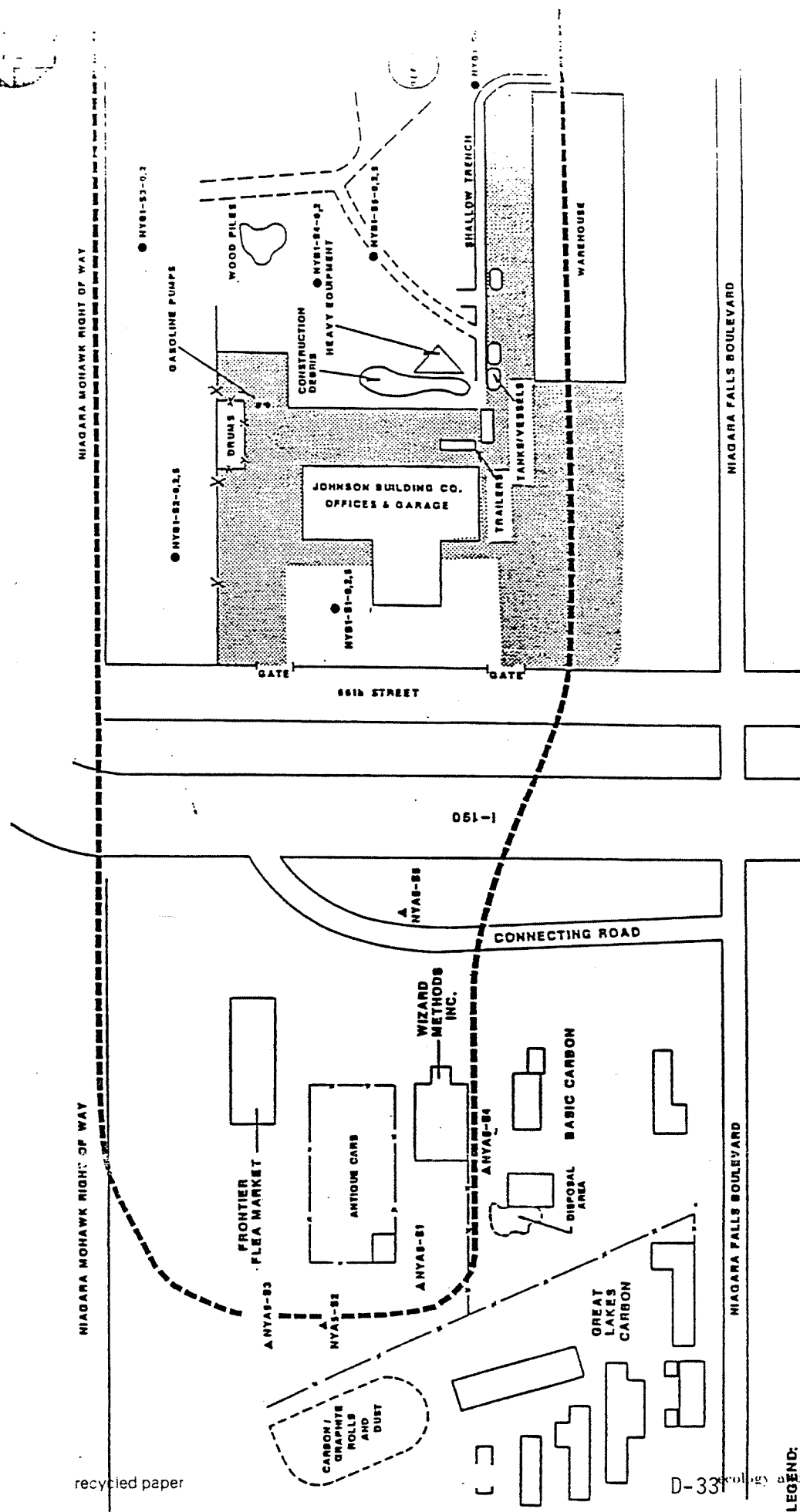


FIGURE 3-1

4-6



SAMPLE LOCATION MAP
64th STREET DUMP-NORTH, NIAGARA FALLS, N.Y.

(NOT TO SCALE)

LEGEND:

- 1 - APPROXIMATE AREA OF SUSPECTED BUMPING
- 2 - PAVEMENT/GRAVEL
- 3 - SOIL SAMPLE
- 4 - MULTI-DEPTH SOIL SAMPLE LOCATIONS
- 5 - SURFACE SAMPLES
- 6 - SUBSURFACE SAMPLE TAKEN AT 2 FT. DEPTH
- 7 - SUBSURFACE SAMPLES TAKEN AT DEPTHS GREATER THAN 2 FT.

This part presents the analytical results of the hazardous substance analyses of the surface and sub-surface soil samples collected on the western portion of the site (Basic Carbon Company). Each organic fraction of the sample is usually analyzed at "low" concentration detection limits. The semi-volatile and pesticide/polychlorinated biphenyl (PCB) fractions of samples NYA5-S3 and NYA5-S4 were analyzed at "medium" concentration detection limits. The decision to analyze at "medium" concentration detection limits was determined by a preliminary gas chromatographic screen which revealed high levels of compounds in each fraction. The "medium" detection limit is 3 to 5 orders of magnitude higher than the "low" detection limit.

Table 5-1 provides the analytical results of these samples. Various notations are used in the table. The notation "E" is used when the sample analysis did not pass U.S. EPA QA/QC requirements and was rejected. The notation "B" is used when the compound was found in the analytical laboratory's method blank as well as the sample. The notation "J" is used to designate the presence of a compound and to indicate that the amount present was below the analytical laboratory's quantitation limit.

Methylene chloride was detected in the analytical laboratory's reagent blank and the QA/QC field blank and acetone was detected in the QA/QC field blank. Both of these chemicals were found in a number of the samples. Acetone and methylene chloride are common laboratory solvents used in sample extraction and glassware cleaning. They are not discussed further since their presence and levels in the samples, with the possible exception of acetone in sample NYA5-S3, are indistinguishable from laboratory-induced contamination.

5.1 Soil Analysis

The five soil samples were analyzed for volatile and semi-volatile organic, pesticide, PCB and inorganic compounds.



TABLE 3-1 (cont'd)
 HONEY 6410 STREET DRUG NORTH - WESTERN PORTION
 (OSBIC CARBON COMPANY)
 SAMPLING DATE: 06/12/05
 CASE: 449/1735B

PERIODIC/PCDs	NYA5-B1 UO/KO	NYA5-B2 UO/KO	NYA5-B3 UO/KO	NYA5-B4 UO/KO	NYA5-B5 UO/KO
Acetic acid	E		J		
Butyric acid	E				
Hexanoic acid	E				
Octanoic acid (1-Indanol)	E				
Heptachlor	E				
Hexachlor	E				
Heptachlor Epoxide	E				
Endosulfan I	E				
Hexachlor	E				
Hexachlor	E				
Endosulfan	E				
Endosulfan II	E				
Hexachlor	E				
Endosulfan sulfate	E				
Endosulfan	E				
Hexachlor	E				
Hexachlor	E				
Endosulfan	E				
Chloroform	E				
Trichloro	E				
Hexachlor -1016	E				
Hexachlor -1221	E				
Hexachlor -1232	E				
Hexachlor -1242	E				
Hexachlor -1240	E			6200	
Hexachlor -1254	E				
Hexachlor -1260	E				

NOTES:

- Blank space - compound analyzed for but not detected
 E - analysis did not pass QA/QC requirements
 J - compound present below the specified detection limit
 D - compound found in laboratory blank as well as the sample,
 indicates possible/probable blank contamination

13

TABLE 5-1
 HART 1 64TH STREET PUMP NORTH - WESTERN PORTION
 (HART 1 CARBON COMPANY)
 SAMPLING DATE: 06/12/85
 CASE: 4449/1725B

0-4 inches

COMPOUND	NYAS-B1 UB/KG	NYAS-B2 UB/KG	NYAS-B3 UB/KG	NYAS-B4 UB/KG	NYAS-B5 UB/KG	NYAS-B1 UB/L
Chloromethane						
Bromomethane						
Vinyl Chloride						
Chloroethane						
Methylene Chloride	51B	85B	350B	140B	41B	10
Acetone	36		200	93	67	14
Carbon Disulfide						
1,1-Dichloroethane						
1,1-Dichloroethane						
Trans-1,2-Dichloroethane						
Chloroform						
1,2-Dichloroethane						
2-Butanone						
1,1,1-Trichloroethane		6.3	27	J	3.75	
Carbon Tetrachloride						
Vinyl Acetate						
Bromodichloromethane						
1,1,2,2-Tetrachloroethane						
1,2-Dichloropropane						
Trans-1,3-Dichloropropene			110			
Trichloroethene						
Dibromochloromethane						
1,1,2-Trichloroethane						
Benzene						
Cis-1,3-Dichloropropene						
2-Chloroethylvinylether						
Bromobenzene						
2-Hexanone		E				
1,4-Dichlorobenzene						
1,2-Dichlorobenzene	6	21			34	
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
1,2,4-Trichlorobenzene						
1,3,5-Trichlorobenzene						
1,2,3-Trichlorobenzene						
1,2,4-Trichlorobenzene						
1,3,5-Trichlorobenzene						
1,2,3,4-Tetrachlorobenzene						
1,2,3,5-Tetrachlorobenzene						
1,2,3,6-Tetrachlorobenzene						
1,2,4,5-Tetrachlorobenzene						
1,2,4,6-Tetrachlorobenzene						
1,3,4,5-Tetrachlorobenzene						
1,3,4,6-Tetrachlorobenzene						
1,3,5,6-Tetrachlorobenzene						
1,4,5,6-Tetrachlorobenzene						
1,2,3,4,5-Pentachlorobenzene						
1,2,3,4,6-Pentachlorobenzene						
1,2,3,5,6-Pentachlorobenzene						
1,2,4,5,6-Pentachlorobenzene						
1,3,4,5,6-Pentachlorobenzene						
1,2,3,4,5,6-Hexachlorobenzene						
Total Xylenes						

NOTES:

Blank space - compound analyzed for but not detected
 E - analysis did not pass QA/QC requirements
 J - compound present below the specified detection limit
 B - compound found in laboratory blank as well as the sample, indicating possible/probable blank contamination

(13)

TABLE 2-1 (cont'd)
HAMEI 64TH STREET RUMP NORTH - WESTERN PORTION
(COSMIC CARBON COMPANY)
SAMPLING DATE: 06/12/85
CASE: 9449/1725D

0-4 inches

SEMI-VOLATILES	NYAS-B1 UG/KG	NYAS-B2 UG/KG	NYAS-B3 UG/KG	NYAS-B4 UG/KG	NYAS-B5 UG/KG
Phenol					J
Aniline					
Bis(2-Chloroethyl)Ether					
2-Chlorophenol					
1,3-Dichlorobenzene		J			
1,4-Dichlorobenzene					
Benzyl Alcohol		J			
1,2-Dichlorobenzene					
2-Methylphenol					J
Bis(2-Chloroisopropyl)Ether					
4-Methylphenol					
n-Nitro-n-Propylamine					
Monochloroethane					
Nitrobenzene					
Isophorone					
2-Nitrophenol					J
2,4-Dimethylphenol					
Benzoic Acid					
Bis(2-Chloroethoxy)Methane					
2,4-Dichlorophenol					
1,2,4-Trichlorobenzene		J			J
Naphthalene	J				
3-Chloroaniline					
Hexachlorobutadiene		J			
4-Chloro-3-Methylphenol		J			
2-Methylnaphthalene		J			
Hexachlorocyclopentadiene					
2,4,6-Trichlorophenol					
2,4,5-Trichlorophenol					
2-Chloronaphthalene					
2-Nitroaniline					
Bimethyl Phthalate					
Monophthalene					
3-Nitroaniline					
Monophthalene	J				J
2,4-Dinitrophenol					
4-Nitrophenol					
Benzofuran	J	J			
2,4-Dinitrotoluene					
2,6-Dinitrotoluene					
Diethylphthalate	J				
4-Chlorophenylphenyl ether	J				
Fluorene					
4-Nitroaniline					

recycled paper

TABLE 5-1 (cont'd)
 NAME: 64TH STREET PUMP NORTH - WESTERN PORTION
 (EAST CARBOR COMPANY)
 EXPIRATION DATE: 06/12/85
 CASE: 4449/17250

recycled paper

SAMPLE NUMBER		NYAS-B1	NYAS-B2	NYAS-B3	NYAS-B4	NYAS-B5
UNIT#		UB/KD	UB/KD	UB/KD	UB/KD	UB/KD
1,6-Dinitro-2-Naphthol						
4-Nitrophenylamine						
4-Nitrophenyl ether						
Hexachlorobenzene			J			
Perchlorophenol		J				
Fluoranthene		1900	1000	46000		730
Anthracene		670	J	J		J
1,1'-Bis(4-phenyl)phthalate			E			
Fluoranthene		3000	1100	52000		1500
Benzo(a)pyrene						
Pyrene		2500	800	46000		1100
1,2,3-Trichlorobenzidine		J				
Benzo(a)anthracene		2400	610	27000		740
1,2,3-Ethylbenzyl Phthalate		E				JB
Chrysene		2500	630	30000		820
1,4-Diethyl Phthalate						
Benzo(b)fluoranthene		3600	620	45000		920
Benzo(k)fluoranthene		2700	590	J		830
Benzo(a)Pyrene		3300	620	J		920
Indeno(1,2,3-cd)Pyrene		16000	J	J		440
Benzo(a,h)anthracene		470	J			J
Benzo(g,h)Perylene		1400	J	J		J

1817E131

Blank space = compound analyzed, for but not detected

3 - only one seed per pip allowed - 30/00 seed 30/00 required

() - compound present below the specified detection limit.

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

Indicates possible/probable blank contamination

TABLE 5-1 (cont'd)
 HADEI 64TH STREET HIMP NORTH - WESTERN PORTION
 (NORTH CAROLINA COMPANY)
 ANALYSIS DATE: 06/12/05
 CASE: 4449/1725D

SAMPLE HIDDEN UNIT	NYAS-B1		NYAS-B2		NYAS-B3		NYAS-B4		NYAS-B5	
	MD/KD		MD/KD		MD/KD		MD/KD		MD/KD	
Aluminum	27600		7800		9930		7040		7830	
Antimony										
Arsenic	25	12	12		12		J		J	9
Boron	407	571	571		349		199		J	
Beryllium	46	J	J		J		J		J	
Cadmium	5.5	2.9	2.9		34		5.1			
Calcium	29100	79900	79900		96700		69500		121000	
Chromium	67	16	16		2760		101		32	
Cobalt	57	J	J		J		J		J	
Copper	J	J	J		J		J		J	
Iron	98000	15300	15300		25100		22000		14100	
Lead	729	29	29		250		236		110	
Magnesium	6660	26600	26600		20300		32000		16000	
Manganese	1470	703	703		1590		533		330	
Mercury	0.12	2.1	2.1		0.91		0.3		0.6	
Nickel	256	J	J		59		06		J	
Potassium	4300	J	J		J		J		J	
Selenium	J	J	J		J		J		J	
Silver	7.3	J	J		J		J		J	
Sodium		J	J		J		J		J	
Thallium										
Tin	248									
Vanadium	50	J	J		114		40		J	
Zinc	J	J	J		J		J		J	

NOTES:
 Blank space - compound analyzed for but not detected
 E - analysis did not pass QA/QC requirements
 J - compound present below the specified detection limit
 B - compound found in laboratory blank as well as the sample;
 indicates possible/probable blank contamination

Volatile Organic Compounds

1,1,1-Trichloroethane, trichloroethene and toluene were detected in one or more of the soil samples collected at concentrations up to 110 ug/kg.

Semi-Volatile Organic Compounds

With the exception of NYA5-S3, each of the samples analyzed contained varying amounts of polycyclic aromatic hydrocarbons (PAHs). Naphthalene, phenanthrene, anthracene, fluoranthene, pyrene, acenaphthene, flourene, chrysene, benzo(ghi)perylene and their derivatives were detected at concentrations as high as 52,000 ug/kg. The PAH compounds are components of petroleum and petroleum products including coal tar. Although not reported here, numerous substituted PAHs were also tentatively identified in these samples. These tentatively identified compounds are not included on the Hazardous Substance List. Although no semi-volatile compounds were recorded for sample NYA5-S3, analyzed as a "medium" concentration sample, mass spectra identified the presence of polycyclic-hydrocarbons common to petroleum products. Phthalate esters, phenolic and benzene based compounds, and other semi-volatile compounds were detected in one or more samples below the analytical laboratory's quantitation limits.

Pesticides and PCBs

Sample NYA5-S3 contained alpha-BHC below the analytical laboratory's quantitation limit. Sample NYA5-S4 contained 6,200 ug/kg of the PCB mixture Aroclor 1248. No other pesticides or PCBs were detected.

Inorganic Compounds

Concentrations of a number of inorganic compounds present in the samples were in excess of that normally found in soils (Bohn et al., 1979). Mercury was detected at elevated levels in all samples except NYA5-S1. Sample NYA5-S1 contained elevated levels of lead and tin.

Sample NYA5-S3 contained elevated levels of cadmium, chromium and lead. The remaining inorganic compounds detected were within the normal concentration range found in natural soils.

6.0 FINDINGS

This part presents the analytical results of the hazardous substance analyses of the surface and sub-surface soil samples collected on the eastern portion of the site. The semi-volatile and pesticide/PCB fractions of sample NYB1-S4-2 were analyzed at "medium" concentration detection limits.

Table 6-1 provides the analytical results of these samples. Various notations are used in the table. The notation "E" is used when the sample analysis did not pass U.S. EPA QA/QC requirements and was rejected. The notation "B" is used when the compound was found in the analytical laboratory's method blank as well as the sample. The notation "J" is used to designate the presence of a compound and to indicate that the amount present was below the analytical laboratory's quantitation limit.

Acetone, di-n-butylphthalate and bis(2-ethylhexyl)phthalate were detected in the laboratory method blank and in a number of samples and are considered ubiquitous to laboratory analyses. Acetone is a common laboratory solvent used in extraction and glassware cleaning. These three compounds are not discussed further since their presence in the samples are, for the most part, indistinguishable from laboratory-induced contamination. However it should be noted that in several samples the concentrations of the three compounds are at least two orders of magnitude higher than those found in the laboratory method blanks.

6.1 Soil Analysis

The sixteen soil samples were analyzed for volatile and semi-volatile organic, pesticide, PCB and inorganic compounds.

Volatile Organic Compounds

Toluene and chlorobenzene were detected in one or more samples at concentrations below the analytical laboratory's quantitation limit.

VOLATILE SOLUBLE NUMBER	NYDA-01-0 NYDA-01-2 NYDA-01-5 NYDA-02-0 NYDA-02-2 NYDA-02-5 NYDA-03-0 NYDA-03-2						
	BOIL 00/KG	BOIL 00/KG	BOIL 00/KG	BOIL 00/KG	BOIL 00/KG	BOIL 00/KG	BOIL 00/KG
Chloroethane							
Bromomethane							
Vinyl Chloride							
Chloroethane	E	E	E	E	E	E	E
Methylene Chloride	E	E	E	E	E	E	E
Acetone							
Carbon Disulfide							
1,1-Dichloroethane							
1,1,1-Trichloroethane							
Trane-1,2-Dichloroethane							
Chloroform							
1,2-Dichloroethane	E	E	E	E	E	E	E
2-Butanone							
1,1,1-Trichloroethane							
Carbon Tetrachloride							
Vinyl Acetate							
Dimethylchloromethane							
1,1,2,2-Tetrachloroethane							
1,2-Dichloropropane							
Trans-1,3-Dichloropropene							
Trichloroethene							
Dibromochloromethane							
1,1,2-Trichloroethane	E	E	E	E	E	E	E
Benzene							
Cis-1,3-Dichloropropene							
2-Chloroethylvinylether							
Bromoform							
2-Pentanone							
1-Methyl 2-Pentanone							
Tetrahydrofuran							
Toluene							
Chlorobenzene							
Ethylbenzene							
Styrene							

QUEST:	blank	spike	compound analyzed for but not detected	compound did not pass QA/QC required detection limit	compound present below the specified detection limit	compound found in laboratory blank as well as the sample,	compound found in laboratory blank as well as the sample, indicating possible/probable blank contamination
E							
J							
D							

18

TABLE 6-1 (cont'd)
ANALYTICAL DATA
HOLE 1 64TH STREET BUMP NORTH - EASTERN PORTION
SAMPLING DATE: 12/17/85
CORE: 5363

VOLATILES	INVD1-84-0		INVD1-84-2		INVD1-85-0		INVD1-85-2		INVD1-85-5		INVD1-86-0		INVD1-86-2		INVD1-86-5		INVD1-86-8	
	SOIL	00/KO	SOIL	00/KO	SOIL	00/KO	SOIL	00/KO	SOIL	00/KO	SOIL	00/KO	SOIL	00/KO	SOIL	00/KO	SOIL	00/KO
Chloromethane																		
Bromomethane																		
Vinyl Chloride																		
Chloroethane																		
Methylene Chloride	E		E				E		E		E		E		E		E	
Acetone	E		E															
Carbon Disulfide																		
1,1-Dichloroethane																		
1,1-Dichloroethane																		
Trans-1,2-Dichloroethane																		
Chloroform																		
1,2-Dichloroethane																		
2-Butanone	E		E				E		E		E		E		E		E	
1,1,1-Trichloroethane																		
Carbon Tetrachloride																		
Vinyl Acetate																		
Bromodichloromethane																		
1,1,2,2-Tetrachloroethane																		
1,2-Dichloropropane																		
Trans-1,3-Dichloropropane																		
Trichloroethene																		
Dibromochloromethane																		
1,1,2-Trichloroethane																		
Benzene																		
Cis-1,3-Dichloropropene																		
2-Chloroethylvinyl ether																		
Bromoform																		
2-Hexanone																		
4-Methyl-2-Pentanone																		
Tetrachloroethane																		
Toluene																		
Chlorobenzene																		
Ethylbenzene																		
Styrene																		
Total Xylenes																		

NOTE 3:

Blank space - compound analyzed for but not detected

E - analysis did not pass QA/QC requirements

J - compound present below the specified detection limit.

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

TABLE 6-1 (cont'd)
ANALYTICAL DATA
HOME 1 64TH STREET MOUND NORTH -- EASTERN PORTION
COMPLING DATE: 12/19/05
CASE# 5363

SAMPLE NUMBER MATRIX UNIT#	SEMI-VOLATILES	INVD1-B1-0		INVD1-B1-2		INVD1-B1-5		INVD1-B2-0		INVD1-B2-2		INVD1-B2-5		INVD1-B3-0		INVD1-B3-2	
		SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG
Phenol																	
Aniline			J														
Di-(2-Chloroethyl) Ether																	
2-Chlorophenol																	
1,3-Dichlorobenzene																	
1,4-Dichlorobenzene																	
Benzyl Alcohol																	
1,2-Dichlorobenzene																	
2-Methylphenol																	
Di-(2-Chloroisopropyl) Ether																	
4-Methylphenol																	
4-Hydroxy-Di-n-Propylamine																	
Hexachlorocyclopentadiene																	
Hexachlorocyclopentadiene																	
Isophorone																	
2-Methylphenol																	
2,4-Dimethylphenol																	
Benzoic Acid																	
Bis(2-Chloroethyl) Methane																	
2,4-Dichlorophenol																	
1,2,3-Trichlorobenzene																	
Hexachlorocyclopentadiene																	
1-Chloroaniline																	
Hexachlorobutadiene																	
1-Chloro-3-Methylphenol																	
2,4-Dichlorophenol																	
Hexachlorocyclopentadiene																	
2,4,6-Trichlorophenol																	
2,4,6-Trichlorophenol																	
2-Chloronaphthalene																	
2-Methylphenol																	
Dimethyl Fthalate																	
Acenaphthylene																	
2-Methylphenol																	
Acenaphthene																	
2,4-Dichlorophenol																	
1-Methylphenol																	
Benzofuran																	
2,1-Dimethylamine																	
2,6-Dimethylamine																	
Diethylphthalate																	
4-Chlorophenylphenyl ether																	
Fluorene																	
4-Hydroquinone																	

SEMI-VOLATILES	NYDA-B1-01	NYDA-B1-2	NYDA-B1-5	NYDA-B1-8	NYDA-B1-12	NYDA-B1-20	NYDA-B1-30	NYDA-B1-60	NYDA-B1-120	NYDA-B1-240	NYDA-B1-480	NYDA-B1-960	NYDA-B1-1920	NYDA-B1-3840	NYDA-B1-7680	NYDA-B1-15360	NYDA-B1-30720	NYDA-B1-61440	NYDA-B1-122880	NYDA-B1-245760	NYDA-B1-491520	NYDA-B1-983040	NYDA-B1-1966080	NYDA-B1-3932160	NYDA-B1-7864320	NYDA-B1-15728640	NYDA-B1-31457280	NYDA-B1-62914560	NYDA-B1-125829120	NYDA-B1-251658240	NYDA-B1-503316480	NYDA-B1-1006632960	NYDA-B1-2013265920	NYDA-B1-4026531840	NYDA-B1-8053063680	NYDA-B1-16106127360	NYDA-B1-32212254720	NYDA-B1-64424509440	NYDA-B1-128849018880	NYDA-B1-257698037760	NYDA-B1-515396075520	NYDA-B1-1030792151040	NYDA-B1-2061584302080	NYDA-B1-4123168604160	NYDA-B1-8246337208320	NYDA-B1-16492674416640	NYDA-B1-32985348833280	NYDA-B1-65970697666560	NYDA-B1-131941395333120	NYDA-B1-263882790666240	NYDA-B1-527765581332480	NYDA-B1-1055531162664960	NYDA-B1-2111062325329920	NYDA-B1-4222124650659840	NYDA-B1-8444249301319680	NYDA-B1-16888498602639360	NYDA-B1-33776997205278720	NYDA-B1-67553994410557440	NYDA-B1-135107988821114880	NYDA-B1-270215977642229760	NYDA-B1-540431955284459520	NYDA-B1-1080863910568919040	NYDA-B1-2161727821137838080	NYDA-B1-4323455642275676160	NYDA-B1-8646911284551352320	NYDA-B1-17293822569102704640	NYDA-B1-34587645138205409280	NYDA-B1-69175290276410818560	NYDA-B1-138350580552821637120	NYDA-B1-276701161105643274240	NYDA-B1-553402322211286548480	NYDA-B1-1106804644422573096960	NYDA-B1-2213609288845146193920	NYDA-B1-4427218577690292387840	NYDA-B1-8854437155380584775680	NYDA-B1-17708874310761169551360	NYDA-B1-35417748621522339102720	NYDA-B1-70835497243044678205440	NYDA-B1-141670994486089356410880	NYDA-B1-283341988972178712821760	NYDA-B1-566683977944357425643520	NYDA-B1-1133367955888714851287040	NYDA-B1-2266735911777429702574080	NYDA-B1-4533471823554859405148160	NYDA-B1-9066943647109718810296320	NYDA-B1-18133887294219437620592640	NYDA-B1-36267774588438875241185280	NYDA-B1-72535549176877750482370560	NYDA-B1-145071098353755500964741120	NYDA-B1-290142196707511001929482240	NYDA-B1-580284393415022003858964480	NYDA-B1-1160568786830044007717928960	NYDA-B1-2321137573660088015435857920	NYDA-B1-4642275147320176030871715840	NYDA-B1-9284550294640352061754431680	NYDA-B1-18569100589280704123088863680	NYDA-B1-37138201178561408246177727360	NYDA-B1-74276402357122816492355454720	NYDA-B1-148552804714245632984709109440	NYDA-B1-297105609428491265969418218880	NYDA-B1-594211218856982531938836437760	NYDA-B1-1188422437713965063877672875520	NYDA-B1-2376844875427930127755345751040	NYDA-B1-4753689750855860255510691502080	NYDA-B1-9507379501711720511021383004160	NYDA-B1-19014759003423441022042660082240	NYDA-B1-38029518006846882044085320164480	NYDA-B1-76059036013693764088170640328960	NYDA-B1-152118072027387528176341280657920	NYDA-B1-304236144054775056352682561315840	NYDA-B1-608472288109550112705365122631680	NYDA-B1-1216944576219100225410730245263360	NYDA-B1-2433889152438200450821460490526720	NYDA-B1-4867778304876400901642920981053440	NYDA-B1-9735556609752801803285841962106880	NYDA-B1-19471113219505603606571683924213760	NYDA-B1-38942226439011207213143367848427520	NYDA-B1-77884452878022414426286735696855040	NYDA-B1-15576890575604482885257347139370080	NYDA-B1-31153781151208965770514694278740160	NYDA-B1-62307562302417931541029388557480320	NYDA-B1-124615124604835863082058777114960640	NYDA-B1-249230249209671726164117554229921280	NYDA-B1-498460498419343452328235108459842560	NYDA-B1-996920996838686904656470216919685120	NYDA-B1-199384199367737380931294043383937280	NYDA-B1-398768398735474761862588086767874560	NYDA-B1-797536797470949523725176173535749120	NYDA-B1-1595073594941899047450352347071498240	NYDA-B1-3190147189883798094900704694142996480	NYDA-B1-6380294379767596189801409388285992960	NYDA-B1-12760588759535192379602818776571985920	NYDA-B1-25521177519070384759205637553143971840	NYDA-B1-51042355038140769518411275106287943680	NYDA-B1-102084710076281539036822550212575887360
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TABLE 6-1 (cont'd)
ANALYTICAL DATA
HOLEY 6000 STREET HUMP NORTH - EASTERN PORTION
HOLEY 6000 DATE 12/19/05
CASE 1 5363

CHEM. VOLATILES	NYD1-04-0		NYD1-04-2		NYD1-05-0		NYD1-05-2		NYD1-06-0		NYD1-06-2		NYD1-06-5	
	SOIL	UB/KG	SOIL	UB/KG	SOIL	UB/KG	SOIL	UB/KG	SOIL	UB/KG	SOIL	UB/KG	SOIL	UB/KG
1,6-Dinitro-2-Methylphenol		E												
1,4-Dinitrophenylamine		200000												
1-Bromophenylphenyl ether														
Hexachlorobenzene														
Polychlorophenol														
Phenanthrene														
Anthracene														
1,2,3,4-Tetrahydronaphthalene														
Fluoranthene														
Pyrene														
1-Methylphenylphthalate														
3,3'-Bichlorobenzidine														
Benzo(a)anthracene														
1,2,3,4-Tetrahydronaphthalene														
Chrysene														
1,2,3,4-Tetrahydronaphthalene														
Benzo(b)fluoranthene														
Benzo(k)fluoranthene														
Benzo(a)pyrene														
Indeno(1,2,3-cd)pyrene														
Dibenz(a,h)anthracene														
Benzo(g,h,i)perylene														

NOTES:

Blank space - compound analyzed for but not detected

E - analysis did not pass MD/DC requirements

J - compound present below the specified detection limit

D - compound found in laboratory blank as well as the sample

Indicates possible/probable blank contamination

TEST IDENTIFIERS	INVD1-B1-0	INVD1-B1-2	INVD1-B1-5	INVD1-B2-0	INVD1-B2-2	INVD1-B2-5	INVD1-B3-2
SAMPLE NUMBER	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
LOCUS	UO/KO	UO/KO	UO/KO	UO/KO	UO/KO	UO/KO	UO/KO
DATE							
Alpha-BHC		82	39	E	190	62	30
Beta-BHC				E			
Gamma-BHC				E			
Delta-BHC (Lindane)				E			
Heptachlor				E			
Aldrin				E			
Heptachlor Epoxide				E			
Endosulfan I				E			
Endosulfan II				E			
4,4'-DDT				E			
Endosulfan sulfate				E			
Endrin Aldehyde				E			
4,4'-DDE				E			
Endrin				E			
Endosulfan II				E			
4,4'-DDD				E			
Endosulfon sulfate				E			
Endrin Aldehyde				E			
4,4'-DDT				E			
Heptachlor				E			
Endrin Ketone				E			
Chlordane				E			
Toluene				E			
720				E			
Dioclor-1016				E			
Dioclor-1231				E			
Dioclor-1232				E			
Dioclor-1242				E			
Dioclor-1248				E			
Dioclor-1254		550		E			
Dioclor-1260			950	E			

Blank space -- compound analyzed for but not detected
E -- analysis did not pass EPA/NE requirements
J -- compound present below the specified detection limit
D -- compound found in laboratory blank as well as the sample, indicates possible/probable blank contamination

TABLE 5-1 (cont'd)
PHOTOGRAPHIC DATA
PHOTO: 6401 STREET PHOTO NUMBER -- EXISTING PORTION
PHOTO: 1000 DATE: 12/19/05
TABLE 5-563

PESTICIDE NAME	NYR1-D4-01 NYR1-B4-21 NYR1-B5-01 NYR1-B5-21 NYR1-B5-31 NYR1-B6-01 NYR1-B6-21 NYR1-B6-51						
SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
00/KG	00/KG	00/KG	00/KG	00/KG	00/KG	00/KG	00/KG
Alachlor EBC	56	20	11	14	7.7		
Acetate EBC							
BoAChlor EBC							
BoAChlor EBC (A. Andam)							
Heptachlor		91					
Alachlor							
Heptachlor Epoxide							
Endosulfan I							
Alachlor							
Alachlor EBC							150
Endrin							
Endosulfan II							
Alachlor EBC							
Endosulfan sulfate							
Endrin Aldehyde							
Alachlor EBC							
Heptachlor							
Endrin Ketone							
Chloridate							
Toxaphene							
Alachlor EBC-1016							
Alachlor-1221							
Alachlor-1232							
Alachlor-1242							
Alachlor-1240							
Alachlor-1254							
Alachlor-1260							

001151
Blank space - compound analyzed for but not detected
E - analysis did not pass 90/10; requirements
J - compound present below the specified detection limit
H - compound found in laboratory blank as well as the sample,
indicates possible/probable blank contamination

TABLE 6-1 (cont'd)
ANALYTICAL DATA
HOMEI 64TH STREET WHP NORTH - EASTERN PORTION
SAMPLING DATE: 12/19/85
CONE 5363

INORGANIC	NYD1-B1-0	NYD1-B1-2	NYD1-B1-5	NYD1-B2-0	NYD1-B2-2	NYD1-B2-5	NYD1-B3-0	NYD1-53-2
ANALYTE NUMBER	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG
ANTHRAX								
UNIT 15								
Aluminum	13279	9630	11700	5080	8750	10400	3850	7010
Antimony	J	J	J	J	J	J	12	6.4
Arsenic	J	6	J	6.1	J	J	156	J
Barium		175	168	J				
Beryllium								
Cadmium	12600	58000	65900	101000	98800	54400	J	50200
Calcium	19	43	36	16	18	25	15	14
Chromium								
Cobalt	25	J	75	26	25	58	18	28
Copper	20600	17500	21700	12800	14900	29500	18000	17300
Iron		219	179	79	73	91	107	219
Lead	6600	23600	12400	49600	48100	22100	J	23100
Magnesium	897	692	337	803	609	625	113	479
Manganese	0.25	E	E	1.4	1.2	0.31	0.39	1.2
Mercury	J	31	26	J	J	J	J	J
Nickel	J	J	J					
Potassium								
Selenium								
Silver								
Sodium	J	J	J	J	J	J	J	J
Thallium								
Tin	J	31	32	J	J	J	J	J
Vanadium	139	387	508	209	220	174	24	605
Zinc								

NOTED:
Blank space - compound analyzed for but not detected
E - analysis did not pass QA/QC requirements
J - compound present below the specified detection limit
D - compound found in laboratory blank as well as the sample
Indicates possible/probable blank contamination

TABLE 1 (cont'd)
ANALYTICAL DATA
NAME: 60TH STREET MHP NORTH - EASTERN PORTION
SAMPLING DATE: 12/17/83
CASE: 5363

ANALYTE	NYD1-84-01		NYD1-84-21		NYD1-85-01		NYD1-85-21		NYD1-85-51		NYD1-86-01		NYD1-86-21		NYD1-86-51	
	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG
Antimony	9100	J	12000	J	10200	J	10500	J	14200	J	11400	J	20500	J	13700	J
Barium	7.1	6.1	7.2	J	7.2	J	J	J	14	15	15	6.6	6.6	J	J	7
Beryllium	126	172	102	J	102	J	166	J	145	199	J	152	J	J	J	J
Cadmium		J	J	J	J	J	J	J	J	J	J	J	J	J	J	J
Calcium	101000	49000					76100	52600	53100	60600	104000					
Chromium	53	140	37				35	41	49	41	36					
Cobalt																
Copper	82	65	71				72	41	75	54	50					
Iron	24000	21500	19800				19000	20600	27300	30200	21000					
Lead	241	295	151				253	132	140	52						
Magnesium	33100	15000	23600				32400	20700	10100	10900	21400					
Manganese	756	610	729				630	500	1300	550	533					
Mercury	5	E	E				E	0.5	E	2.3	1.3					
Molybdenum	32	43	37				40	41	44	40	43					
Potassium	J	J	J				J	J	J	3500	J					
Selenium																
Silver																
Sodium																
Thallium	J	J	J				J	J	J	J	J					
Tin																
Zinc	34	34	33				40	30	35	52	41					
	304	376	291				404	325	310	147	347					

NOTE:
Blank space - compound analyzed for but not detected
E - analysis did not pass QA/QC requirements
J - compound present below the specified detection limit
B - compound found in laboratory blank as well as the sample,
indicates possible/probable blank contamination

Semi-Volatile Organic Compounds

With the exception of NYB1-S4-2, each of the samples analyzed contained varying amounts of polycyclic aromatic hydrocarbons (PAHs). Naphthalene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, acenaphthalene, chrysene, acenaphthene, benzo(ghi)perylene and their derivatives were detected at concentrations as high as 26,000 ug/kg. Although not reported here, other substituted PAHs were also tentatively identified in these samples. Sample NYB1-S4-2 contained 200,000 ug/kg of N-nitrosodiphenylamine. Sample NYB1-S2-5 contained 1200 ug/kg of dibenzofuran. Phenolic and benzene based compounds and other semi-volatile compounds were detected in one or more samples in amounts below the analytical laboratory's quantitation limits.

Pesticides and PCBs

Ten samples contained varying concentrations of alpha-BHC with the highest concentration, 190 ug/kg, found in sample NYB1-S2-2. Sample NYB1-S1-0 contained chlordane at a concentration of 720 ug/kg. Sample NYB1-S4-2 contained aldrin at a concentration of 91 ug/kg and sample NYB1-S6-5 contained 4,4'-DDE at a concentration of 150 ug/kg. Sample NYB1-S1-2 contained 550 ug/kg of the PCB mixture Aroclor 1254 and sample NYB1-S1-5 contained 950 ug/kg of Aroclor 1260. No other pesticides or PCBs were detected.

Inorganic Compounds

Concentrations of a number of inorganic compounds present in the samples were in excess of that normally found in soils (Bohn et al., 1979). Mercury was detected at elevated levels in ten samples. Lead and zinc were also detected at elevated levels in at least four samples. The remaining inorganic compounds detected were within the expected concentration range found in natural soils.

REFERENCE 8

New York State Atlas of Community Water System Sources

1982

NEW YORK STATE
DEPARTMENT OF HEALTH

Recycled paper

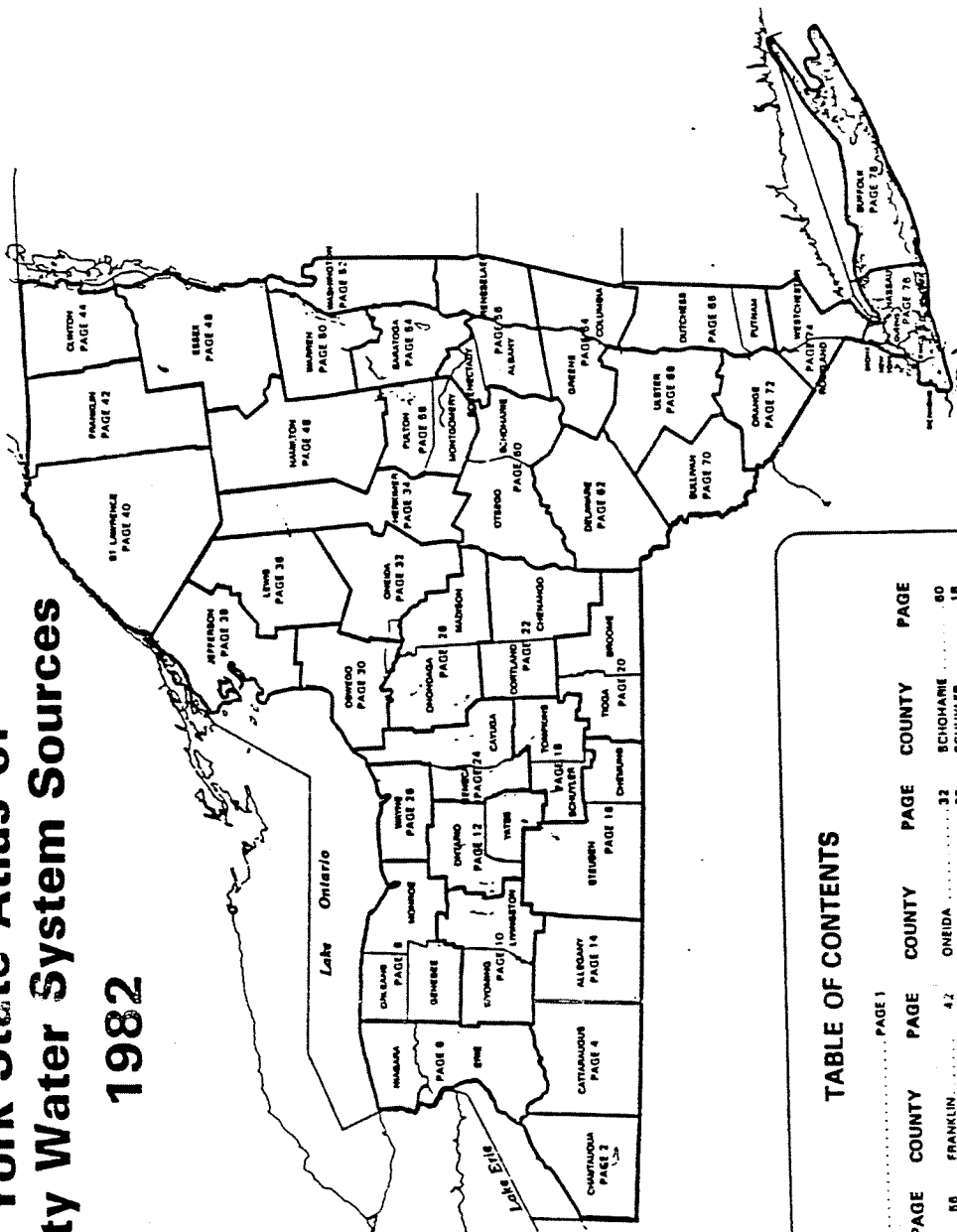


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ecology and environment

LEGEND

BOUNDARIES AND PLACES

- International
- State
- County
- Town
- Indian Reservation
- City
- Village
- Unincorporated Place
- Federal Reservation
- Built-up Area (Over 25 000 population including any contiguous city or village)

CLASSIFICATION OF POPULATED PLACES

- 100,000 or more
- 60,000 to 100,000
- 12,500 to 60,000
- 2,500 to 12,500
- 250 to 2,500
- 250 or less

TRANSPORTATION

- Highways
- Divided Highways
- Full Control of Access
- Partial or No Control of Access
- Undivided Highway
- Interchange
- Touring Route (State, U.S. Interstate)
- Touring Route Markers
- Touring Route Markers
- State, U.S. Interstate

- Railroads
- Operating Line
- Service Discontinued
- Operator
- Owner (If Other than Operator)
- Company Having Trackage Rights
- Airports (Open to the Public, Military)
- Runway under 4000'
- Runway over 4000'

- Rest Areas
- Food, Gas, Rest Rooms
- Gas, Rest Rooms
- Rest Rooms
- Parking Only

RECREATION FACILITIES

- State or National Recreation Area
- State Campground
- State Boat Launching Site
- State Canal Park
- State Fish Hatchery
- Other State Recreation Site

DRAFT
11/1/82

ERIE COUNTY

NIAGARA COUNTY

ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE
Municipal Community			
Akron Village (See No 1 Wyoming Co., Page 10).			
1	Alden Village.	3640.	Wells
2	Angola Village.	3460.	Wells
3	Buffalo City Division of Water.	8500.	Lake Erie
4	Carree Water Company.	357870.	Lake Erie
5	Collins Water District #1.	210.	Wells
6	Collins Water Districts #1 and #2.	704.	Wells
7	Erie County Water Authority (Sturgeon Point Intake).	1384.	Wells
8	Erie County Water Authority (Van DeWater Intake).	375000.	Lake Erie
9	Grand Island Water District #2.	NA.	Niagara River - East Branch
10	Holland Water District.	9390.	Niagara River
11	Lavtons Water Company.	1670.	Wells
12	Lockport City (Niagara Co.).	138.	Wells
13	Niagara County Water District (Niagara Co.).	1500.	Niagara River - East Branch
14	Niagara Falls City (Niagara Co.).	1500.	Niagara River - West Branch
15	North Collins Village.	1500.	Wells
16	North Tonawanda City (Niagara Co.).	3671.	Niagara River - West Branch
17	Orchard Park Village.	4169.	Pipe Creek Reservoir
18	Springville Village.	18338.	Wells
19	Tonawanda City.	91269.	Niagara River - East Branch
20	Tonawanda Water District #1.	10750.	Niagara River
21	Manakah Water Company.	10750.	Lake Erie

Non-Municipal Community

22	Aurora Mobile Park.	125.	Wells
23	Bush Gardens Mobile Home Park.	270.	Wells
24	Circle 8 Trailer Court.	50.	Wells
25	Circle Court Mobile Park.	125.	Wells
26	Greenside Mobile Home Park.	120.	Wells
27	Donnelly's Mobile Home Court.	99.	Wells
28	Covanda State Hospital.	NA.	Clear Lake
29	Hillside Estates.	160.	Wells
30	Hunters Creek Mobile Home Park.	150.	Wells
31	Knox Apartments.	NA.	Wells
32	Maple Grove Trailer Court.	72.	Wells
33	Hillgrove Mobile Park.	100.	Wells
34	Perkins Trailer Park.	75.	Wells
35	Quarry Hill Estates.	400.	Wells
36	Springville Mobile Park.	114.	Wells
37	Springwood Mobile Village.	132.	Wells
38	Taylor's Grove Trailer Park.	39.	Wells
39	Valley View Mobile Court.	42.	Wells
40	Villager Apartments.	NA.	Wells

ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE
Municipal Community			
Lockport City (See No 12, Erie Co.). 25000			
1	Middleport Village.	2000.	Wells (Springs)
Niagara County Water District (See No 13, Erie Co.).			
2	Niagara Falls City (See also No 14 Erie Co.).	77384.	Niagara River - East Branch
North Tonawanda City (See No 16 Erie Co.). 36000			
Non-Municipal Community			
3	Country Estates Mobile Village.	28.	Wells

DRAFT

LOCATION OF COMMUNITY WATER SYSTEM SOURCES-1982

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF PUBLIC WATER SUPPLY PROTECTION

ERIE and NIAGARA COUNTIES



600 Delaware Avenue, Buffalo, New York 14202-1073

February 26, 1985

Ms. Martha M. Reed
8420 Lindbergh Avenue
Niagara Falls, New York 14304

Dear Ms. Reed:

This is in response to your letter of February 7, 1985 regarding the disposal of wastes near 66th Street in Niagara Falls.

I requested one of our Environmental Conservation Officers to contact you and discuss this matter further. I believe Officer Donald Becker contacted you on February 14, 1985 to review the information you possess concerning disposal activities near 66th Street.

Although our records indicate that fly ash was disposed at the site of the Niagara Catholic High School in the 1950's, we have no specific information in our files regarding the disposal of wastes at the 66th Street School.

The Niagara County Health Department is currently reviewing historical information to determine if waste disposal occurred at the 66th Street School. We will review the results of their investigation to determine the need for follow up investigative activities.

Thank you for providing us with background information on the 66th Street area.

Sincerely,

John J. Spagnoli
Regional Director

PJB/ad

bcc: Mr. John McMahon
Mr. Peter Buechi
Mr. Michael Hopkins (w/incoming)

John Spagnoli
 New York State D.C.C.
 600 Delaware Ave.
 Buffalo, N.Y. 14203

John Spagnoli:

This letter is coming to you because it is apparent that there is much concern and discussion about there being a Chemical Hazard in the 66th Street Area.

I am Martha M Reed

8420 Lindbergh Ave.

Neagana Falls, N.Y. 14304

phone (516) 283-9546

I am the fourth born child of Mr. Mrs. William Sulove who owned property and lived at 666-66th Street as far back as the early 20's. I remember one of our homes burning down in 1931. Someone of us children has always and still lives in the same place and surrounding areas.

I infact now am the owner of the original homestead addressed today as 724-66th Street. My one sister, Emmaine Served lives at

723-66th Street and another sister lives at 680-66th Street.

In the 1930's early 40's there were approximately eight families living in the area from 66th St to 70th St. Much of the land at that time was wooded and a deep creek running snakewise from 66th St to 71st St. and the high speed tracks.

In 1941 that land began to be filled in by various trucking firms sub-contracted by Walter Kazarowski.

My knowledge of this comes from my husband Lee H Reed who owned and operated one of two trucks that in 1942 hauled topsoil to cover the chemicals or hazardous waste products.

There was a tragic accident which occurred because of the right being left open and unguarded that took the life of 3 yr old

Joseph Brown, son of Mr Mrs Charles Brown who now reside at 307 Pier St.

NLYA Naples, Florida

33962

It is believed by me that there is a positive concern for the people living on the east side of 66th Street

It is unfortunate that for many years now it has been a question in my mind as to why so many in my own family have had serious health problems. It is not till we are made aware of various situations in which we may be a victim of until it strikes home.

The Love Canal has opened a new direction for eliminating so many fears of continual unanswered questions about what might of happened just before we moved into an area or if always a resident, "What really was happening to those of us that were right there through the entire process"? But had no say so.

Sincerely

Feb 7, 1985 Martin M Reed

DRAFT

NOLD • MILLER • Troy, New York

CORRESPONDENT

Martha M. Reed

Addressed to *J. M. Miller*

Date: *Feb 7 1985*

Subject

*66 Hudson
(Pine Hills)*

ROUTE TO

DATE

*J. M. Miller
P. Miller*

2/12/85

2/12/85

- ☐ Reply for Assistant Commissioner's Signature
- ☒ Reply for Director's Signature
- ☐ Reply direct; return cc of reply
- ☐ Other

*Should I refer this to J. Lee
for investigation?*

Date Due *2/14*

NEW YORK STATE

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

10-17-4 (9/80) Formerly CA-54

TEXAS BRINE CORP. BRINE PIPELINE
SOIL EXCAVATION AND DISPOSAL PLAN
COVERING

EXCAVATION ACTIVITIES IN POTENTIALLY CONTAMINATED AREAS

July 29, 1986

I. INTRODUCTION

The Niachlor brine pipeline will pass through or adjacent to a number of areas where the New York Department of Environmental Conservation has indicated that soil contamination could be present. Soil samples were obtained from locations along the pipeline route and analyzed for the presence of pollutants of concern.

II. SUMMARY

The Niachlor pipeline will traverse six areas within Niagara County which the NYSDEC has indicated may be contaminated with pollutants which pose a threat to the environment. These areas include

- A. Adjacent to the Niagara Sanitation Company Nash Road site (NASH ROAD)
- B. The Charles Gibson - Pine and Tuscarora site (GIBSON SITE)
- ⇒ C. Adjacent to the 64th Street North site (64th STREET)
- D. The area south of CECOS sanitary landfill and secure landfill and north of Basic Carbon Company and Great Lakes Carbon Company (the NIAGARA FALLS BOULEVARD Area) and
- E. The area south of the Airco/Speer area.
- F. Adjacent to the Niagara Falls DuPont Plant site.

Samples were collected within the pipeline right-of-way within each of these areas and were analyzed for priority pollutants, EPTOX extractable metals and BHC isomers, and subjected to a library search of their mass spectra. These analyses indicate that the pipeline right-of-way is substantially free of contaminants which would present a threat to the environment. The soil in the areas of the Gibson site, the 64th Street site, and the Niagara Falls Boulevard areas contains quantities of polynuclear

II. SUMMARY (Cont'd)

aromatic compounds. While it is feasible to excavate these materials without special precautions, Niachlor excavation work will be controlled such that dust levels around the excavations are maintained below a 5 mg/m³ respirable dust nuisance level and damp or wet surfaces will be maintained on all soil piles in these areas in order to minimize airborne dust. There will be no need for specialized personnel protective equipment for construction workers. Excess soil, although not expected, can be disposed in a sanitary land fill.

The area adjacent to the DuPont plant site contains locations where volatile organic pollutants exceed 10 ppm in soil, the NIACHLOR project criteria for special handling. In these locations the top 1 foot of backfill will be clean fill and excess soil, if any, will be disposed in a secure landfill. Safety and health precautions are presented in the report "Health and Safety Plan Brine Pipeline Construction Niachlor Project" which has been submitted separately to the New York State Department of Environmental Conservation.

III. SOIL SAMPLING AND ANALYSIS

During April, 1986, soil samples were collected at locations along the pipeline route and within the nominal boundaries of the areas of possible concern. Twenty two center-line and seven surface, flank samples were collected. The details of collection methodology are described Exhibit II.

Each center-line soil sample was analyzed for particle size distribution. In addition, the soil samples were analyzed for the following priority pollutants

- volatile organic compounds
- acid extractable compounds
- base/neutral compounds
- pesticide/PCB compounds
- metals.

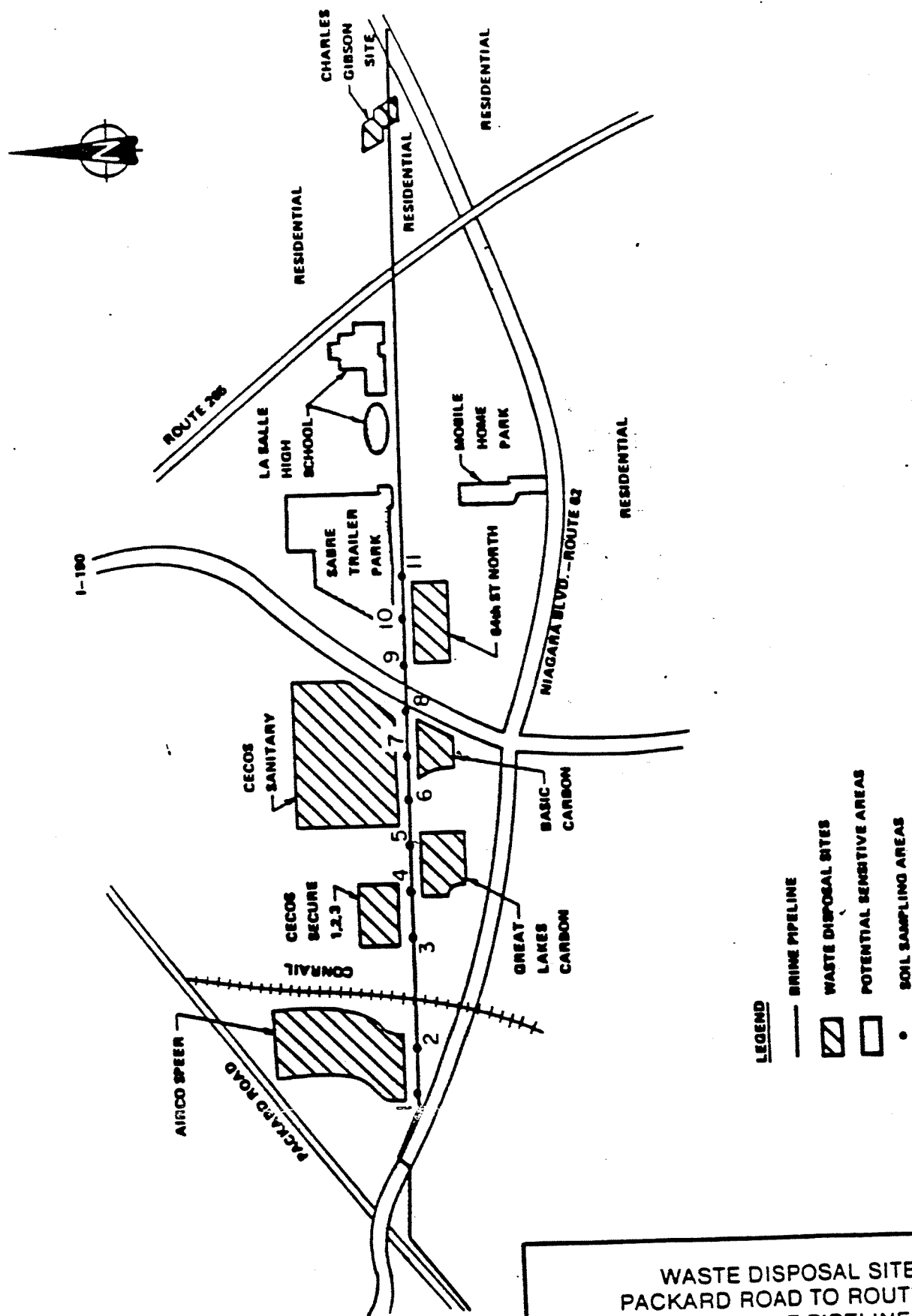
Each sample was further analyzed for the presence of the conventional pollutants phenols and cyanides. EPTOX extracts of each sample were further analyzed for the presence of RCRA characteristic metals and the isomers of BHC. Finally, a mass spectra library was searched in an attempt to match mass spectra for non-priority pollutants with the mass spectra of known compounds.

C. 64TH STREET NORTH SITE

Three center-line sample locations were established at the 64th Street North site. These locations were designated as Locations 9A, 10A, and 11A. Composite samples over the depth 0.5 to 4 feet were obtained from each location. A field duplicate was obtained at Location 10A. In addition, a composite of surface samples from the flank (B-C locations) was obtained. The locations of the Nash Road samples are shown in Figure 3.

1. Physical Characterization

Samples from each center-line location were subjected to grain size analysis by WCC. The results of these analyses are summarized in Table 7. Test pit logs and details of the grain size analyses are included in Exhibit III.



WASTE DISPOSAL SITES
PACKARD ROAD TO ROUTE 265
NIACHLOR BRINE PIPELINE ROUTE
SOIL SAMPLING PROGRAM

IV. ANALYTICAL RESULTS

C. 64TH STREET NORTH SITE

1. Physical Characterization

The soil at the three 64th Street sample locations was fill to a depth of 4 ft. At location 9A, the fill consisted of a clayey silt with traces of rock fragments and debris. Water was encountered at 3 feet. Moving eastward, the fill remained a clayey silt, with debris, but became peaty at 3 feet. Water entered the test pit at the 1.5 feet depth. Finally, at location 11A, the pattern found at location 10 was repeated. Clayey silt and silty clay, interspersed with debris, were found to a depth of over 3.5 feet. Below that level, an organic rich silty clay (peat) was encountered.

2. Chemical Characterization

Each of the samples from the 64th Street site was analyzed for priority pollutants and the conventional pollutants cyanide and phenols. In addition, EPTOX extracts were analyzed for the isomers of BHC and the RCRA metals. Finally, a library search was conducted for matches to the non-priority pollutant GC/MS spectra for the soil samples. The results of all positive conventional and priority pollutant analyses are tabulated in Table 8. Compounds tentatively identified from their mass spectra through library search and their approximate concentrations are listed in Table 9. A more complete listing of the peaks isolated during GC/MS analysis is included in Exhibit I-3.

Volatile Organics

The only volatile organic priority pollutant consistently detected in 64th street samples was methylene chloride, a common laboratory contaminant. Methylene chloride concentrations were reported between the method detection limit and 38 ug/kg. In addition to the methylene chloride detections, tetrachloroethylene was found in the samples from location 9A and the flank sample, at concentrations of 32 ug/kg and BMDL, respectively. Total volatile organic priority pollutant concentrations were well below the project special handling criteria of 10 mg/kg.

Acid Extractable Compounds

No acid extractable priority pollutant was consistently found in the 64th street samples. A trace of phenol (210 ug/kg) was found in the field duplicate, but not in sample 10A. Similarly, 2,4,6-trichlorophenol was found in sample 10A, but not in the field duplicate.

IV. ANALYTICAL RESULTS

C. 64TH STREET NORTH SITE

2. Chemical Characterization

Base/Neutral Compounds

A number of base/neutral priority pollutants, primarily polynuclear aromatics, were found in the 64th Street site samples. The analyses indicate that these compounds are uniformly distributed along the pipeline right-of-way within the site. Total base/neutral priority pollutant concentrations ranged from 16 to 38 mg/kg. The predominant base/neutral compounds included anthracene, chrysene, fluoranthene, fluorene, phenanthrene, and pyrene. Benzo(a)anthracene, benzo(a)pyrene, and benzo(b)-fluoranthene contributed significantly, as well.

Pesticides/PCBs

Pesticide and PCB analyses indicated that PCBs were not present in the 64th Street samples, and that the only pesticide present in detectable amounts was BHC. BHC isomers were detected at locations 10A and in the flank composite samples. The concentrations which were noted were low and detections were not consistent. For example, Sample Q2, the field duplicate analyzed positive (BMDL) for the alpha- and gamma- isomers, and 220 ug/kg for the Beta isomer of BHC. On the other hand, sample 10A was analyzed to contain 1300 ug/kg of alpha-BHC (vs BMDL). The remaining isomers were not detected in this sample. The flank sample was reported to contain only beta-BHC, and at a concentration of 900 ug/kg.

Metals

The 64th Street site samples were analyzed for the ten priority pollutant metals. While most priority pollutant metals were present, concentrations were generally low and were not at levels of concern. While lead levels were somewhat elevated, the lack of lead in the EPTOX extract indicates that the lead is not mobile, and would not be expected to pose a threat to the environment. Note also the low, or not detectable, concentrations of other metals in EPTOX extracts (below).

Conventional Pollutants

Neither cyanide nor phenols were detected in any 64th Street site samples.

1254F (323A)

IV. ANALYTICAL RESULTS

C. 64TH STREET NORTH SITE

2. Chemical Characterization

EPTOX Extract Analyses

EPTOX extracts of the samples from locations 9A, 11A (and Q2), and the flank sample contained between 0.35 mg/l and 0.74 mg/l of selenium. This concentration is below the RCRA hazardous waste criteria of 1 mg/l. The extract from the location 9A sample also contained a trace (BMDL) of alpha-BHC. Again the concentration was below the RCRA hazardous waste criteria.

Other Constituents Tentatively Identified

A library search of the mass spectra of the priority pollutant extracts was conducted in an effort to determine whether gross contamination from any non-priority pollutant was present and to identify any common pollutants which may be present, but not contained on the priority pollutant list. Approximate concentrations, as indicated from the libraries, were also reported. The compounds tentatively identified via this procedure are listed in Table 9.

No peak was noted which would indicate gross contamination from any source. Furthermore, no contaminant was identified which is identifiable as a pollutant of concern. Only 3,4-dimethyl-2-pentene was found to occur in more than two samples. The field duplicate sample from location 10A (sample Q2) was reported to contain 1900 ug/kg of the compound, while the other sample from the same test pit was not reported to contain dimethyl-2-pentene. The flank sample was reported to contain nearly 1 mg/kg of the material, while sample 9A was reported to contain approximately 300 ug/kg. The maximum estimated concentration of any compound tentatively identified through the library search procedure was 4800 ug/kg, for 4-methyl-3-pentene-2-one.

1254F (323A)

TABLE 7. 64TH STREET NORTH SITE

GRAIN SIZE CHARACTERIZATION

Test Pit Number	Mean Grain Size	% Finer Than 200 Mesh	Description
9A	1 mm	15%	Clayey SILT with trace rock fragments, decaying wood, and general debris. Water at 3 ft.
10A	2.8 mm	12%	Clayey SILT with debris. Becomes peaty at 3-4 ft. Water flowing into test pit from 1.5 ft.
11A	1.5 mm	9%	Fill to 3 ft. Clayey SILT with rock fragments, etc 0-1.5 ft. Clayey SILT/silty CLAY with fragments 1.5-3 ft. Silty CLAY (PEAT) 3-3.8 ft. Clayey SILT 3.8-4 ft.

1254F (323A)

TABLE 8. 64TH STREET NORTH SITE

POSITIVE PRIORITY POLLUTANT ANALYSES
(All results in ug/kg, unless noted)

COMPOUND	SAMPLE LOCATION				
	9A	10A	10A FIELD DUPLICATE Q2	11A	PLANK COMPOSITE
VOLATILE ORGANICS					
Methylene Chloride	BMDL	20	26	38	32
Tetrachloroethylene	32	-	-	-	BMDL
ACID EXTRACTABLE COMPOUNDS					
Phenol	-	-	210	-	-
2,4,6-Trichlorophenol	-	BMDL	-	-	-
BASE/NEUTRALS					
Acenaphthene	920	600	400	400	370
Acenaphthylene	230	200	180	BMDL	380
Anthracene	3100	1300	500	530	970
Benzo(a)anthracene	-	4800	1300	1300	2800
Benzo(a)pyrene	-	13000	300	1500	1400
Benzo(b)fluoranthene	-	14000	1100	5300	1700
Benzo(ghi)perylene	-	1300	230	BMDL	990
Benzo(k)fluoranthene	-	-	-	-	1100
Bis(2-ethylhexyl)phthalate	-	560	BMDL	490	390

- - - - - Not Detected.					
- BMDL - Below Method Detection Limit.					

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1254P (323A)

TABLE 8. 64TH STREET NORTH SITE
POSITIVE PRIORITY POLLUTANT ANALYSES
(All results in ug/kg, unless noted)

COMPOUND	SAMPLE LOCATION				FLANK COMPOSITE
	9A	10A	10A FIELD DUPLICATE	11A	
Butyl Benzyl Phthalate	-	BMDL	BMDL	-	-
Chrysene	-	5500	2000	-	2600
Dibenzo(ah)anthracene	-	640	BMDL	-	470
1,2-Dichlorobenzene	160	90	BMDL	-	-
1,3-Dichlorobenzene	260	-	-	-	-
1,4-Dichlorobenzene	280	210	BMDL	-	-
Fluoranthene	13000	4500	5200	3000	8300
Fluorene	1300	620	660	210	370
Hexachlorobenzene	560	280	330	-	570
Hexachlorobutadiene	290	40	210	-	-
Hexachloroethane	280	-	-	-	-
Indeno(1,2,3,-c,d)pyrene	-	1400	190	220	920
Naphthalene	420	540	360	220	190
N-Nitrosodiphenylamine	-	-	-	BMDL	-
Phenanthrene	10000	4200	2200	1800	3300
Pyrene	9900	3700	4600	2300	6600
1,2,4-Trichlorobenzene	650	450	340	BMDL	190

Not Detected.
'BMDL' = Below Method Detection Limit.

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1254P (323A)

TABLE 8. 64TH STREET NORTH SITE
POSITIVE PRIORITY POLLUTANT ANALYSES
(All results in ug/kg. unless noted)

COMPOUND	SAMPLE LOCATION				FLANK, COMPOSITE
	9A	10A	10A FIELD DUPLICATE Q2	11A	
PESTICIDES/PCB's					
Alpha-BHC	-	1300	BMDL	-	-
Beta-BHC	-	-	220	-	900
Gamma-BHC	-	-	BMDL	-	-
PCB1248	-	-	BMDL	-	-
METALS - RESULT IN MG/KG					
Antimony	7.2	BMDL	BMDL	-	BMDL
Arsenic	4	6	5	3	7
Beryllium	0.57	0.54	0.55	0.53	0.51
Cadmium	BMDL	0.92	BMDL	-	0.45
Chromium	63	75	36	30	51
Copper	63	75	50	36	110
Lead	340	320	170	38	350
Mercury	6.8	1	2	0.50	5.8
Nickel	25	24	25	21	22
Selenium	-	BMDL	BMDL	-	-
Silver	BMDL	-	-	-	BMDL
Thallium	BMDL	BMDL	BMDL	-	BMDL
Zinc	260	380	250	160	320

' - ' = Not Detected.
'BMDL' = Below Method Detection Limit.

TABLE 8. 64TH STREET NORTH SITE
POSITIVE PRIORITY POLLUTANT ANALYSES
(All results in ug/kg. unless noted)

COMPOUND	SAMPLE LOCATION			
	9A	10A	10A FIELD DUPLICATE Q2	11A FLANK COMPOSITE
CONVENTIONAL POLLUTANTS				
none detected				
RCRA EPTOX EXTRACT ANALYSES -- expressed in mg/l				
Selenium	0.35	-	0.74	0.38
Alpha-BHC	BMDL	-	-	0.56

Not Detected.				
BMDL = Below Method Detection Limit.				

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1254P (J23A)

TABLE 9. 64TH STREET NORTH SITE
COMPOUNDS TENTATIVELY IDENTIFIED IN SOIL
RESULTS OF MASS SPECTRA LIBRARY SEARCHES
(All results in ug/kg)

COMPOUND	SAMPLE LOCATION			11A	FLANK COMPOSITE
	9A	10A	10A FIELD DUPLICATE Q2		
VOLATILE COMPOUNDS					
1,1,2,3,4,4-hexachloro-1,3 Butadiene	120	-	-	-	-
ACID EXTRACTABLE COMPOUNDS					
4-Methyl-3-Pentene-2-one	-	1300	-	4800	-
BASE/NEUTRAL COMPOUNDS					
3,4-Dimethyl-2-Pentene	290	-	1900	-	930
Chloro-methyl Benzene	-	2700	-	-	-
Dichloromethyl-benzene	290	-	-	-	-
Dichloro-chloromethyl Benzene	610	-	-	-	-
Tetrachlorobenzene	1070	-	1500	-	-
Trichlorobenzamine	-	-	-	-	-
Dimethyl Naphthalene	-	3290	-	-	-
Dibutyl-2-Butenedioicacid	-	-	-	200	-
Methyl Phenanthrene	270	-	-	-	-
Benzothiazolethione	-	-	-	-	1300
Hexadecanal	-	-	-	200	-
Benzo(b)fluorene	-	-	-	-	2500
Benzo(a)fluorene	-	-	-	-	910
Diethyl Hexandioic acid	-	-	-	350	-

--- = Not Detected

1254P (0329A)

V. RIGHT-OF-WAY CONTAMINATION ASSESSMENT

C. 64TH STREET NORTH SITE

- Base/neutral priority pollutants were present in all the 64th Street site samples. The compounds which were identified were the polynuclear aromatics associated with incomplete combustion. Total base/neutral compound concentrations ranged from 16 to 38 mg/kg. Organic compounds of this type are highly insoluble and not expected to be mobile in the environment. The U.S. EPA has evaluated the hazard associated with disposal of several industrial wastes with similar concentrations of polynuclear aromatics and concluded that disposal to a secure landfill is not required and that those wastes would not require management as hazardous wastes. (See Federal Register notice on two delisting petitions attached as Exhibit IV.)

While polynuclear aromatic compounds are not expected to be mobile in the groundwater, at the concentrations encountered at the site, the potential for airborne transport of these materials during construction has been evaluated. Airborne particulate containing 40 mg/kg of polynuclear aromatic compounds, if present at the nuisance dust concentration of 5 mg/m³, would result in ambient air polynuclear aromatic concentrations of 5×10^{-8} gm/m³. This ambient concentration would be 1/1000 of the TLV for coal tar pitch volatiles (0.2 mg/m³). However, polynuclear aromatics, such as benzo(a)pyrene, are suspect carcinogens. Minimization of the amount of such materials carried with airborne dusts is desirable. Consequently, basic dust suppression techniques, such as maintaining a damp or wet surface on all open soil piles, will be practiced.

- Part per million concentrations of priority pollutant metals were detected. However, none were detected in sufficient concentration to represent a threat to the environment or the neighboring population.
- Analyses of EPTOX extracts of the site soil samples for metals and BHC isomers were all below the detection limits of the analytical methods.
- Library searches of the GC/MS mass spectra did not identify the presence of any pollutants of concern. Several compounds which are structurally similar to the polynuclear aromatic priority pollutants were tentatively identified.

V. RIGHT-OF-WAY CONTAMINATION ASSESSMENT

C. 64TH STREET NORTH SITE

Based on the above analyses, the soil in the pipeline right-of-way across the 64th Street North site will be considered to be free of contamination for the purposes of disposal. Disposal of any excess soil from excavation will be to a sanitary landfill. Dust from construction activities will be controlled within the nuisance dust criteria of 5 mg/m^3 and dust will be suppressed by keeping all soil piles wetted. It will not be necessary for construction personnel to employ extra personnel protective equipment. Finally, it will not be necessary to monitor the off-site environment for pollutant migration during construction.

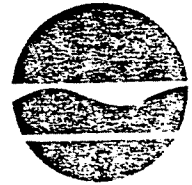
D. NIAGARA FALLS BOULEVARD: I-190 TO CONRAIL OVERPASS

Priority pollutant analyses of soil samples obtained along Niagara Falls Boulevard, between I-190 and the Conrail Overpass indicate that while soil within the pipeline right-of-way contains compounds from the base/neutral priority pollutant family, all other priority pollutants are present only in very low amounts.

- No RCRA hazardous waste criteria were exceeded in the EPTOX analyses.
- The volatile organic priority pollutant content of all samples was well below the project criteria of 10 mg/kg. The maximum observed concentration of volatile organic priority pollutants was less than 0.50 mg/kg.
- One sample contained 2,4-dimethylphenol in the acid extractable fraction. The concentration of this material was below the method detection limit of 89 ug/kg. This concentration is not believed to pose a threat to the environment.
- Base/neutral priority pollutants were present in all the samples in this area. The compounds which were identified were the polynuclear aromatics associated with incomplete combustion. Total base/neutral compound concentrations ranged from 0.2 to 270 mg/kg. The higher concentration is believed to be non-representative, and a practical upper bound of 90 mg/kg is believed to exist. Organic compounds of this type are highly insoluble and not expected to be mobile in the environment. The U.S. EPA has evaluated the hazard associated with disposal of several industrial wastes with similar concentrations of polynuclear aromatics and concluded that such wastes would not require management as hazardous wastes or disposal to a secure landfill. (See Federal Register notice on two delisting petitions attached as Exhibit IV).

New York State Department of Environmental Conservation
270 Michigan Avenue, Buffalo, New York 14203-2999

*Ind
12/3*



Langdon Marsh
Commissioner

MEMORANDUM

HAZARDOUS
CONTROL
ACTION

TO: Jane Thapa, BHSC
FROM: Michael Hinton, Region 9 *MH*
SUBJECT: 64th Street North Site #932085A
DATE: November 29, 1994

12/6/94

*To: Barbara Fish
From: Jane Thapa*

I have recently learned that Fish and Wildlife has mapped the freshwater wetland found on the 64th Street North site.

This was done at the request of Jack Johnson who is planning to develop a parcel south of the 64th Street site. As part of the development plan, Mr. Johnson is proposing to mitigate the wetlands which may involve the 64th Street North site.

As part of the wetland mapping by the Department, a rare species of chimney building crayfish was found in the area highlighted in yellow on the attached map. There are only 3 other areas in New York State that support these rare cray fish. Fish and Wildlife is insisting that this wetland area be maintained, protected and improved.

The remaining wetland found on our site have been determined to be insignificant and Fish and Wildlife will have no concerns if these areas are disturbed for either development or remediation purposes.

Mr. Ken Roblee Region 9 Fish and Wildlife Biologist may be calling you in the near future to discuss the matter further.

This wetland issue may have a bearing on our PSA decision if contaminants from the site are impacting the crayfish habitat. This information should be forwarded to our consultants for inclusion in the PSA report.

ad
cc: Mr. Daniel King
Mr. Ken Roblee - Fish and Wildlife

APPENDIX E

PRESCORE

PREscore 3.0 - PRESCORE.TCL File 07/25/94
NPL Characteristics Data Collection Form
64th Street-North - 09/18/95

PAGE: 1

Record Information

1. Site Name: 64th Street-North
(as entered in CERCLIS)
2. Site CERCLIS Number:
3. Site Reviewer: Ecology & Environment Engineering, P.C.
4. Date: 3/6/95
5. Site Location: Niagara Falls/Niagara, New York
(City/County,State)
6. Congressional District: 33
7. Site Coordinates: Multiple
Latitude: 43 05'32. Longitude: 078 59'29.

Site Description

1. Setting: Suburban
2. Current Owner: Multiple Owners
3. Current Site Status: Inactive
4. Years of Operation: Inactive Site, from and to dates: 1940's-1970's
5. How Initially Identified: Citizen Complaint
6. Entity Responsible for Waste Generation:
 - Other - City of Niagara Falls
 - Manufacturing
 - Industrial Organic Chem.
 - Landfill
 - Both
7. Site Activities/Waste Deposition:
 - Municipal Landfill
 - Industrial Landfill
 - Illegal Dumping

PREscore 3.0 - PRESCORE.TCL File 07/25/94
NPL Characteristics Data Collection Form
64th Street-North - 09/18/95

PAGE: 2

Waste Description

8. Wastes Deposited or Detected Onsite:

- Organic Chemicals
- Inorganic Chemicals
- Metals
- Municipal Waste
- Construction Waste
- PCP

Response Actions

9. Response/Removal Actions:

RCRA Information

10. For All Active Facilities, RCRA Site Status:

- Not Applicable

Demographic Information

11. Workers Present Onsite: Yes

12. Distance to Nearest Non-Worker Individual: > 10 Feet - 1/4 Mile

13. Residential Population Within 1 Mile: 5902.0

14. Residential Population Within 4 Miles: 75000.0

Water Use Information

15. Local Drinking Water Supply Source:

- Surface Water (within 15 mile distance limit)

16. Total Population Served by Local Drinking Water Supply Source: 62000)

PREscore 3.0 - PRESCORE.TCL File 07/25/94
NPL Characteristics Data Collection Form
64th Street-North - 09/18/95

PAGE: 3

17. Drinking Water Supply System Type for Local Drinking
Water Supply Sources:

- Municipal (Services over 25 People)

18. Surface Water Adjacent to/Draining Site:

- Other - Sewer System

PREscore 3.0 - PRESCORE.TCL File 07/25/94
 HRS DOCUMENTATION RECORD
 64th Street-North - 09/18/95

PAGE: 1

1. Site Name: 64th Street-North
(as entered in CERCLIS)
2. Site CERCLIS Number:
3. Site Reviewer: Ecology & Environment Engineering, P.C.
4. Date: 3/6/95
5. Site Location: Niagara Falls/Niagara, New York
(City/County, State)
6. Congressional District: 33
7. Site Coordinates: Multiple

Latitude: 43 05'32.

Longitude: 078 59'29.

	Score
Ground Water Migration Pathway Score (Sgw)	0.16
Surface Water Migration Pathway Score (Ssw)	0.27
Soil Exposure Pathway Score (Ss)	1.25
Air Migration Pathway Score (Sa)	5.50
Site Score	2.82

NOTE

EPA uses the terms "facility," "site," and "release" interchangeably. The term "facility" is broadly defined in CERCLA to include any area where hazardous substances have "come to be located" (CERCLA Section 109(9)), and the listing process is not intended to define or reflect boundaries of such facilities or releases. Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

PREscore 3.0 - PRESCORE.TCL File 07/25/94
GROUND WATER MIGRATION PATHWAY SCORESHEET
64th Street-North - 09/18/95

PAGE: 2

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: bedrock		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	6
2c. Depth to Aquifer	5	5
2d. Travel Time	35	15
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	260
3. Likelihood of Release	550	260
Waste Characteristics		
4. Toxicity/Mobility	*	1.00E+02
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	10
Targets		
7. Nearest Well	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	5.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	5.00E+00
12. Targets (including overlaying aquifers)	**	5.00E+00
13. Aquifer Score	100	0.16
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	0.16

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 3
 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
 64th Street-North - 09/18/95

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release by Overland Flow		
2a. Containment	10	10
2b. Runoff	25	1
2c. Distance to Surface Water	25	6
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)]	500	70
3. Potential to Release by Flood		
3a. Containment (Flood)	10	0
3b. Flood Frequency	50	0
3c. Potential to Release by Flood (lines 3a x 3b)	500	0
4. Potential to Release (lines 2d+3c)	500	70
5. Likelihood of Release	550	70
Waste Characteristics		
6. Toxicity/Persistence	*	1.00E+04
7. Hazardous Waste Quantity	*	100
8. Waste Characteristics	100	32
Targets		
9. Nearest Intake	50	0.00E+00
10. Population		
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	**	0.00E+00
10c. Potential Contamination	**	5.00E+00
10d. Population (lines 10a+10b+10c)	**	5.00E+00
11. Resources	5	5.00E+00
12. Targets (lines 9+10d+11)	**	1.00E+01
13. DRINKING WATER THREAT SCORE	100	0.27

* Maximum value applies to waste characteristics category.
 ** Maximum value not applicable.

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 4
 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
 64th Street-North - 09/18/95

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	70
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation	*	5.00E+08
16. Hazardous Waste Quantity	*	100
17. Waste Characteristics	1000	320
Targets		
18. Food Chain Individual	50	0.00E+00
19. Population		
19a. Level I Concentrations	**	0.00E+00
19b. Level II Concentrations	**	0.00E+00
19c. Pot. Human Food Chain Contamination	**	3.00E-04
19d. Population (lines 19a+19b+19c)	**	3.00E-04
20. Targets (lines 18+19d)	**	3.00E-04
21. HUMAN FOOD CHAIN THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.
 ** Maximum value not applicable.

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 5
 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
 64th Street-North - 09/18/95

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	70
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc.	*	5.00E+08
24. Hazardous Waste Quantity	*	100
25. Waste Characteristics	1000	320
Targets		
26. Sensitive Environments		
26a. Level I Concentrations	**	0.00E+00
26b. Level II Concentrations	**	0.00E+00
26c. Potential Contamination	**	2.50E-03
26d. Sensitive Environments	**	2.50E-03
(lines 26a+26b+26c)		
27. Targets (line 26d)	**	2.50E-03
28. ENVIRONMENTAL THREAT SCORE	60	0.00
29. WATERSHED SCORE	100	0.27
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	0.27

* Maximum value applies to waste characteristics category.
 ** Maximum value not applicable.

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 6
GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
64th Street-North - 09/18/95

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release to Aquifer Aquifer: bedrock		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	6
2c. Depth to Aquifer	5	5
2d. Travel Time	35	15
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	260
3. Likelihood of Release	550	260
Waste Characteristics		
4. Toxicity/Mobility/Persistence	*	1.00E+02
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	10
Targets		
7. Nearest Intake	50	0.00E+00
8. Population	**	0.00E+00
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	3.00E+00
8c. Potential Contamination	**	3.00E+00
8d. Population (lines 8a+8b+8c)	5	5.00E+00
9. Resources	**	8.00E+00
10. Targets (lines 7+8d+9)		
11. DRINKING WATER THREAT SCORE	100	0.25

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 7
GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
64th Street-North - 09/18/95

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
12. Likelihood of Release (same as line 3)	550	260
Waste Characteristics		
13. Toxicity/Mobility/Persistence/Bioacc.	*	5.00E+04
14. Hazardous Waste Quantity	*	100
15. Waste Characteristics	1000	32
Targets		
16. Food Chain Individual	50	0.00E+00
17. Population		
17a. Level I Concentrations	**	0.00E+00
17b. Level II Concentrations	**	0.00E+00
17c. Pot. Human Food Chain Contamination	**	0.00E+00
17d. Population (lines 17a+17b+17c)	**	0.00E+00
18. Targets (lines 16+17d)	**	0.00E+00
19. HUMAN FOOD CHAIN THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
20. Likelihood of Release (same as line 3)	550	260
Waste Characteristics		
21. Ecosystem Tox./Mobility/Persist./Bioacc.	*	1.00E+04
22. Hazardous Waste Quantity	*	100
23. Waste Characteristics	1000	32
Targets		
24. Sensitive Environments		
24a. Level I Concentrations	**	0.00E+00
24b. Level II Concentrations	**	0.00E+00
24c. Potential Contamination	**	0.00E+00
24d. Sensitive Environments (lines 24a+24b+24c)	**	0.00E+00
25. Targets (line 24d)	**	0.00E+00
26. ENVIRONMENTAL THREAT SCORE	60	0.00
27. WATERSHED SCORE	100	0.25
28. SW: GW to SW COMPONENT SCORE (Sgs)	100	0.25

* Maximum value applies to waste characteristics category.
 ** Maximum value not applicable.

PREscore 3.0 - PRESCORE.TCL File 07/25/94
 SOIL EXPOSURE PATHWAY SCORESHEET
 64th Street-North - 09/18/95

PAGE: 9

SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	550
Waste Characteristics		
2. Toxicity	*	1.00E+04
3. Hazardous Waste Quantity	*	10
4. Waste Characteristics	100	18
Targets		
5. Resident Individual	50	0.00E+00
6. Resident Population		
6a. Level I Concentrations	**	0.00E+00
6b. Level II Concentrations	**	0.00E+00
6c. Resident Population (lines 6a+6b)	**	0.00E+00
7. Workers	15	5.00E+00
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments	***	0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	5.00E+00
11. RESIDENT POPULATION THREAT SCORE	**	4.95E+04

* Maximum value applies to waste characteristics category.

** Maximum value not applicable.

*** No specific maximum value applies, see HRS for details.

PREscore 3.0 - PRESCORE.TCL File 07/25/94
 SOIL EXPOSURE PATHWAY SCORESHEET
 64th Street-North - 09/18/95

PAGE: 10

SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility	100	5.00E+01
13. Area of Contamination	100	1.00E+02
14. Likelihood of Exposure	500	3.75E+02
Waste Characteristics		
15. Toxicity	*	1.00E+04
16. Hazardous Waste Quantity	*	10
17. Waste Characteristics	100	18
Targets		
18. Nearby Individual	1	1.00E+00
19. Population Within 1 Mile	**	7.00E+00
20. Targets (lines 18+19)	**	8.00E+00
21. NEARBY POPULATION THREAT SCORE	**	5.40E+04
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	1.25

* Maximum value applies to waste characteristics category.
 ** Maximum value not applicable.

PREscore 3.0 - PRESCORE.TCL File 07/25/94
 AIR PATHWAY SCORESHEET
 64th Street-North - 09/18/95

PAGE: 11

AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release		
2a. Gas Potential to Release	500	220
2b. Particulate Potential to Release	500	280
2c. Potential to Release	500	280
3. Likelihood of Release	550	280
Waste Characteristics		
4. Toxicity/Mobility	*	2.00E+03
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	18
Targets		
7. Nearest Individual	50	2.00E+01
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	6.70E+01
8d. Population (lines 8a+8b+8c)	**	6.70E+01
9. Resources	5	0.00E+00
10. Sensitive Environments		
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	3.00E+00
10c. Sens. Environments (lines 10a+10b)	***	3.00E+00
11. Targets (lines 7+8d+9+10c)	**	9.00E+01
AIR MIGRATION PATHWAY SCORE (Sa)	100	5.50E+00

* Maximum value applies to waste characteristics category.

** Maximum value not applicable.

*** No specific maximum value applies, see HRS for details.

PREscore 3.0 - PRESCORE.TCL File 07/25/94
WASTE QUANTITY
64th Street-North - 09/18/95

PAGE: 12

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: 64th Street Landfil

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

WASTE QUANTITY

64th Street-North - 09/18/95

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	64th Street Landfil
b. Source Type	Landfill
c. Secondary Source Type	N.A.
d. Source Vol.(yd3/gal) Source Area (ft2)	0.00 1807740.00
e. Source Volume/Area Value	5.32E+02
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00
g. Data Complete?	NO
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00
i. Data Complete?	NO
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	5.32E+02

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Antimony	< 2	NO	3.5E+01	ppm
Chromium(VI)	< 2	NO	3.2E+02	ppm
Dibenzofuran	< 2	NO	7.2E-01	ppm
Hexachlorocyclohexane, beta-	< 2	NO	1.1E+01	ppm
Lead	< 2	NO	6.1E+02	ppm
Mercury	< 2	NO	2.0E-02	ppm
Methoxychlor	< 2	NO	2.6E+00	ppm
Nitrosodiphenylamine, N-	< 2	NO	4.1E+01	ppm
PCBs	< 2	NO	1.6E+00	ppm

Documentation for Source Type:

Dainage swales formerly located on the site were filled with municipal wastes during the 1940,s and 1950's. Disposal of industrial also allegedly occured at that time. Costruction and demolition debris was also disposed of on the site.

Reference: 1,2,4

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WASTE QUANTITY
64th Street-North - 09/18/95

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Documentation for Secondary Source Type:

N/A

Reference: 1

Documentation for Source Hazardous Substances:

Hazardous substances identified on site through analysis of soil samples collected between 12/1 thru 12/3/93, and on 12/3/94. See Preliminary Site Assessment Report Volume I for the locations of the soil samples.

Reference: 1,5

Documentation for Source Area:

The site is approximately 41.5 acres in size x 43,560 square feet in an acre.

Reference: 1

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WASTE QUANTITY

64th Street-North - 09/18/95

3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No.	Source ID	Migration Pathways	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1	64th Street Landfil	GW-SW-SE-A	5.32E+02	0.00E+00	5.32E+02

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Values		HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	1.00E+02	100	10
SW: Overland Flow, DW	Tox./Persistence	1.00E+04	100	32
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	5.00E+08	100	320
SW: Overland Flow, Env	Etox./Persis./Bioacc.	5.00E+08	100	320
SW: GW to SW, DW	Tox./Persistence	1.00E+02	100	10
SW: GW to SW, HFC	Tox./Persis./Bioacc.	5.00E+04	100	32
SW: GW to SW, Env	Etox./Persis./Bioacc.	1.00E+04	100	32
Soil Exposure: Resident	Toxicity	1.00E+04	10	18
Soil Exposure: Nearby	Toxicity	1.00E+04	10	18
Air	Toxicity/Mobility	2.00E+03	100	18

* Hazardous Waste Quantity Factor Values

** Waste Characteristics Factor Category Values

Note: SW = Surface Water
GW = Ground Water
DW = Drinking Water Threat
HFC = Human Food Chain Threat
Env = Environmental Threat

PREscore 3.0 - PRESCORE.TCL File 07/25/94
GROUND WATER PATHWAY AQUIFER SUMMARY
64th Street-North - 09/18/95

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No.	Aquifer ID	Type	Overlaying No.	Inter- Connected with	Likelihood of Release	Targets
1	bedrock	Non K	0	0	260	5.00E+00

Containment

No.	Source ID	HWQ Value	Containment Value
1	64th Street Landfil	5.32E+02	10
Containment Factor			10

Documentation for Ground Water Containment, Source 64th Street Landfil:

There is no documentation that the landfilled area was lined prior to filling. There is no maintained engineered cover, leachate collection system or run-on runoff control systems.

Reference: 1,2,3

Net Precipitation

Net Precipitation (inches)

N.A.

Aquifer: bedrock

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

Documentation for bedrock Aquifer:

The bedrock aquifer beneath the site is found within the bedding joints of the dolomite of the Lockport Group, at depths of over 30 feet. Groundwater is believed to flow south.

Reference: 4

OBSERVED RELEASE

No.	Well ID	Well Type	Distance (miles)	Level of Contamination

- N/A and/or data not specified				

=====

Observed Release Factor	0
-------------------------	---

Documentation for Well :

No monitoring wells were installed or sampled as part of this investigation.

Reference: 1,4

POTENTIAL TO RELEASE

Containment

Containment Factor

10

Net Precipitation

Net Precipitation Factor

6

Depth to Aquifer

A. Depth of Hazardous Substances

4.50 feet

Documentation for Depth of Hazardous Substances:

Sample results from Test Pit sample TP-10 which was sampled at a depth of 4.5 feet.

Reference: 1,5

B. Depth to Aquifer from Surface

30.00 feet

Documentation for Depth to Aquifer from Surface :

The interval between the surface and the bedrock aquifer consists of fill material (i.e. concrete blocks, bricks, rebar, and other C&D wastes), to a depth of approximately 5 feet. Native soil constitutes the remainder of the interval.

Reference: 1,4

C. Depth to Aquifer (B - A)

25.50 feet

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 GROUND WATER PATHWAY LIKELIHOOD OF RELEASE bedrock AQUIFER
 64th Street-North - 09/18/95

Depth to Aquifer Factor 5

Travel Time

Are All Layers Karst? NO

Documentation for Karst Layers:

No documentation of karst layers

Reference: 1,4

Thickness of Layer(s) with Lowest Conductivity 25.00 feet

Documentation for Thickness of Layers with Lowest Conductivity:

The native soil interval from approximately 5 feet to 30 or more feet below ground surface.

Reference: 1

Hydraulic Conductivity (cm/sec) 1.0E-06

Documentation for Hydraulic Conductivity:

HRS Table 3-6 used to determine hydraulic conductivity.

Reference: 1,3

Travel Time Factor 15

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 21
GROUND WATER PATHWAY LIKELIHOOD OF RELEASE bedrock AQUIFER
64th Street-North - 09/18/95

=====

Potential to Release Factor	260
-----------------------------	-----

PREscore 3.0 - PRESCORE.TCL File 07/25/94
 GROUND WATER PATHWAY WASTE CHARACTERISTICS
 64th Street-North - 09/18/95

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Source: 1 64th Street Landfil

Source Hazardous Waste Quantity Value: 531.69

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
-----	-----	-----	-----
Antimony	10000	1.00E-02	1.00E+02
Chromium(VI)	10000	1.00E-02	1.00E+02
Dibenzofuran	100	2.00E-05	2.00E-03
Hexachlorocyclohexane, beta-	100	2.00E-05	2.00E-03
Lead	10000	2.00E-05	2.00E-01
Mercury	10000	2.00E-05	2.00E-01
Methoxychlor	100	2.00E-07	2.00E-05
Nitrosodiphenylamine, N-	10	2.00E-03	2.00E-02
PCBs	10000	2.00E-07	2.00E-03

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GROUND WATER PATHWAY WASTE CHARACTERISTICS
64th Street-North - 09/18/95

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Hazardous Substances Found in an Observed Release

Well No.	Observed Release Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
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- N/A and/or data not specified

PREscore 3.0 - PRESCORE.TCL File 07/25/94
GROUND WATER PATHWAY WASTE CHARACTERISTICS
64th Street-North - 09/18/95

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Toxicity/Mobility Value from Source Hazardous Substances:	1.00E+02
Toxicity/Mobility Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility Factor:	1.00E+02
Sum of Source Hazardous Waste Quantity Values:	5.32E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	10

PREscore 3.0 - PRESCORE.TCL File 07/25/94
GROUND WATER PATHWAY TARGETS FOR AQUIFER bedrock
64th Street-North - 09/18/95

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Population by Well

No.	Well ID	Sample Type	Distance (miles)	Level of Contamination	Population

- N/A and/or data not specified					

Level I Population Factor: 0.00

Level II Population Factor: 0.00

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GROUND WATER PATHWAY TARGETS FOR AQUIFER bedrock
64th Street-North - 09/18/95

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Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	0.0	0.00E+00
> 1/4 to 1/2	0.0	0.00E+00
> 1/2 to 1	0.0	0.00E+00
> 1 to 2	0.0	0.00E+00
> 2 to 3	0.0	0.00E+00
> 3 to 4	0.0	0.00E+00

Potential Contamination Factor: 0.000

Documentation for Target Population > 0 to 1/4 mile Distance Category:

There are no drinking water wells within the 4-mile target distance limit.

Reference: 1,4

Nearest Well

Level of Contamination: N.A.

Nearest Well Factor: 0.00E+00

Documentation for Nearest Well:

There are no drinking water wells within the 4-mile target distance limit.

Reference: 1,4

Resources

Resource Use: YES

Resource Factor: 5.00E+00

Documentation for Resources:

No groundwater wells within the target distance limit but the groundwater could be used as a drinking water source.

Reference: 3,4

Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

Documentation for Wellhead Protection Area:

No documentation that the site is in a wellhead protection area.

Reference: 1

PREscore 3.0 - PRESCORE.TCL File 07/25/94
SURFACE WATER PATHWAY SEGMENT SUMMARY
64th Street-North - 09/18/95

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No.	Segment ID	Segment Type	Water Type	Start Point (mi)	End Point (mi)	Average Flow (cfs)
1	Niagara River	River	Fresh	0.00	15.00	10000

Documentation for segment: Niagara River:

No overland migration route has been determined for site contaminants to follow to the Niagara River. Potentially contaminated groundwater (no groundwater samples were collected) may flow approximately 1-mile in a southerly direction and discharge to the River.

Reference: 1,4,7,8,10

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SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
64th Street-North - 09/18/95

OBSERVED RELEASE

No. Sample ID	Sample Type	Distance (miles)	Level of Contamination DW	HFC	Env
---------------	-------------	---------------------	------------------------------	-----	-----

- N/A and/or data not specified

=====

Observed Release Factor	0
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Documentation for Observed Release, Sample sw-2:

Sample SW-2 was collected from the wetland TW-3 located on-site. It was a surface water sample.

Reference: 1,5

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SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
64th Street-North - 09/18/95

POTENTIAL TO RELEASE

Potential to Release by Overland Flow

Containment

No.	Source ID	HWQ Value	Containment Value
1	64th Street Landfil	5.32E+02	10

=====

Containment Factor: 10

Documentation for Overland Flow Containment, Source 64th Street Landfil:

The site does not have a maintained engineered cover, nor a functioning and maintained run-on control system and runoff management system.

Reference: 1,2,3

Distance to Surface Water

Distance to Surface Water: 5280.0 feet

Distance to Surface Water Factor: 6

Documentation for Distance to Surface Water:

Distance from site to Niagara River.

Reference: 1,4,7,8

Runoff

A. Drainage Area: 85.0 acres

Documentation for Drainage Area:

The site encompasses approximately 85 acres.

Reference: 1,4,7,8

B. 2-year, 24-hour Rainfall: 2.5 inches

Documentation for Rainfall:

Rainfall frequency map

Reference: 6

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SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
64th Street-North - 09/18/95

C. Soil Group: B
Medium-textured soils with moderate infiltration rates

Runoff Factor: 1.

=====

Potential to Release by Overland Flow Factor: 70

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 SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
 64th Street-North - 09/18/95

Potential to Release by Flood

No.	Source ID	HWQ Value	Flood Containment Value	Flood Frequency Value	Potential to Release by Flood

- N/A and/or data not specified					

=====

Potential to Release by Flood Factor: 0

Documentation for Flood Containment, Source 64th Street Landfil:

No documentation that site is contained against flooding

Reference: 1,2

Documentation for Flood Frequency, Source 64th Street Landfil:

The 64th Street site is not located on a floodplain.

Reference: 9

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 34
 SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
 64th Street-North - 09/18/95

Source: 1 64th Street Landfil

Source Hazardous Waste Quantity Value: 531.69

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
-----	-----	-----	-----
Antimony	10000	1.00E+00	1.00E+04
Chromium(VI)	10000	1.00E+00	1.00E+04
Dibenzofuran	0	1.00E+00	0.00E+00
Hexachlorocyclohexane, beta-	100	1.00E+00	1.00E+02
Lead	10000	1.00E+00	1.00E+04
Mercury	10000	1.00E+00	1.00E+04
Methoxychlor	100	1.00E+00	1.00E+02
Nitrosodiphenylamine, N-	10	1.00E+00	1.00E+01
PCBs	10000	1.00E+00	1.00E+04

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SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
64th Street-North - 09/18/95

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
------------	---	-------------------	----------------------	-----------------------------------

- N/A and/or data not specified

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SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
64th Street-North - 09/18/95

Toxicity/Persistence Value from Source Hazardous Substances:	1.00E+04
Toxicity/Persistence Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Persistence Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	5.32E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	32

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 37
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
64th Street-North - 09/18/95

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

-
- N/A and/or data not specified

Most Distant Level II Sample

-
- N/A and/or data not specified

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 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
 64th Street-North - 09/18/95

Level I Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
--------	--	------------

 - N/A and/or data not specified
 =====

Population Served by Level I Intakes: 0.0

Level I Population Factor: 0.00E+00

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 39
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
64th Street-North - 09/18/95

Level II Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
--------	--	------------

- N/A and/or data not specified
=====

Population Served by Level II Intakes: 0.0

Level II Population Factor: 0.00E+00

Potential Contamination

Intake ID	Average Annual Flow (cfs)	Population Served
1 City of N. Falls	10000	62000.0

Documentation for Intake City of N. Falls:

The City of Niagara Falls has a drinking water intake in the Niagara River located approximately 6 miles downstream from the site which provides water to approximately 62,000 people. No overland migration route has been identified which may potentially carry site contaminants to the Niagara River located 1-mile from the site. However, potentially contaminated groundwater from beneath the site, which flows in in southerly direction toward the River, may eventually enter the river upstream of the intake. No surface water samples were collected from the Niagara River as part of this investigation. Contaminants from the site are not believed to have impacted the river or the intake.

Reference: 1,2,4,7,8,10

Type of Surface Water Body	Total Population	Dilution-Weighted Population
Large Stream to River	62000.0	52.0
=====		
Dilution-Weighted Population Served by Potentially Contaminated Intakes:	52.0	
Potential Contamination Factor:		5.0

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 41
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
64th Street-North - 09/18/95

Nearest Intake

Location of Nearest Drinking Water Intake: City of N. Falls
Distance from the Probable Point of Entry: 6.00 miles
Type of Surface Water Body: River
Dilution Weight: 0.0010000
Highest Level of Contamination: Potential

Nearest Intake Factor: 0.00

Documentation for City of N. Falls:

The City of Niagara Falls has a drinking water intake in the Niagara River located approximately 6 miles downstream from the site which provides water to approximately 62,000 people. No overland migration route has been identified which may potentially carry site contaminants to the Niagara River located 1-mile from the site. However, potentially contaminated groundwater from beneath the site, which flows in a southerly direction toward the River, may eventually enter the river upstream of the intake. No surface water samples were collected from the Niagara River as part of this investigation. Contaminants from the site are not believed to have impacted the river or the intake.

Reference: 1,2,4,7,8,10

Resources

Resource Use: YES

Resource Value: 5.00E+00

Documentation for Resources:

The Niagara River is used as a drinking water source and provides water to major recreation areas.

Reference: 10

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 SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
 64th Street-North - 09/18/95

Source: 1 64th Street Landfil

Source Hazardous Waste Quantity Value: 531.69

Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value
-----	-----	-----	-----	-----
Antimony	10000	1.00E+00	5.00E-01	5.00E+03
Chromium(VI)	10000	1.00E+00	5.00E+00	5.00E+04
Dibenzofuran	0	1.00E+00	5.00E+02	0.00E+00
Hexachlorocyclohexane, beta-	100	1.00E+00	5.00E+02	5.00E+04
Lead	10000	1.00E+00	5.00E+01	5.00E+05
Mercury	10000	1.00E+00	5.00E+04	5.00E+08
Methoxychlor	100	1.00E+00	5.00E+04	5.00E+06
Nitrosodiphenylamine, N-	10	1.00E+00	5.00E+02	5.00E+03
PCBs	10000	1.00E+00	5.00E+04	5.00E+08

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 43
SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
64th Street-North - 09/18/95

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value
------------	---	-------------------	----------------------	-------------------------	---

- N/A and/or data not specified

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 44
SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
64th Street-North - 09/18/95

Toxicity/Persistence/Bioaccumulation Value from Source Hazardous Substances:	5.00E+08
Toxicity/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Persistence/Bioaccumulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	5.32E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	320

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

-
- N/A and/or data not specified

Most Distant Level II Sample

-
- N/A and/or data not specified

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 46
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
64th Street-North - 09/18/95

Level I Concentrations

	Annual Production (pounds)	Human Food Chain Population Value
Fishery		

- N/A and/or data not specified

=====

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

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SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
64th Street-North - 09/18/95

Level II Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value
---------	-------------------------------	--------------------------------------

- N/A and/or data not specified

=====

Sum of Human Food Chain Population Values: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Fishery	Annual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)	Pop. Value (Pi)	Dilution Weight (Di)	Pi*Di
1 Niagara River	1000.0	River	10000	3.0	1.00E-03	3.00E-03

Sum of (Pi*Di): 3.00E-03

Potential Human Food Chain Contamination Factor: 3.00E-04

Documentation for Niagara River Fishery:

The Niagara River is a major sport fishery. Production numbers were not available, therefore, a very conservative estimate of 1,000 lbs. of fish per year was used.

Reference: 11

Food Chain Individual

Location of Nearest Fishery: Niagara River
 Distance from the Probable Point of Entry: 0.00 miles
 Type of Surface Water Body: River
 Dilution Weight: 0.0010000
 Level of Contamination: Potential

Food Chain Individual Factor: 0.00

Documentation for Niagara River:

No overland migration route has been determined for site contaminants to follow to the Niagara River. Potentially contaminated groundwater (no groundwater samples were collected) may flow approximately 1-mile in a southerly direction and discharge to the River.

PREscore 3.0 - PRESCORE.TCL File 07/25/94
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
64th Street-North - 09/18/95

Reference: 1,4,7,8,10

Source: 1 64th Street Landfil

Source Hazardous Waste Quantity Value: 531.69

Hazardous Substance	Eco- toxicity Value	Persistence Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
-----	-----	-----	-----	-----
Antimony	0	1.00E+00	5.00E-01	0.00E+00
Chromium(VI)	100	1.00E+00	5.00E+00	5.00E+02
Dibenzofuran	100	1.00E+00	5.00E+02	5.00E+04
Hexachlorocyclohexane, beta-	0	1.00E+00	5.00E+02	0.00E+00
Lead	1000	1.00E+00	5.00E+03	5.00E+06
Mercury	10000	1.00E+00	5.00E+04	5.00E+08
Methoxychlor	10000	1.00E+00	5.00E+04	5.00E+08
Nitrosodiphenylamine, N-	100	1.00E+00	5.00E+02	5.00E+04
PCBs	10000	1.00E+00	5.00E+04	5.00E+08

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Eco- toxicity Value	Persistence Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
------------	---	---------------------------	----------------------	-------------------------	--

- N/A and/or data not specified

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 52
SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
64th Street-North - 09/18/95

Ecotoxicity/Persistence/Bioaccummulation Value from Source Hazardous Substances:	5.00E+08
Ecotoxicity/Persistence/Bioaccummulation Value from Observed Release Hazardous Substances:	0.00E+00
Ecotoxicity/Persistence/Bioaccummulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	5.32E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	320

PREscore 3.0 - PRESCORE.TCL File 07/25/94
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
64th Street-North - 09/18/95

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

-
- N/A and/or data not specified

Most Distant Level II Sample

-
- N/A and/or data not specified

Level I Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
-----------------------	---	-----------------------------------

- N/A and/or data not specified

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
---------	--	------------------------------

- N/A and/or data not specified

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level I Concentrations Factor: 0.00E+00

Level II Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value

- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)

- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

=====
 Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level II Concentrations Factor: 0.00E+00

PREscore 3.0 - PRESCORE.TCL File 07/25/94
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
64th Street-North - 09/18/95

Potential Contamination

Sensitive Environments

Type of Surface		Sensitive Environment	Sensitive Environment Value
Water Body			

Wetlands

Type of Surface		Wetlands Frontage	Wetlands Value
Water Body	Sensitive Environment		

- N/A and/or data not specified

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 57
 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
 64th Street-North - 09/18/95

Type of Surface	Sum of Sens. Environment Values(Sj)	Sum of Wetland Frontage Values(Wj)	Dilution Weight (Dj)	Dj(Wj+Sj)
Water Body				

 - N/A and/or data not specified

Sum of Dj(Wj+Sj): 0.00E+00
 Sum of Dj(Wj+Sj)/10: 0.00E+00

=====
 Potential Contamination Sensitive Environment Factor: 2.50E-03

PREscore 3.0 - PRESCORE.TCL File 07/25/94
SURFACE WATER PATHWAY GW TO SW CONTAINMENT SUMMARY
64th Street-North - 09/18/95

PAGE: 58

Containment

No.	Source ID	HWQ Value	Containment Value
1	64th Street Landfil	5.32E+02	10
Containment Factor			10

Documentation for Ground Water Containment, Source 64th Street Landfil:

There is no documentation that the landfilled area was lined prior to filling. There is no maintained engineered cover, leachate collection system or run-on runoff control systems.

Reference: 1,2,3

Net Precipitation

Net Precipitation (inches)	0.00
----------------------------	------

Aquifer: bedrock
Type of Aquifer: Non Karst
Overlaying Aquifer: 0
Interconnected with: 0

Documentation for bedrock Aquifer:

The bedrock aquifer beneath the site is found within the bedding joints of the dolomite of the Lockport Group, at depths of over 30 feet. Groundwater is believed to flow south.

Reference: 4

OBSERVED RELEASE

No.	Well ID	Well Type	Distance (miles)	Level of Contamination

- N/A and/or data not specified				

=====

Observed Release Factor	0
-------------------------	---

Documentation for Well :

No monitoring wells were installed or sampled as part of this investigation.

Reference: 1,4

POTENTIAL TO RELEASE

Ground Water to Surface Water Angle

Probable Point of Entry	1.00	miles
Angle Theta	180	

Containment

Containment Factor	10	
--------------------	----	--

Net Precipitation

Net Precipitation Factor	6	
--------------------------	---	--

Depth to Aquifer

A. Depth of Hazardous Substances	4.50	feet
----------------------------------	------	------

Documentation for Depth of Hazardous Substances:

Sample results from Test Pit sample TP-10 which was sampled at a depth of 4.5 feet.

Reference: 1,5

B. Depth to Aquifer from Surface	30.00	feet
----------------------------------	-------	------

Documentation for Depth to Aquifer from Surface :

The interval between the surface and the bedrock aquifer consists of fill material (i.e. concrete blocks, bricks, rebar, and other C&D wastes), to a depth of approximately 5 feet. Native soil constitutes the remainder of the interval.

Reference: 1,4

C. Depth to Aquifer (B - A)	25.50	feet
Depth to Aquifer Factor	5	
Travel Time -----		
Are All Layers Karst?	NO	

Documentation for Karst Layers:

No documentation of karst layers

Reference: 1,4

Thickness of Layer(s) with Lowest Conductivity	25.00	feet
--	-------	------

Documentation for Thickness of Layers with Lowest Conductivity:

The native soil interval from approximately 5 feet to 30 or more feet below ground surface.

Reference: 1

Hydraulic Conductivity (cm/sec)	1.0E-06
---------------------------------	---------

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 62
SURFACE WATER PATHWAY GW TO SW COMPONENT LIKELIHOOD OF RELEASE
64th Street-North - 09/18/95

Documentation for Hydraulic Conductivity:

HRS Table 3-6 used to determine hydraulic conductivity.

Reference: 1,3

Travel Time Factor

15

=====

Potential to Release Factor	260
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PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 63
 SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS
 64th Street-North - 09/18/95

Source: 1 64th Street Landfil

Source Hazardous Waste Quantity Value: 531.69

Hazardous Substance	Toxicity Factor Value	Persist. Value	Mobility Value	Toxicity/ Mobility/ Persistenc
-----	-----	-----	-----	-----
Antimony	10000	1.00E+00	1.00E-02	1.00E+02
Chromium(VI)	10000	1.00E+00	1.00E-02	1.00E+02
Dibenzofuran	0	1.00E+00	2.00E-05	0.00E+00
Hexachlorocyclohexane, beta-	100	1.00E+00	2.00E-05	2.00E-03
Lead	10000	1.00E+00	2.00E-05	2.00E-01
Mercury	10000	1.00E+00	2.00E-05	2.00E-01
Methoxychlor	100	1.00E+00	2.00E-07	2.00E-05
Nitrosodiphenylamine, N-	10	1.00E+00	2.00E-03	2.00E-02
PCBs	10000	1.00E+00	2.00E-07	2.00E-03

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 64
SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS
64th Street-North - 09/18/95

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Toxicity Factor Value	Persist. Value	Toxicity/ Persistence
--	-----------------------------	-------------------	--------------------------

- N/A and/or data not specified

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 65
SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS
64th Street-North - 09/18/95

Toxicity/Mobility/Persistence Value from Source Hazardous Substances:	1.00E+12
Toxicity/Mobility/Persistence Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility/Persistence Factor:	1.00E+00
Sum of Source Hazardous Waste Quantity Values:	5.32E+12
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	10

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 66
SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT TARGETS
64th Street-North - 09/18/95

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

-
- N/A and/or data not specified

Most Distant Level II Sample

-
- N/A and/or data not specified

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 67
SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT TARGETS
64th Street-North - 09/18/95

Level I Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
--------	--	------------

- N/A and/or data not specified

=====

Population Served by Level I Intakes: 0.0

Level I Population Factor: 0.00E+00

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 68
 SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT TARGETS
 64th Street-North - 09/18/95

Level II Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
--------	--	------------

 - N/A and/or data not specified

=====

Population Served by Level II Intakes:	0.0
--	-----

Level II Population Factor: 0.00E+00

Potential Contamination

Intake ID	Average Annual Flow (cfs)	Population Served
1 City of N. Falls	10000	62000.0

Documentation for Intake City of N. Falls:

The City of Niagara Falls has a drinking water intake in the Niagara River located approximately 6 miles downstream from the site which provides water to approximately 62,000 people. No overland migration route has been identified which may potentially carry site contaminants to the Niagara River located 1-mile from the site. However, potentially contaminated groundwater from beneath the site, which flows in in southerly direction toward the River, may eventually enter the river upstream of the intake. No surface water samples were collected from the Niagara River as part of this investigation. Contaminants from the site are not believed to have impacted the river or the intake.

Reference: 1,2,4,7,8,10

Type of Surface Water Body	Total Population	Dilution-Weighted Population
Large Stream to River	62000.0	52.0
Dilution-Weighted Population Served by Potentially Contaminated Intakes:	52.0	
Potential Contamination Factor:		3.0

Nearest Intake

Location of Nearest Drinking Water Intake: City of N. Falls
Distance from the Probable Point of Entry: 6.00 miles
Type of Surface Water Body: River
Dilution Weight: 0.0005000
Highest Level of Contamination: Potential

Nearest Intake Factor: 0.00

Documentation for City of N. Falls:

The City of Niagara Falls has a drinking water intake in the Niagara River located approximately 6 miles downstream from the site which provides water to approximately 62,000 people. No overland migration route has been identified which may potentially carry site contaminants to the Niagara River located 1-mile from the site. However, potentially contaminated groundwater from beneath the site, which flows in in southerly direction toward the River, may eventually enter the river upstream of the intake. No surface water samples were collected from the Niagara River as part of this investigation. Contaminants from the site are not believed to have impacted the river or the intake.

Reference: 1,2,4,7,8,10

Resources

Resource Use: YES

Resource Value: 5.00E+00

Documentation for Resources:

The Niagara River is used a drinking water source and provides water to major recreation areas.

Reference: 10

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 71
 SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
 64th Street-North - 09/18/95

Source: 1 64th Street Landfil

Source Hazardous Waste Quantity Value: 531.69

Hazardous Substance	Toxicity Value	Persist. Value	Mobility Value	Bio- accum. Value	Tox./Mobil / Persistence / Bioaccum. Value
-----	-----	-----	-----	-----	-----
Antimony	10000	1.00E+00	1.00E-02	5.00E-01	5.00E+01
Chromium(VI)	10000	1.00E+00	1.00E-02	5.00E+02	5.00E+04
Dibenzofuran	0	1.00E+00	2.00E-05	5.00E+02	0.00E+00
Hexachlorocyclohexane, beta-	100	1.00E+00	2.00E-05	5.00E+02	1.00E+00
Lead	10000	1.00E+00	2.00E-05	5.00E+03	1.00E+03
Mercury	10000	1.00E+00	2.00E-05	5.00E+04	1.00E+04
Methoxychlor	100	1.00E+00	2.00E-07	5.00E+03	1.00E-01
Nitrosodiphenylamine, N-	10	1.00E+00	2.00E-03	5.00E+02	1.00E+01
PCBs	10000	1.00E+00	2.00E-07	5.00E+04	1.00E+02

SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
64th Street-North - 09/18/95

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Toxicity Value	Persist. Value	Bio- accum. Value	Toxicity/ Persistence Bioaccum. Value
--	-------------------	-------------------	-------------------------	--

- N/A and/or data not specified

SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
64th Street-North - 09/18/95

Toxicity/Mobility/Persistence/Bioaccumulation Value from Source Hazardous Substances:	5.00E+04
Toxicity/Mobility/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility/Persistence/Bioaccumulation Factor:	5.00E+04
Sum of Source Hazardous Waste Quantity Values:	5.32E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	32

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

-
- N/A and/or data not specified

Most Distant Level II Sample

-
- N/A and/or data not specified

Level I Concentrations

	Annual Production (pounds)	Human Food Chain Population Value
Fishery		

- N/A and/or data not specified		

=====

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 76
SW PATHWAY: GW TO SW COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
64th Street-North - 09/18/95

Level II Concentrations

	Annual Production (pounds)	Human Food Chain Population Value
Fishery		

- N/A and/or data not specified

=====

Sum of Human Food Chain Population Values: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

	Annual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)	Pop. Value (Pi)	Dilution Weight (Di)	Pi*Di
Fishery						

- N/A and/or data not specified

Sum of (Pi*Di): 0.00E+00

Potential Human Food Chain Contamination Factor: 0.00E+00

Documentation for Niagara River Fishery:

The Niagara River is a major sport fishery. Production numbers were not available, therefore, a very conservative estimate of 1,000 lbs. of fish per year was used.

Reference: 11

Food Chain Individual

Location of Nearest Fishery: N.A.

Food Chain Individual Factor: 0.00

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 78
 SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
 64th Street-North - 09/18/95

Source: 1 64th Street Landfil

Source Hazardous Waste Quantity Value: 531.69

Hazardous Substance	Eco- toxicity Value	Persist. Value	Mob. Value	Bio- accum. Value	Ecotoxicity/ Mobility/ Persistence/ Bioaccum. Value

Antimony	0	1.00E+00	1.00E-02	5.00E-01	0.00E+00
Chromium(VI)	100	1.00E+00	1.00E-02	5.00E+02	5.00E+02
Dibenzofuran	100	1.00E+00	2.00E-05	5.00E+02	1.00E+00
Hexachlorocyclohexane, beta-	0	1.00E+00	2.00E-05	5.00E+03	0.00E+00
Lead	1000	1.00E+00	2.00E-05	5.00E+03	1.00E+02
Mercury	10000	1.00E+00	2.00E-05	5.00E+04	1.00E+04
Methoxychlor	10000	1.00E+00	2.00E-07	5.00E+03	1.00E+01
Nitrosodiphenylamine, N-	100	1.00E+00	2.00E-03	5.00E+02	1.00E+02
PCBs	10000	1.00E+00	2.00E-07	5.00E+04	1.00E+02

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 79
SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
64th Street-North - 09/18/95

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Eco- toxicity Value	Persist. Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
--	---------------------------	-------------------	-------------------------	--

- N/A and/or data not specified

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 80
SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
64th Street-North - 09/18/95

Ecotoxicity/Mobility/Persistence/Bioaccumulation Value from Source Substances:	1.00E+04
Ecotoxicity/Mobility/Persistence/Bioaccumulation Value from Observed Hazardous Substances:	0.00E+00
Ecotoxicity/Mobility/Persistence/Bioaccumulation Factor:	1.00E+00
Sum of Source Hazardous Waste Quantity Values:	5.32E+00
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	32

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

Level I Concentrations

	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
Sensitive Environment		

- N/A and/or data not specified

Sum of Sensitive Environments Values: 0

Wetlands

	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
Wetland		

- N/A and/or data not specified

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level I Concentrations Factor: 0.00E+00

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 83
 SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS
 64th Street-North - 09/18/95

Level II Concentrations

	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
Sensitive Environment		

- N/A and/or data not specified

Sum of Sensitive Environments Values:

0

Wetlands

	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
Wetland		

- N/A and/or data not specified

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Sensitive Environments

Type of Surface	Sensitive Environment	Sensitive Environment Value
Water Body		

Wetlands

Type of Surface	Sensitive Environment	Wetlands Frontage	Wetlands Value
Water Body			

- N/A and/or data not specified

PREscore 3.0 - PRESCORE.TCL File 07/25/94 PAGE: 85
 SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS
 64th Street-North - 09/18/95

Type of Surface	Sum of Sens. Environment Values (Sj)	Sum of Wetland Frontage Values (Wj)	Dilution Weight (Dj)	Dj (Wj+Sj)
Water Body				

 - N/A and/or data not specified

Sum of Dj (Wj+Sj): 0.00E+00
 Sum of Dj (Wj+Sj)/10: 0.00E+00

=====

Potential Contamination Sensitive Environment Factor:	0.00E+00
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Likelihood of Exposure

No.	Source ID	Level of Contamination
1	64th Street Landfil	Level I
Likelihood of Exposure Factor: 550		

Documentation for Area of Contamination, Source 64th Street Landfil:

The site consists of approximately 41.5 acres.

Reference: 1,2,7,8

Source No.	Hazardous Substance	Depth (ft.)	Concent.	Cancer	RFD	Units
1	Antimony	< 2	3.5E+01	0.0E+00	2.3E+02	ppm
1	Chromium(VI)	< 2	3.2E+02	0.0E+00	2.9E+03	ppm
1	Dibenzofuran	< 2	7.2E-01	0.0E+00	0.0E+00	ppm
1	Hexachlorocyclohexane, beta-	< 2	1.1E+01	3.2E-01	0.0E+00	ppm
1	Lead	< 2	6.1E+02	0.0E+00	0.0E+00	ppm
1	Mercury	< 2	2.0E-02	0.0E+00	1.7E+02	ppm
1	Methoxychlor	< 2	2.6E+00	0.0E+00	2.9E+03	ppm
1	Nitrosodiphenylamine, N-	< 2	4.1E+01	1.2E+02	0.0E+00	ppm
1	PCBs	< 2	1.6E+00	7.6E-02	0.0E+00	ppm

Documentation for Source 64th Street Landfil, Contaminants:

Hazardous substances identified on site through analysis of soil samples collected between 12/1 thru 12/3/93, and on 12/3/94. See Preliminary Site Assessment Report Volume I for the locations of the soil samples.

Reference: 1,5

PREscore 3.0 - PRESCORE.TCL File 07/25/94
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
64th Street-North - 09/18/95

Source: 1 64th Street Landfil

Source Hazardous Waste Quantity Value: 53.17

Hazardous Substance	Toxicity Value
Antimony	10000
Chromium(VI)	10000
Dibenzofuran	0
Hexachlorocyclohexane, beta-	100
Lead	10000
Mercury	10000
Methoxychlor	100
Nitrosodiphenylamine, N-	10
PCBs	10000

PREscore 3.0 - PRESCORE.TCL File 07/25/94
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
64th Street-North - 09/18/95

Toxicity Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	5.32E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	18

PREscore 3.0 - PRESCORE.TCL File 07/25/94
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT TARGETS
64th Street-North - 09/18/95

PAGE: 89

Targets

Level I Population:	0.0	Value:	0.00
---------------------	-----	--------	------

Documentation for Level I Population:

No samples were taken from any residential property to determine level I concentrations. No resident population identified.

Reference: 1,2,5,7,8

Level II Population:	0.0	Value:	0.00
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Documentation for Level II Population:

No samples were taken on any residential property to determine level II concentrations. No resident individuals identified.

Reference: 1,4,5,7,8

Workers:	50.0	Value:	5.00
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Documentation for Workers:

Unknown number of workers on the site. Assume 50.

Reference: 1

Resident Individual:	Potentia	Value:	0.00
Resources:	NO	Value:	0.00

Documentation for Resources:

No resources identified.

Reference: 1,2,7,8

Terrestrial Sensitive Environment	Value

- N/A and/or data not specified	
=====	
Terrestrial Sensitive Environments Factor:	0.00

Documentation for Terrestrial Environment NONE:

No terrestrial sensitive environments identified.

Reference: 12

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 SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT LIKELIHOOD OF EXPOSURE
 64th Street-North - 09/18/95

Likelihood of Exposure

No.	Source ID	Level of Contamination	Attractiveness/Accessibility	Area of Contam. (sq. feet)
1	64th Street Landfil	Level I	50	1807740
Highest Attractiveness/Accessibility Value:			50	
Sum of Eligible Areas Of Contamination (sq. feet):				1807740
Area of Contamination Value: 100				

Likelihood of Exposure Factor Category: 375

Documentation for Attractiveness/Accessibility, Source 64th Street Landfil:

The site is accessible to the public and is sometimes used By nearby residents as a recreational area or as a short cut to Niagara Falls Blvd.

Reference: 1,2

Source No.	Hazardous Substance	Depth (ft.)	Concent.	Cancer	RFD	Units
1	Antimony	< 2	3.5E+01	0.0E+00	2.3E+02	ppm
1	Chromium(VI)	< 2	3.2E+02	0.0E+00	2.9E+03	ppm
1	Dibenzofuran	< 2	7.2E-01	0.0E+00	0.0E+00	ppm
1	Hexachlorocyclohexane, beta-	< 2	1.1E+01	3.2E-01	0.0E+00	ppm
1	Lead	< 2	6.1E+02	0.0E+00	0.0E+00	ppm
1	Mercury	< 2	2.0E-02	0.0E+00	1.7E+02	ppm
1	Methoxychlor	< 2	2.6E+00	0.0E+00	2.9E+03	ppm
1	Nitrosodiphenylamine, N-	< 2	4.1E+01	1.2E+02	0.0E+00	ppm
1	PCBs	< 2	1.6E+00	7.6E-02	0.0E+00	ppm

Documentation for Source 64th Street Landfil, Contaminants:

Hazardous substances identified on site through analysis of soil samples collected between 12/1 thru 12/3/93, and on 12/3/94. See Preliminary Site Assessment Report Volume I for the locations of the soil samples.

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SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT LIKELIHOOD OF EXPOSURE
64th Street-North - 09/18/95

Reference: 1,5

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SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
64th Street-North - 09/18/95

Source: 1 64th Street Landfil

Source Hazardous Waste Quantity Value: 53.17

Hazardous Substance	Toxicity Value
Antimony	10000
Chromium(VI)	10000
Dibenzofuran	0
Hexachlorocyclohexane, beta-	100
Lead	10000
Mercury	10000
Methoxychlor	100
Nitrosodiphenylamine, N-	10
PCBs	10000

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SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS
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Toxicity Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	5.32E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	18

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 SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT TARGETS
 64th Street-North - 09/18/95

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Nearby Individual

Population within 1/4 mile: 1475.0

Nearby Individual Value: 1.0

Population Within 1 Mile

Travel Distance Category	Number of People	Value
> 0 to 1/4 mile	1475.0	4.1
> 1/4 to 1/2 mile	1475.0	2.0
> 1/2 to 1 mile	2952.0	1.0
Population Within 1 Mile Factor:		7.0

Documentation for Population > 0 to 1/4 mile Distance Category:

The total population within 1-mile of the site is 5,902. Assume
 1,475 w/in 1/4 mile, 1,475 w/in 1/4-1/2 mile, and 2952 w/in 1/2-1.0
 mile

Reference:

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AIR PATHWAY LIKELIHOOD OF RELEASE
64th Street-North - 09/18/95

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OBSERVED RELEASE

No. Sample ID	Distance (miles)	Level of Contamination
---------------	---------------------	------------------------

- N/A and/or data not specified

=====

Observed Release Factor:	0
--------------------------	---

Documentation for Sample :

No air samples were collected as part of this investigation.

Reference: 1

Gas Migration Potential

GAS POTENTIAL TO RELEASE

Source ID	Source Type	Gas Contain. Value (A)	Gas Source Type Value (B)	Gas Migrtn. Potent. Value (C)	Sum (B+C)	Gas Potent: to Rel Value A(B+C)
64th Street Landfil	Landfill	10	11	11	22	220

Gas Potential to Release Factor: 220

Documentation for Gas Containment, Source 64th Street Landfil:

Source does not have an uncontaminated soil cover, nor a cover type that is resistant to gas migration.

Reference: 1,2,3

Documentation for Source Type, Source 64th Street Landfil:

Dainage swales formerly located on the site were filled with municipal wastes during the 1940,s and 1950's. Disposal of industrial also allegedly occured at that time. Costruction and demolition debris was also disposed of on the site.

Reference: 1,2,4

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AIR PATHWAY LIKELIHOOD OF RELEASE
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Documentation for Secondary Source Type, 64th Street Landfil:

N/A

Reference: 1

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AIR PATHWAY LIKELIHOOD OF RELEASE
64th Street-North - 09/18/95

Source: 64th Street Landfil

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value
-----	-----
Dibenzofuran	11
Hexachlorocyclohexane, beta-	6
Mercury	11
Methoxychlor	6
Nitrosodiphenylamine, N-	6
PCBs	11

Average of Gas Migration Potential Value for 3 Hazardous Substances: 11.000
=====

Gas Migration Potential Value From Table 6-7: 11

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 AIR PATHWAY LIKELIHOOD OF RELEASE
 64th Street-North - 09/18/95

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Particulate Migration Potential

PARTICULATE POTENTIAL TO RELEASE

Source ID	Source Type	Partic. Contain. Value (A)	Partic. Source Type Value (B)	Partic. Migrtn. Potent. Value (C)	Sum (B+C)	Partic. Potential to Rel. Value A(B+C)
64th Street Landfil	Landfill	10	22	6	28	280

Particulate Potential to Release Factor: 280

Documentation for Particulate Containment, Source 64th Street Landfil:

The source does not have an uncontaminated cover, nor a cover type resistant to gas migration.

Reference: 1,2,3

Documentation for Source Type, Source 64th Street Landfil:

Dainage swales formerly located on the site were filled with municipal wastes during the 1940,s and 1950's. Disposal of industrial also allegedly occured at that time. Costruction and demolition debris was also disposed of on the site.

Reference: 1,2,4

PREscore 3.0 - PRESCORE.TCL File 07/25/94
AIR PATHWAY LIKELIHOOD OF RELEASE
64th Street-North - 09/18/95

Documentation for Secondary Source Type, 64th Street Landfil:

N/A

Reference: 1

Documentation for Particulate Migration Potential:

HRS Figure 6-2

Reference: 3

Source: 64th Street Landfil

Particulate Hazardous Substance

Antimony
Chromium(VI)
Dibenzofuran
Hexachlorocyclohexane, beta-
Lead
Mercury
Methoxychlor
Nitrosodiphenylamine, N-
PCBs

PREscore 3.0 - PRESCORE.TCL File 07/25/94
AIR PATHWAY WASTE CHARACTERISTICS
64th Street-North - 09/18/95

Source: 1 64th Street Landfil

Source Hazardous Waste Quantity Value: 531.69

Hazardous Substance	Toxicity Value	Gas Mobility Value	Particulate Mobility Value	Toxicity, Mobility Value
-----	-----	-----	-----	-----
Antimony	10000	NA	2.00E-04	2.00E+00
Chromium(VI)	10000	NA	2.00E-04	2.00E+00
Dibenzofuran	100	2.00E-02	2.00E-04	2.00E+00
Hexachlorocyclohexane, beta-	100	2.00E-03	2.00E-04	2.00E-01
Lead	10000	NA	2.00E-04	2.00E+00
Mercury	10000	2.00E-01	2.00E-04	2.00E+03
Methoxychlor	100	2.00E-03	2.00E-04	2.00E-01
Nitrosodiphenylamine, N-	10	2.00E-02	2.00E-04	2.00E-01
PCBs	10000	2.00E-02	2.00E-04	2.00E+02

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AIR PATHWAY WASTE CHARACTERISTICS
64th Street-North - 09/18/95

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Hazardous Substances Found in an Observed Release

Sample Observed Release ID Hazardous Substance	Particulate Toxicity/ Mobility Value	Gas Toxicity/ Mobility Value
---	--	------------------------------------

- N/A and/or data not specified

Documentation for Particulate Mobility:

HRS Figure 6-3

Reference: 3

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AIR PATHWAY WASTE CHARACTERISTICS
64th Street-North - 09/18/95

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Toxicity/Mobility Value from Source Hazardous Substances:	2.00E+3
Toxicity/Mobility Value from Observed Release Hazardous Substances:	0.00E+0
Toxicity/Mobility Factor:	2.00E+0
Sum of Source Hazardous Waste Quantity Values:	5.32E+1
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	18

Actual Contamination

No. Sample ID	Distance (miles)	Level of Contamination
---------------	---------------------	------------------------

 - N/A and/or data not specified

Potential Contamination

Distance Categories Subject
 to Potential Contamination

Population

Value

Onsite	0.0	0.0000
> 0 to 1/4 mile	1475.0	40.8000
> 1/4 to 1/2 mile	1475.0	8.8000
> 1/2 to 1 mile	2952.0	2.6000
> 1 to 2 miles	30000.0	8.3000
> 2 to 3 miles	18000.0	3.8000
> 3 to 4 miles	18000.0	2.3000

 Potential Contaminantion Factor: 67.0000

Documentation for Population > 0 to 1/4 mile Distance Category:

Population numbers obtained from PSA volume I Report

Reference: 1

Documentation for Population > 1/4 to 1/2 mile Distance Category:

see above

Reference:

AIR PATHWAY TARGETS

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Documentation for Population > 1/2 to 1 mile Distance Category:

see above

Reference:

Documentation for Population > 1 to 2 miles Distance Category:

see above

Reference:

Documentation for Population > 2 to 3 miles Distance Category:

see above

Reference:

Documentation for Population > 3 to 4 miles Distance Category:

see above

Reference:

Nearest Individual Factor

Level of Contamination: Potential
Distance in miles: 0 to 1/8

Nearest Individual Value: 20

Documentation for Nearest Individual:

Individuals reside within approximately 200 feet of the site.

Reference: 1,2,7

Resources

Resource Use: NO

Resource Value: 0

Documentation for Resources:

No resources identified.

Reference: 1,3

PREscore 3.0 - PRESCORE.TCL File 07/25/94
AIR PATHWAY TARGETS
64th Street-North - 09/18/95

Actual Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value

- N/A and/or data not specified		

Actual Contamination, Wetlands

Distance Category	Wetland Acreage	Wetland Acreage Value

- N/A and/or data not specified		

=====

Sensitive Environments Actual Contamination Factor: 0.000
(Sum of Sensitive Environments + Wetlands Values)

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 AIR PATHWAY TARGETS
 64th Street-North - 09/18/95

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Potential Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value	Distance Weight	Weighted Value/10

- N/A and/or data not specified				

Potential Contamination, Wetlands

Distance Category	Wetland Acreage	Wetland Acreage Value	Distance Weight	Weighted Value/10

Onsite	1.0	25.0	1.0000	2.500

Total Wetland Acreage: 1.0				

Sum of Wetland Weighted Acreage Values/10: 2.500

=====

Sensitive Environment Potential Contamination Factor: 3.000

Documentation for Sensitive Environment Wetland TW-3:

Reference:

64th Street-North - 09/18/95

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10. Coleman, J., 1993, Niagara County Water Authority, Personal Communication with Chad Eich, Ecology and Environment Engineering, P.C.
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