

September 25, 1997

Mr. John Smith  
Niagara River World  
4000 River Road  
Tonawanda, New York 14150

RE: Niagara River World  
4000 River Road  
Tonawanda, New York 14150

Dear Mr. Smith:

Chopra-Lee, Inc. was retained by Niagara River World to investigate the southern most section (approximately 20 acres) of the former Roblin Steel Plant addressed at 4000 River Road in Tonawanda, presently owned by Niagara River World. The objective of the project was to undertake a Remedial Investigation / Feasibility Study (RI/FS) and develop a Proposed Remedial Action Plan (PRAP) for the site to establish the potential for a delisting from the present New York State Department of Environmental Conservation (NYSDEC) Class 2 Inactive Hazardous Waste Site Listing that the entire 62+ acre former Roblin Steel Plant site is presently listed.

Earth Dimension, Inc. was contracted to install a series of five 2" groundwater monitor wells and drill eight subsurface investigative boreholes at the proposed remedial area in July of this year.

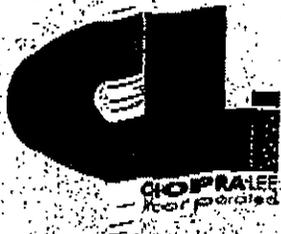
The soils from the investigative boreholes and the drilling of the monitor wells, along with groundwater from the newly installed monitor wells were analyzed for volatiles, semi-volatiles, and metals using the Target Compound List (TCL).

The results of the analysis of the groundwater showed elevated levels of the volatile compounds *cis*-1,2-dichloroethene, and 1,1-dichloroethane. The compounds were found in three of the five wells that were sampled.

The soil investigation showed that, on the average, the top 0' to 12+'' of the site consists of slag-type materials resulting from disposal of the byproduct operations of the steel plant over the years. The analysis of the slag materials, and underlying native clays showed elevated levels of some polynuclear aromatic hydrocarbons (PAH) compounds such as *chrysene*, *hexachlorobenzene*, and *benzo(a)anthracene* with the highest levels found in the vicinity of the Marathon Oil site which is adjacent and to the west of the proposed remedial area.

The investigation for metals in the groundwater and soils showed elevated levels of metals which may be attributed to the amount of slag materials that are suspected to be located on the site.

The metals that were found at the site at this time do not appear to be a concern due to the fact that the site was a steel plant since the turn of the century and that high concentrations of metals are commonly associated with steel plant operations.



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The areas of concern at this time are the volatile and semi-volatile compounds that were found during the investigation. The dichloroethane and dichloroethene that were found came from monitor wells that are located along the northern boundary of the proposed remedial site (near the Enviroteck cleanup site) and at the southwest corner of the proposed remedial area adjacent to Marathon Oil. The greatest amounts and highest concentrations of the PAH's were found in borehole # 8 which is located near the Marathon Oil site.

PAH's are a component of asphalt tar which is the product that Marathon Oil presently and historically has stored in the large aboveground storage tanks located on the site. Some PAH's are known carcinogens.

The dichloroethane and dichloroethene compounds found at the site are solvent materials that are derivatives of trichloroethene, which is known to be a waste solvent material associated with the incomplete Enviroteck cleanup.

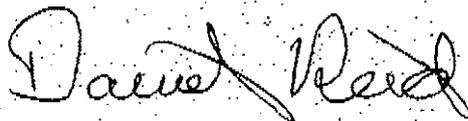
Comparing historic monitor well sampling results of monitor well GW-7 (which was incorporated into this investigation) has shown increasing levels of the dichloroethane and dichloroethene in the water over the past decade.

At this time it is recommended that the a limited groundwater investigation of the entire 62 acre site be initiated to include historic monitor wells GW-2 - GW-6 which are located on the northern and western property boundary. The groundwater should be analyzed to see if levels of the dichloroethane and even trichloroethane or any other volatile or semi-volatile compounds which are not historically associated with the steel industry are present. The volatiles are suspected at this time to be spreading from the Enviroteck facility of which cleanup work has ceased and is not complete.

In addition at this is recommended that a limited soil investigation near the property boundary with Marathon Oil be performed. A series of trench pits are recommended near the fence line to investigate if any gross contamination exists from the Marathon site which may be spreading to the proposed remedial site. During the installation of monitor well NW-3 oily soils were found in the 8' - 10' range.

If you have any questions or inquiries, or require additional information, please feel free to contact me at 716-773-7625, my fax number is 716-773-7624.

Sincerely,



Daniel Reid  
Certified Environmental Inspector- Chopra-Lee, Inc.

## Sample Results Table

NW-1

294709

Semi Vol - TCL

Date Completed: 7/31/97

Method	Analyte	Analytical Sensitivity	Sample Concentration
SYN 6 8270 / GC-MS	1,2,4-Trichlorobenzene	10 ug/L	ND
	1,2-Dichlorobenzene	10 ug/L	ND
	1,2-Diphenylhydrazine	10 ug/L	ND
	1,3-Dichlorobenzene	10 ug/L	ND
	1,4-Dichlorobenzene	10 ug/L	ND
	2,2'-Oxybis(1-chloropropane)	10 ug/L	ND
	2,4,5-Trichlorophenol	10 ug/L	ND
	2,4,6-Tribromophenol	10 ug/L	ND
	2,4,6-Trichlorophenol	10 ug/L	ND
	2,4-Dichlorophenol	10 ug/L	ND
	2,4-Dimethylphenol	10 ug/L	ND
	2,4-Dinitrophenol	10 ug/L	ND
	2,4-Dinitrotoluene	10 ug/L	ND
	2-Chloronaphthalene	10 ug/L	ND
	2-Chlorophenol	10 ug/L	ND
	2-Fluorophenol	10 ug/L	ND
	2-Methylnaphthalene	10 ug/L	ND
	2-Methylphenol	10 ug/L	ND
	2-Nitroaniline	10 ug/L	ND
	2-Nitrophenol	10 ug/L	ND
	3,3'-Dichlorobenzidine	10 ug/L	ND
	3-Nitroaniline	10 ug/L	ND
	4,6-Dinitro-2-methyl phenol	10 ug/L	ND
	4-Bromophenyl phenyl ether	10 ug/L	ND
	4-Chloro-3-methylphenol	10 ug/L	ND
	4-Chloroaniline	10 ug/L	ND
	4-Chlorophenyl phenyl ether	10 ug/L	ND
	4-Methylphenol	10 ug/L	ND
	4-Nitroaniline	10 ug/L	ND
	4-Nitrophenol	10 ug/L	ND
	Acenaphthene	10 ug/L	ND
	Acenaphthylene	10 ug/L	ND
	Aniline	10 ug/L	ND
Anthracene	10 ug/L	ND	
Benzidine	10 ug/L	ND	
Benzo(a)anthracene	10 ug/L	ND	

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

NW-1

294709

SY# 846 8270 / GC-MS			
	Benzo(a)pyrene	10 ug/L	ND
	Benzo(b)fluoranthene	10 ug/L	ND
	Benzo(g,h,i)perylene	10 ug/L	ND
	Benzo(k)fluoranthene	10 ug/L	ND
	Benzoic acid	10 ug/L	ND
	Benzyl alcohol	10 ug/L	ND
	Bis (2-chloroethoxy) methane	10 ug/L	ND
	Bis (2-chloroethyl) ether	10 ug/L	ND
	Bis (2-ethylhexyl) phthalate	10 ug/L	ND
	Butyl benzyl phthalate	10 ug/L	ND
	Carbazole	10 ug/L	ND
	Chrysene	10 ug/L	ND
	Di-n-butyl phthalate	10 ug/L	ND
	Di-n-octyl phthalate	10 ug/L	ND
	Dibenz(a,h)anthracene	10 ug/L	ND
	Diebenzofuran	10 ug/L	ND
	Diethyl phthalate	10 ug/L	ND
	Dimethyl phthalate	10 ug/L	ND
	Fluoranthene	10 ug/L	ND
	Fluorene	10 ug/L	ND
	Hexachlorobenzene	10 ug/L	ND
	Hexachlorobutadiene	10 ug/L	ND
	Hexachlorocyclopentadiene	10 ug/L	ND
	Hexachloroethane	10 ug/L	ND
	Indeno(1,2,3-cd)pyrene	10 ug/L	ND
	Isophorone	10 ug/L	ND
	N-Nitroso-di-n-propylamine	10 ug/L	ND
	N-Nitrosodimethylamine	10 ug/L	ND
	N-Nitrosodiphenylamine	10 ug/L	ND
	Napthalene	10 ug/L	ND
	Nitrobenzene	10 ug/L	ND
	Pentachlorophenol	10 ug/L	ND
	Phenanthrene	10 ug/L	ND
	Phenol	10 ug/L	ND
	Pyrene	10 ug/L	ND

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

**NW-1**

**294709**

**Volatiles - TCL**

**Date Completed: 7/21/97**

Method	Analyte	Analytical Sensitivity	Sample Concentration
SPV 146 8260 / GC-MS	1,1,1,2-Tetrachloroethane	1 ug/L	ND
	1,1,1-Trichloroethane	1 ug/L	ND
	1,1,2,2-Tetrachloroethane	1 ug/L	ND
	1,1,2-Trichloroethane	1 ug/L	ND
	1,1-Dichloroethane	1 ug/L	ND
	1,1-Dichloroethene	1 ug/L	ND
	1,1-Dichloropropene	1 ug/L	ND
	1,2,3-Trichlorobenzene	1 ug/L	ND
	1,2,3-Trichloropropane	1 ug/L	ND
	1,2,4-Trichlorobenzene	1 ug/L	ND
	1,2,4-Trimethylbenzene	1 ug/L	ND
	1,2-Dibromo-3-Chloropropane	1 ug/L	ND
	1,2-Dibromoethane	1 ug/L	ND
	1,2-Dichlorobenzene	1 ug/L	ND
	1,2-Dichloroethane	1 ug/L	ND
	1,2-Dichloropropane	1 ug/L	ND
	1,3,5-Trimethylbenzene	1 ug/L	ND
	1,3-Dichlorobenzene	1 ug/L	ND
	1,3-Dichloropropene	1 ug/L	ND
	1,4-Dichlorobenzene	1 ug/L	ND
	2,2-Dichloropropane	1 ug/L	ND
	2-Chlorotoluene	1 ug/L	ND
	4-Chlorotoluene	1 ug/L	ND
	Benzene	1 ug/L	ND
	Bromobenzene	1 ug/L	ND
	Bromodichloromethane	1 ug/L	ND
	Bromoform	1 ug/L	ND
	Bromomethane	1 ug/L	ND
	Carbon tetrachloride	1 ug/L	ND
	Chlorobenzene	1 ug/L	ND
	Chlorodibromomethane	1 ug/L	ND
	Chloroethane	1 ug/L	ND
Chloroform	1 ug/L	ND	
Chloromethane	1 ug/L	ND	
cis-1,2-Dichloroethene	1 ug/L	ND	
cis-1,3-Dichloropropene	1 ug/L	ND	

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

NY-1

294709

SW 146 8260 / GC-MS			
	Dibromomethane	1 ug/L	ND
	Dichlorodifluoromethane	1 ug/L	ND
	Ethylbenzene	1 ug/L	ND
	Hexachlorobutadiene	1 ug/L	ND
	Isopropylbenzene	1 ug/L	ND
	M+P-Xylene	1 ug/L	ND
	Methylene chloride	1 ug/L	ND
	n-Butylbenzene	1 ug/L	ND
	n-Propylbenzene	1 ug/L	ND
	Napthalene	1 ug/L	<1.00 ug/L
	o-Xylene	1 ug/L	ND
	p-Isopropyltoluene	1 ug/L	ND
	sec-Butylbenzene	1 ug/L	ND
	Styrene	1 ug/L	ND
	tert-Butylbenzene	1 ug/L	ND
	Tetrachloroethene	1 ug/L	ND
	Toluene	1 ug/L	<1.00 ug/L
	trans-1,2-Dichloroethene	1 ug/L	ND
	Trans-1,3-Dichloroporpene	1 ug/L	ND
	Trichloroethene	1 ug/L	ND
	Trichlorofluoromethane	1 ug/L	ND
	Vinyl chloride	1 ug/L	ND

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## Sample Results Table

NW72

294710

23- Metals - TCL

Date Completed: 9/18/97

Method	Analyte	Analytical Sensitivity	Sample Concentration	
SW 86 6010 / ICP	Aluminum	0.005 mg/l	210 mg/l	
	Antimony	0.005 mg/l	<0.00500 mg/l	
	Arsenic	0.01 mg/l	0.0516 mg/l	
	Barium	0.005 mg/l	1.36 mg/l	
	Beryllium	0.001 mg/l	0.0168 mg/l	
	Cadmium	0.005 mg/l	0.0368 mg/l	
	Calcium	0.01 mg/l	865 mg/l	
	Chromium	0.005 mg/l	1.28 mg/l	
	Cobalt	0.002 mg/l	0.0630 mg/l	
	Copper	0.003 mg/l	0.331 mg/l	
	Iron	0.02 mg/l	195 mg/l	
	Lead	0.01 mg/l	0.625 mg/l	
	Magnesium	0.005 mg/l	251 mg/l	
	Manganese	0.001 mg/l	28.5 mg/l	
	SW 86 7470 / AAS	Mercury	0.0002 mg/l	<0.000200 mg/l
		Nickel	0.001 mg/l	0.206 mg/l
	SW 86 6010 / ICP	Potassium	0.001 mg/l	50.7 mg/l
Scelenium		0.001 mg/l	<0.00100 mg/l	
Silver		0.005 mg/l	<0.00500 mg/l	
Sodium		0.005 mg/l	3.39 mg/l	
Thallium		0.005 mg/l	0.0554 mg/l	
Vanadium		0.005 mg/l	0.371 mg/l	
Zinc		0.005 mg/l	2.36 mg/l	

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## Sample Results Table

NO2

294710

Sen Vol - TCL

Date Completed: 7/31/97

Method	Analyte	Analytical Sensitivity	Sample Concentration
SW# 8270 / GC-MS	1,2,4-Trichlorobenzene	10 ug/L	ND
	1,2-Dichlorobenzene	10 ug/L	ND
	1,2-Diphenylhydrazine	10 ug/L	ND
	1,3-Dichlorobenzene	10 ug/L	ND
	1,4-Dichlorobenzene	10 ug/L	ND
	2,2'-Oxybis(1-chloropropane)	10 ug/L	ND
	2,4,5-Trichlorophenol	10 ug/L	ND
	2,4,6-Tribromophenol	10 ug/L	ND
	2,4,6-Trichlorophenol	10 ug/L	ND
	2,4-Dichlorophenol	10 ug/L	ND
	2,4-Dimethylphenol	10 ug/L	ND
	2,4-Dinitrophenol	10 ug/L	ND
	2,4-Dinitrotoluene	10 ug/L	ND
	2-Chloronaphthalene	10 ug/L	ND
	2-Chlorophenol	10 ug/L	ND
	2-Fluorophenol	10 ug/L	ND
	2-Methylnaphthalene	10 ug/L	ND
	2-Methylphenol	10 ug/L	ND
	2-Nitroaniline	10 ug/L	ND
	2-Nitrophenol	10 ug/L	ND
	3,3'-Dichlorobenzidine	10 ug/L	ND
	3-Nitroaniline	10 ug/L	ND
	4,6-Dinitro-2-methyl phenol	10 ug/L	ND
	4-Bromophenyl phenyl ether	10 ug/L	ND
	4-Chloro-3-methylphenol	10 ug/L	ND
	4-Chloroaniline	10 ug/L	ND
	4-Chlorophenyl phenyl ether	10 ug/L	ND
	4-Methylphenol	10 ug/L	ND
	4-Nitroaniline	10 ug/L	ND
	4-Nitrophenol	10 ug/L	ND
	Acenaphthene	10 ug/L	ND
	Acenaphthylene	10 ug/L	ND
	Aniline	10 ug/L	ND
	Anthracene	10 ug/L	ND
Benzidine	10 ug/L	ND	
Benzo(a)anthracene	10 ug/L	ND	

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

NYV-2

294710

SW 86 8270/ GC-MS			
	Benzo(a)pyrene	10 ug/L	ND
	Benzo(b)fluoranthene	10 ug/L	ND
	Benzo(g,h,i)perylene	10 ug/L	ND
	Benzo(k)fluoranthene	10 ug/L	ND
	Benzoic acid	10 ug/L	ND
	Benzyl alcohol	10 ug/L	ND
	Bis (2-chloroethoxy) methane	10 ug/L	ND
	Bis (2-chloroethyl) ether	10 ug/L	ND
	Bis (2-ethylhexyl) phthalate	10 ug/L	ND
	Butyl benzyl phthalate	10 ug/L	ND
	Carbazole	10 ug/L	ND
	Chrysene	10 ug/L	ND
	Di-n-butyl phthalate	10 ug/L	ND
	Di-n-octyl phthalate	10 ug/L	ND
	Dibenz(a,h)anthracene	10 ug/L	ND
	Diebenzofuran	10 ug/L	ND
	Diethyl phthalate	10 ug/L	ND
	Dimethyl phthalate	10 ug/L	ND
	Fluoranthene	10 ug/L	ND
	Fluorene	10 ug/L	ND
	Hexachlorobenzene	10 ug/L	ND
	Hexachlorobutadiene	10 ug/L	ND
	Hexachlorocyclopentadiene	10 ug/L	ND
	Hexachloroethane	10 ug/L	ND
	Indeno(1,2,3-cd)pyrene	10 ug/L	ND
	Isophorone	10 ug/L	ND
	N-Nitroso-di-n-propylamine	10 ug/L	ND
	N-Nitrosodimethylamine	10 ug/L	ND
	N-Nitrosodiphenylamine	10 ug/L	ND
	Napthalene	10 ug/L	ND
	Nitrobenzenc	10 ug/L	ND
	Pentachlorophenol	10 ug/L	ND
	Phenanthrene	10 ug/L	ND
	Phenol	10 ug/L	<10.0 ug/L
	Pyrene	10 ug/L	ND

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

NLW2

294710

Volatiles - TCL

Date Completed: 8/4/97

Method	Analyte	Analytical Sensitivity	Sample Concentration
SW #6 8260/ GC-MS	1,1,1,2-Tetrachloroethane	1 ug/L	ND
	1,1,1-Trichloroethane	1 ug/L	ND
	1,1,2,2-Tetrachloroethane	1 ug/L	ND
	1,1,2-Trichloroethane	1 ug/L	ND
	1,1-Dichloroethane	1 ug/L	ND
	1,1-Dichloroethene	1 ug/L	ND
	1,1-Dichloropropene	1 ug/L	ND
	1,2,3-Trichlorobenzene	1 ug/L	ND
	1,2,3-Trichloropropane	1 ug/L	ND
	1,2,4-Trichlorobenzene	1 ug/L	ND
	1,2,4-Trimethylbenzene	1 ug/L	ND
	1,2-Dibromo-3-Chloropropane	1 ug/L	ND
	1,2-Dibromoethane	1 ug/L	ND
	1,2-Dichlorobenzene	1 ug/L	ND
	1,2-Dichloroethane	1 ug/L	ND
	1,2-Dichloropropane	1 ug/L	ND
	1,3,5-Trimethylbenzene	1 ug/L	ND
	1,3-Dichlorobenzene	1 ug/L	ND
	1,3-Dichloropropene	1 ug/L	ND
	1,4-Dichlorobenzene	1 ug/L	ND
	2,2-Dichloropropane	1 ug/L	ND
	2-Chlorotoluene	1 ug/L	ND
	4-Chlorotoluene	1 ug/L	ND
	Benzene	1 ug/L	ND
	Bromobenzene	1 ug/L	ND
	Bromodichloromethane	1 ug/L	ND
	Bromoform	1 ug/L	ND
	Bromomethane	1 ug/L	ND
	Carbon tetrachloride	1 ug/L	ND
	Chlorobenzene	1 ug/L	ND
	Chlorodibromomethane	1 ug/L	ND
	Chloroethane	1 ug/L	ND
Chloroform	1 ug/L	ND	
Chloromethane	1 ug/L	ND	
cis-1,2-Dichloroethene	1 ug/L	18.6 ug/L	
cis-1,3-Dichloropropene	1 ug/L	ND	

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

NP12

294710

SW#	GC-MS	Compound	Concentration	Result
46	8260	Dibromomethane	1 ug/L	ND
		Dichlorodifluoromethane	1 ug/L	ND
		Ethylbenzene	1 ug/L	ND
		Hexachlorobutadiene	1 ug/L	ND
		Isopropylbenzene	1 ug/L	ND
		M+P-Xylene	1 ug/L	ND
		Methylene chloride	1 ug/L	ND
		n-Butylbenzene	1 ug/L	ND
		n-Propylbenzene	1 ug/L	ND
		Napthalene	1 ug/L	<1.00 ug/L
		o-Xylene	1 ug/L	ND
		p-Isopropyltoluene	1 ug/L	ND
		sec-Butylbenzene	1 ug/L	ND
		Styrene	1 ug/L	ND
		tert-Butylbenzene	1 ug/L	ND
		Tetrachloroethene	1 ug/L	ND
		Toluene	1 ug/L	<1.00 ug/L
		trans-1,2-Dichloroethene	1 ug/L	ND
		Trans-1,3-Dichloroporpene	1 ug/L	ND
		Trichloroethene	1 ug/L	ND
		Trichlorofluoromethane	1 ug/L	ND
		Vinyl chloride	1 ug/L	ND

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

NW-4

294711

**23- Metals - TCL**

Date Completed: 9/18/97

Method	Analyte	Analytical Sensitivity	Sample Concentration	
SW 846 6010 / ICP	Aluminum	0.005 mg/l	258 mg/l	
	Antimony	0.005 mg/l	0.0340 mg/l	
	Arsenic	0.01 mg/l	0.144 mg/l	
	Barium	0.005 mg/l	2.38 mg/l	
	Beryllium	0.001 mg/l	0.0119 mg/l	
	Cadmium	0.005 mg/l	0.0266 mg/l	
	Calcium	0.01 mg/l	506 mg/l	
	Chromium	0.005 mg/l	0.627 mg/l	
	Cobalt	0.002 mg/l	0.112 mg/l	
	Copper	0.003 mg/l	0.592 mg/l	
	Iron	0.02 mg/l	585 mg/l	
	Lead	0.01 mg/l	0.984 mg/l	
	Magnesium	0.005 mg/l	147 mg/l	
	Manganese	0.001 mg/l	14.2 mg/l	
	SW 846 7470 / AAS	Mercury	0.0002 mg/l	<0.000200 mg/l
		Nickel	0.001 mg/l	0.324 mg/l
SW 846 6010 / ICP	Potassium	0.001 mg/l	46.3 mg/l	
	Selenium	0.001 mg/l	<0.00100 mg/l	
	Silver	0.005 mg/l	<0.00500 mg/l	
	Sodium	0.005 mg/l	45.6 mg/l	
	Thallium	0.005 mg/l	0.0156 mg/l	
	Vanadium	0.005 mg/l	0.323 mg/l	
	Zinc	0.005 mg/l	2.32 mg/l	

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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1815 Love Road  
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## Sample Results Table

NY 294711

294711

Se Vol - TCL

Date Completed: 7/31/97

Method	Analyte	Analytical Sensitivity	Sample Concentration
SW 16 8270 / GC-MS	1,2,4-Trichlorobenzene	10 ug/L	ND
	1,2-Dichlorobenzene	10 ug/L	ND
	1,2-Diphenylhydrazine	10 ug/L	ND
	1,3-Dichlorobenzene	10 ug/L	ND
	1,4-Dichlorobenzene	10 ug/L	ND
	2,2'-Oxybis(1-chloropropane)	10 ug/L	ND
	2,4,5-Trichlorophenol	10 ug/L	ND
	2,4,6-Tribromophenol	10 ug/L	ND
	2,4,6-Trichlorophenol	10 ug/L	ND
	2,4-Dichlorophenol	10 ug/L	ND
	2,4-Dimethylphenol	10 ug/L	ND
	2,4-Dinitrophenol	10 ug/L	ND
	2,4-Dinitrotoluene	10 ug/L	ND
	2-Chloronaphthalene	10 ug/L	ND
	2-Chlorophenol	10 ug/L	ND
	2-Fluorophenol	10 ug/L	ND
	2-Methylnaphthalene	10 ug/L	ND
	2-Methylphenol	10 ug/L	ND
	2-Nitroaniline	10 ug/L	ND
	2-Nitrophenol	10 ug/L	ND
	3,3'-Dichlorobenzidine	10 ug/L	ND
	3-Nitroaniline	10 ug/L	ND
	4,6-Dinitro-2-methyl phenol	10 ug/L	ND
	4-Bromophenyl phenyl ether	10 ug/L	ND
	4-Chloro-3-methylphenol	10 ug/L	ND
	4-Chloroaniline	10 ug/L	ND
	4-Chlorophenyl phenyl ether	10 ug/L	ND
	4-Methylphenol	10 ug/L	ND
	4-Nitroaniline	10 ug/L	ND
	4-Nitrophenol	10 ug/L	ND
	Acenaphthene	10 ug/L	ND
Acenaphthylene	10 ug/L	ND	
Aniline	10 ug/L	ND	
Anthracene	10 ug/L	ND	
Benzidine	10 ug/L	ND	
Benzo(a)anthracene	10 ug/L	ND	

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

NR14

294711

SW#K6 8270/ GC-MS

Benzo(a)pyrene	10 ug/L	ND
Benzo(b)fluoranthene	10 ug/L	ND
Benzo(g,h,i)perylene	10 ug/L	ND
Benzo(k)fluoranthene	10 ug/L	ND
Benzoic acid	10 ug/L	ND
Benzyl alcohol	10 ug/L	ND
Bis (2-chloroethoxy) methane	10 ug/L	ND
Bis (2-chloroethyl) ether	10 ug/L	ND
Bis (2-ethylhexyl) phthalate	10 ug/L	ND
Butyl benzyl phthalate	10 ug/L	ND
Carbazole	10 ug/L	ND
Chrysene	10 ug/L	ND
Di-n-butyl phthalate	10 ug/L	ND
Di-n-octyl phthalate	10 ug/L	ND
Dibenz(a,h)anthracene	10 ug/L	ND
Diebenzofuran	10 ug/L	ND
Diethyl phthalate	10 ug/L	ND
Dimethyl phthalate	10 ug/L	ND
Fluoranthene	10 ug/L	ND
Fluorene	10 ug/L	ND
Hexachlorobenzene	10 ug/L	ND
Hexachlorobutadiene	10 ug/L	ND
Hexachlorocyclopentadiene	10 ug/L	ND
Hexachloroethane	10 ug/L	ND
Indeno(1,2,3-cd)pyrene	10 ug/L	ND
Isophorone	10 ug/L	ND
N-Nitroso-di-n-propylamine	10 ug/L	ND
N-Nitrosodimethylamine	10 ug/L	ND
N-Nitrosodiphenylamine	10 ug/L	ND
Napthalene	10 ug/L	ND
Nitrobenzene	10 ug/L	ND
Pentachlorophenol	10 ug/L	ND
Phenanthrene	10 ug/L	ND
Phenol	10 ug/L	ND
Pyrene	10 ug/L	ND

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

NYN4

294711

Volatile - TCL

Date Completed: 8/4/97

Method	Analyte	Analytical Sensitivity	Sample Concentration
SW #6 8260 / GC-MS	1,1,1,2-Tetrachloroethane	1 ug/L	ND
	1,1,1-Trichloroethane	1 ug/L	ND
	1,1,2,2-Tetrachloroethane	1 ug/L	ND
	1,1,2-Trichloroethane	1 ug/L	ND
	1,1-Dichloroethane	1 ug/L	10.0 ug/L
	1,1-Dichloroethene	1 ug/L	ND
	1,1-Dichloropropene	1 ug/L	ND
	1,2,3-Trichlorobenzene	1 ug/L	ND
	1,2,3-Trichloropropane	1 ug/L	ND
	1,2,4-Trichlorobenzene	1 ug/L	ND
	1,2,4-Trimethylbenzene	1 ug/L	ND
	1,2-Dibromo-3-Chloropropane	1 ug/L	ND
	1,2-Dibromoethane	1 ug/L	ND
	1,2-Dichlorobenzene	1 ug/L	ND
	1,2-Dichloroethane	1 ug/L	ND
	1,2-Dichloropropane	1 ug/L	ND
	1,3,5-Trimethylbenzene	1 ug/L	ND
	1,3-Dichlorobenzene	1 ug/L	ND
	1,3-Dichloropropene	1 ug/L	ND
	1,4-Dichlorobenzene	1 ug/L	ND
	2,2-Dichloropropane	1 ug/L	ND
	2-Chlorotoluene	1 ug/L	ND
	4-Chlorotoluene	1 ug/L	ND
	Benzene	1 ug/L	ND
	Bromobenzene	1 ug/L	ND
	Bromodichloromethane	1 ug/L	ND
	Bromoform	1 ug/L	ND
	Bromomethane	1 ug/L	ND
	Carbon tetrachloride	1 ug/L	ND
	Chlorobenzene	1 ug/L	ND
	Chlorodibromomethane	1 ug/L	ND
	Chloroethane	1 ug/L	ND
	Chloroform	1 ug/L	ND
Chloromethane	1 ug/L	ND	
cis-1,2-Dichloroethene	1 ug/L	9.50 ug/L	
cis-1,3-Dichloropropene	1 ug/L	ND	

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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Alliance Waste World

## Sample Results Table

294711	294711		
SW/86 8260/ GC-MS	Dibromomethane	1 ug/L	ND
	Dichlorodifluoromethane	1 ug/L	ND
	Ethylbenzene	1 ug/L	ND
	Hexachlorobutadiene	1 ug/L	ND
	Isopropylbenzene	1 ug/L	ND
	M+P-Xylene	1 ug/L	ND
	Methylene chloride	1 ug/L	ND
	n-Butylbenzene	1 ug/L	ND
	n-Propylbenzene	1 ug/L	ND
	Napthalene	1 ug/L	ND
	o-Xylene	1 ug/L	ND
	p-Isopropyltoluene	1 ug/L	ND
	sec-Butylbenzene	1 ug/L	ND
	Styrene	1 ug/L	ND
	tert-Butylbenzene	1 ug/L	ND
	Tetrachloroethene	1 ug/L	ND
	Toluene	1 ug/L	ND
	trans-1,2-Dichloroethene	1 ug/L	ND
	Trans-1,3-Dichloroporpene	1 ug/L	ND
	Trichloroethene	1 ug/L	ND
	Trichlorofluoromethane	1 ug/L	ND
	Vinyl chloride	1 ug/L	ND

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

NW5

294712

23 Metals - TCL

Date Completed: 9/18/97

Method	Analyte	Analytical Sensitivity	Sample Concentration	
SW 846 6010 / ICP	Aluminum	0.005 mg/l	33.7 mg/l	
	Antimony	0.005 mg/l	<0.00500 mg/l	
	Arsenic	0.01 mg/l	0.0105 mg/l	
	Barium	0.005 mg/l	0.300 mg/l	
	Beryllium	0.001 mg/l	0.00100 mg/l	
	Cadmium	0.005 mg/l	<0.00500 mg/l	
	Calcium	0.01 mg/l	190 mg/l	
	Chromium	0.005 mg/l	0.132 mg/l	
	Cobalt	0.002 mg/l	0.00760 mg/l	
	Copper	0.003 mg/l	0.0457 mg/l	
	Iron	0.02 mg/l	39.8 mg/l	
	Lead	0.01 mg/l	0.0634 mg/l	
	Magnesium	0.005 mg/l	46.0 mg/l	
	Manganese	0.001 mg/l	0.651 mg/l	
	SW 846 7470 / AAS	Mercury	0.0002 mg/l	<0.000200 mg/l
		SW 846 6010 / ICP	Nickel	0.001 mg/l
Potassium	0.001 mg/l		23.2 mg/l	
Selenium	0.001 mg/l		<0.00100 mg/l	
Silver	0.005 mg/l		<0.00500 mg/l	
Sodium	0.005 mg/l		0.274 mg/l	
Thallium	0.005 mg/l		<0.00500 mg/l	
Vanadium	0.005 mg/l		0.0332 mg/l	
Zinc	0.005 mg/l		0.186 mg/l	

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

NV 294712

294712

Sample Vol - TCL

Date Completed: 7/31/97

Method	Analyte	Analytical Sensitivity	Sample Concentration
SW % 8270 / GC-MS	1,2,4-Trichlorobenzene	10 ug/L	ND
	1,2-Dichlorobenzene	10 ug/L	ND
	1,2-Diphenylhydrazine	10 ug/L	ND
	1,3-Dichlorobenzene	10 ug/L	ND
	1,4-Dichlorobenzene	10 ug/L	ND
	2,2'-Oxybis(1-chloropropane)	10 ug/L	ND
	2,4,5-Trichlorophenol	10 ug/L	ND
	2,4,6-Tribromophenol	10 ug/L	ND
	2,4,6-Trichlorophenol	10 ug/L	ND
	2,4-Dichlorophenol	10 ug/L	ND
	2,4-Dimethylphenol	10 ug/L	ND
	2,4-Dinitrophenol	10 ug/L	ND
	2,4-Dinitrotoluene	10 ug/L	ND
	2-Chloronaphthalene	10 ug/L	ND
	2-Chlorophenol	10 ug/L	ND
	2-Fluorophenol	10 ug/L	ND
	2-Methylnaphthalene	10 ug/L	ND
	2-Methylphenol	10 ug/L	ND
	2-Nitroaniline	10 ug/L	ND
	2-Nitrophenol	10 ug/L	ND
	3,3'-Dichlorobenzidine	10 ug/L	ND
	3-Nitroaniline	10 ug/L	ND
	4,6-Dinitro-2-methyl phenol	10 ug/L	ND
	4-Bromophenyl phenyl ether	10 ug/L	ND
	4-Chloro-3-methylphenol	10 ug/L	ND
	4-Chloroaniline	10 ug/L	ND
	4-Chlorophenyl phenyl ether	10 ug/L	ND
	4-Methylphenol	10 ug/L	ND
	4-Nitroaniline	10 ug/L	ND
	4-Nitrophenol	10 ug/L	ND
	Acenaphthene	10 ug/L	ND
	Acenaphthylene	10 ug/L	ND
Aniline	10 ug/L	ND	
Anthracene	10 ug/L	ND	
Benzidine	10 ug/L	ND	
Benzo(a)anthracene	10 ug/L	ND	

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

NVW

294712

SW # 8270 / GC-MS			
	Benzo(a)pyrene	10 ug/L	ND
	Benzo(b)fluoranthene	10 ug/L	ND
	Benzo(g,h,i)perylene	10 ug/L	ND
	Benzo(k)fluoranthene	10 ug/L	ND
	Benzoic acid	10 ug/L	ND
	Benzyl alcohol	10 ug/L	ND
	Bis (2-chloroethoxy) methane	10 ug/L	ND
	Bis (2-chloroethyl) ether	10 ug/L	ND
	Bis (2-ethylhexyl) phthalate	10 ug/L	ND
	Butyl benzyl phthalate	10 ug/L	ND
	Carbazole	10 ug/L	ND
	Chrysene	10 ug/L	ND
	Di-n-butyl phthalate	10 ug/L	ND
	Di-n-octyl phthalate	10 ug/L	ND
	Dibenz(a,h)anthracene	10 ug/L	ND
	Diebenzofuran	10 ug/L	ND
	Diethyl phthalate	10 ug/L	ND
	Dimethyl phthalate	10 ug/L	ND
	Fluoranthene	10 ug/L	ND
	Fluorene	10 ug/L	ND
	Hexachlorobenzene	10 ug/L	ND
	Hexachlorobutadiene	10 ug/L	ND
	Hexachlorocyclopentadiene	10 ug/L	ND
	Hexachloroethane	10 ug/L	ND
	Indeno(1,2,3-cd)pyrene	10 ug/L	ND
	Isophorone	10 ug/L	ND
	N-Nitroso-di-n-propylamine	10 ug/L	ND
	N-Nitrosodimethylamine	10 ug/L	ND
	N-Nitrosodiphenylamine	10 ug/L	ND
	Napthalene	10 ug/L	ND
	Nitrobenzene	10 ug/L	ND
	Pentachlorophenol	10 ug/L	ND
	Phenanthrene	10 ug/L	ND
	Phenol	10 ug/L	ND
	Pyrene	10 ug/L	ND

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

NV75

294712

Volatiles - TCL

Date Completed: 8/4/97

Method	Analyte	Analytical Sensitivity	Sample Concentration
SW # 8260/GC-MS	1,1,1,2-Tetrachloroethane	1 ug/L	ND
	1,1,1-Trichloroethane	1 ug/L	ND
	1,1,2,2-Tetrachloroethane	1 ug/L	ND
	1,1,2-Trichloroethane	1 ug/L	ND
	1,1-Dichloroethane	1 ug/L	ND
	1,1-Dichloroethene	1 ug/L	ND
	1,1-Dichloropropene	1 ug/L	ND
	1,2,3-Trichlorobenzene	1 ug/L	ND
	1,2,3-Trichloropropane	1 ug/L	ND
	1,2,4-Trichlorobenzene	1 ug/L	ND
	1,2,4-Trimethylbenzene	1 ug/L	ND
	1,2-Dibromo-3-Chloropropane	1 ug/L	ND
	1,2-Dibromoethane	1 ug/L	ND
	1,2-Dichlorobenzene	1 ug/L	ND
	1,2-Dichloroethane	1 ug/L	ND
	1,2-Dichloropropane	1 ug/L	ND
	1,3,5-Trimethylbenzene	1 ug/L	ND
	1,3-Dichlorobenzene	1 ug/L	ND
	1,3-Dichloropropene	1 ug/L	ND
	1,4-Dichlorobenzene	1 ug/L	ND
	2,2-Dichloropropane	1 ug/L	ND
	2-Chlorotoluene	1 ug/L	ND
	4-Chlorotoluene	1 ug/L	ND
	Benzene	1 ug/L	ND
	Bromobenzene	1 ug/L	ND
	Bromodichloromethane	1 ug/L	ND
	Bromoform	1 ug/L	ND
	Bromomethane	1 ug/L	ND
	Carbon tetrachloride	1 ug/L	ND
	Chlorobenzene	1 ug/L	ND
	Chlorodibromomethane	1 ug/L	ND
	Chloroethane	1 ug/L	ND
	Chloroform	1 ug/L	ND
Chloromethane	1 ug/L	ND	
cis-1,2-Dichloroethene	1 ug/L	ND	
cis-1,3-Dichloropropene	1 ug/L	ND	

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

NYS	294712		
SW 16 82601 GC-MS		Dibromomethane	1 ug/L ND
		Dichlorodifluoromethane	1 ug/L ND
		Ethylbenzene	1 ug/L ND
		Hexachlorobutadiene	1 ug/L ND
		Isopropylbenzene	1 ug/L ND
		M+P-Xylene	1 ug/L ND
		Methylene chloride	1 ug/L ND
		n-Butylbenzene	1 ug/L ND
		n-Propylbenzene	1 ug/L ND
		Napthalene	1 ug/L ND
		o-Xylene	1 ug/L ND
		p-Isopropyltoluene	1 ug/L ND
		sec-Butylbenzene	1 ug/L ND
		Styrene	1 ug/L ND
		tert-Butylbenzene	1 ug/L ND
		Tetrachloroethene	1 ug/L ND
		Toluene	1 ug/L ND
		trans-1,2-Dichloroethene	1 ug/L ND
		Trans-1,3-Dichloroporpene	1 ug/L ND
		Trichloroethene	1 ug/L ND
		Trichlorofluoromethane	1 ug/L ND
		Vinyl chloride	1 ug/L ND

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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 Laboratory # NY702057 0  
 Client: Niagara River World

## Sample Results Table

GLW

294713

23 Metals - TCL

Date Completed: 9/18/97

Method	Analyte	Analytical Sensitivity	Sample Concentration
SW 846010/ICP	Aluminum	0.005 mg/l	3.66 mg/l
	Antimony	0.005 mg/l	<0.00500 mg/l
	Arsenic	0.01 mg/l	0.0117 mg/l
	Barium	0.005 mg/l	0.0653 mg/l
	Beryllium	0.001 mg/l	<0.00100 mg/l
	Cadmium	0.005 mg/l	<0.00500 mg/l
	Calcium	0.01 mg/l	306 mg/l
	Chromium	0.005 mg/l	0.0196 mg/l
	Cobalt	0.002 mg/l	<0.00200 mg/l
	Copper	0.003 mg/l	0.0133 mg/l
	Iron	0.02 mg/l	3.30 mg/l
	Lead	0.01 mg/l	<0.0100 mg/l
	Magnesium	0.005 mg/l	5.63 mg/l
	Manganese	0.001 mg/l	0.113 mg/l
	Mercury	0.0002 mg/l	<0.000200 mg/l
	Nickel	0.001 mg/l	<0.00100 mg/l
	Potassium	0.001 mg/l	48.2 mg/l
SW 847470/AAS SW 846010/ICP	Selenium	0.001 mg/l	<0.00100 mg/l
	Silver	0.005 mg/l	<0.00500 mg/l
	Sodium	0.005 mg/l	73.8 mg/l
	Thallium	0.005 mg/l	<0.00500 mg/l
	Vanadium	0.005 mg/l	<0.00500 mg/l
	Zinc	0.005 mg/l	0.0853 mg/l

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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Client: Niagara River World

## Sample Results Table

GV-7

294713

Semi Vol - TCL

Date Completed: 7/31/97

Method	Analyte	Analytical Sensitivity	Sample Concentration
SW #6 8270 / GC-MS	1,2,4-Trichlorobenzene	10 ug/L	ND
	1,2-Dichlorobenzene	10 ug/L	ND
	1,2-Diphenylhydrazine	10 ug/L	ND
	1,3-Dichlorobenzene	10 ug/L	ND
	1,4-Dichlorobenzene	10 ug/L	ND
	2,2'-Oxybis(1-chloropropane)	10 ug/L	ND
	2,4,5-Trichlorophenol	10 ug/L	ND
	2,4,6-Tribromophenol	10 ug/L	ND
	2,4,6-Trichlorophenol	10 ug/L	ND
	2,4-Dichlorophenol	10 ug/L	ND
	2,4-Dimethylphenol	10 ug/L	ND
	2,4-Dinitrophenol	10 ug/L	ND
	2,4-Dinitrotoluene	10 ug/L	ND
	2-Chloronaphthalene	10 ug/L	ND
	2-Chlorophenol	10 ug/L	ND
	2-Fluorophenol	10 ug/L	ND
	2-Methylnaphthalene	10 ug/L	ND
	2-Methylphenol	10 ug/L	ND
	2-Nitroaniline	10 ug/L	ND
	2-Nitrophenol	10 ug/L	ND
	3,3'-Dichlorobenzidine	10 ug/L	ND
	3-Nitroaniline	10 ug/L	ND
	4,6-Dinitro-2-methyl phenol	10 ug/L	ND
	4-Bromophenyl phenyl ether	10 ug/L	ND
	4-Chloro-3-methylphenol	10 ug/L	ND
	4-Chloroaniline	10 ug/L	ND
	4-Chlorophenyl phenyl ether	10 ug/L	ND
	4-Methylphenol	10 ug/L	ND
	4-Nitroaniline	10 ug/L	ND
	4-Nitrophenol	10 ug/L	ND
	Acenaphthene	10 ug/L	ND
	Acenaphthylene	10 ug/L	ND
	Aniline	10 ug/L	ND
Anthracene	10 ug/L	ND	
Benzidine	10 ug/L	ND	
Benzo(a)anthracene	10 ug/L	ND	

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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Missouri River World

## Sample Results Table

GW4

294713

SW 848270 / GC-MS			
	Benzo(a)pyrene	10 ug/L	ND
	Benzo(b)fluoranthene	10 ug/L	ND
	Benzo(g,h,i)perylene	10 ug/L	ND
	Benzo(k)fluoranthene	10 ug/L	ND
	Benzoic acid	10 ug/L	ND
	Benzyl alcohol	10 ug/L	ND
	Bis (2-chloroethoxy) methane	10 ug/L	ND
	Bis (2-chloroethyl) ether	10 ug/L	ND
	Bis (2-ethylhexyl) phthalate	10 ug/L	ND
	Butyl benzyl phthalate	10 ug/L	ND
	Carbazole	10 ug/L	ND
	Chrysene	10 ug/L	ND
	Di-n-butyl phthalate	10 ug/L	ND
	Di-n-octyl phthalate	10 ug/L	ND
	Dibenz(a,h)anthracene	10 ug/L	ND
	Diebenzofuran	10 ug/L	ND
	Diethyl phthalate	10 ug/L	ND
	Dimethyl phthalate	10 ug/L	ND
	Fluoranthene	10 ug/L	ND
	Fluorene	10 ug/L	ND
	Hexachlorobenzene	10 ug/L	ND
	Hexachlorobutadiene	10 ug/L	ND
	Hexachlorocyclopentadiene	10 ug/L	ND
	Hexachloroethane	10 ug/L	ND
	Indeno(1,2,3-cd)pyrene	10 ug/L	ND
	Isophorone	10 ug/L	ND
	N-Nitroso-di-n-propylamine	10 ug/L	ND
	N-Nitrosodimethylamine	10 ug/L	ND
	N-Nitrosodiphenylamine	10 ug/L	ND
	Napthalene	10 ug/L	ND
	Nitrobenzene	10 ug/L	ND
	Pentachlorophenol	10 ug/L	ND
	Phenanthrene	10 ug/L	ND
	Phenol	10 ug/L	ND
	Pyrene	10 ug/L	ND

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

GW.7

294713

Volatiles - TCL

Date Completed: 8/4/97

Method	Analyte	Analytical Sensitivity	Sample Concentration
SW/46 8260/GC-MS	1,1,1,2-Tetrachloroethane	1 ug/L	ND
	1,1,1-Trichloroethane	1 ug/L	ND
	1,1,2,2-Tetrachloroethane	1 ug/L	ND
	1,1,2-Trichloroethane	1 ug/L	ND
	1,1-Dichloroethane	1 ug/L	ND
	1,1-Dichloroethene	1 ug/L	ND
	1,1-Dichloropropene	1 ug/L	ND
	1,2,3-Trichlorobenzene	1 ug/L	ND
	1,2,3-Trichloropropane	1 ug/L	ND
	1,2,4-Trichlorobenzene	1 ug/L	ND
	1,2,4-Trimethylbenzene	1 ug/L	ND
	1,2-Dibromo-3-Chloropropane	1 ug/L	ND
	1,2-Dibromoethane	1 ug/L	ND
	1,2-Dichlorobenzene	1 ug/L	ND
	1,2-Dichloroethane	1 ug/L	ND
	1,2-Dichloropropane	1 ug/L	ND
	1,3,5-Trimethylbenzene	1 ug/L	ND
	1,3-Dichlorobenzene	1 ug/L	ND
	1,3-Dichloropropene	1 ug/L	ND
	1,4-Dichlorobenzene	1 ug/L	ND
	2,2-Dichloropropane	1 ug/L	ND
	2-Chlorotoluene	1 ug/L	ND
	4-Chlorotoluene	1 ug/L	ND
	Benzene	1 ug/L	ND
	Bromobenzene	1 ug/L	ND
	Bromodichloromethane	1 ug/L	ND
	Bromoform	1 ug/L	ND
	Bromomethane	1 ug/L	ND
	Carbon tetrachloride	1 ug/L	ND
	Chlorobenzene	1 ug/L	ND
	Chlorodibromomethane	1 ug/L	ND
	Chloroethane	1 ug/L	ND
	Chloroform	1 ug/L	ND
Chloromethane	1 ug/L	ND	
cis-1,2-Dichloroethene	1 ug/L	18.5 ug/L	
cis-1,3-Dichloropropene	1 ug/L	ND	

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

**GV7**

**294713**

SW #6 8260 / GC-MS

Dibromomethane	1 ug/L	ND
Dichlorodifluoromethane	1 ug/L	ND
Ethylbenzene	1 ug/L	ND
Hexachlorobutadiene	1 ug/L	ND
Isopropylbenzene	1 ug/L	ND
M+P-Xylene	1 ug/L	ND
Methylene chloride	1 ug/L	4.20 ug/L
n-Butylbenzene	1 ug/L	ND
n-Propylbenzene	1 ug/L	ND
Napthalene	1 ug/L	1.40 ug/L
o-Xylene	1 ug/L	ND
p-Isopropyltoluene	1 ug/L	ND
sec-Butylbenzene	1 ug/L	ND
Styrene	1 ug/L	ND
tert-Butylbenzene	1 ug/L	ND
Tetrachloroethene	1 ug/L	ND
Toluene	1 ug/L	5.20 ug/L
trans-1,2-Dichloroethene	1 ug/L	ND
Trans-1,3-Dichloroporpene	1 ug/L	ND
Trichloroethene	1 ug/L	3.60 ug/L
Trichlorofluoromethane	1 ug/L	ND
Vinyl chloride	1 ug/L	ND

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

Trap blank                      294714

23 Metals - TCL

Date Completed: 9/18/97

Method	Analyte	Analytical Sensitivity	Sample Concentration	
SW 8466010 / ICP	Aluminum	0.005 mg/l	0.277 mg/l	
	Antimony	0.005 mg/l	<0.00500 mg/l	
	Arsenic	0.01 mg/l	<0.0100 mg/l	
	Barium	0.005 mg/l	<0.00500 mg/l	
	Beryllium	0.001 mg/l	<0.00100 mg/l	
	Cadmium	0.005 mg/l	<0.00500 mg/l	
	Calcium	0.01 mg/l	0.618 mg/l	
	Chromium	0.005 mg/l	<0.00500 mg/l	
	Cobalt	0.002 mg/l	<0.00200 mg/l	
	Copper	0.003 mg/l	0.00460 mg/l	
	Iron	0.02 mg/l	0.0394 mg/l	
	Lead	0.01 mg/l	<0.0100 mg/l	
	Magnesium	0.005 mg/l	0.439 mg/l	
	Manganese	0.001 mg/l	<0.00100 mg/l	
	Mercury	0.0002 mg/l	<0.000200 mg/l	
	SW 8467470 / AAS SW 8466010 / ICP	Nickel	0.001 mg/l	<0.00100 mg/l
		Potassium	0.001 mg/l	0.217 mg/l
Selenium		0.001 mg/l	<0.00100 mg/l	
Silver		0.005 mg/l	<0.00500 mg/l	
Sodium		0.005 mg/l	1.36 mg/l	
Thallium		0.005 mg/l	0.0138 mg/l	
Vanadium		0.005 mg/l	<0.00500 mg/l	
Zinc		0.005 mg/l	0.0339 mg/l	

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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## Sample Results Table

Triplank 294714

Vociles - TCL

Date Completed: 8/4/97

Method	Analyte	Analytical Sensitivity	Sample Concentration
SW # 8260/GC-MS	1,1,1,2-Tetrachloroethane	1 ug/L	ND
	1,1,1-Trichloroethane	1 ug/L	ND
	1,1,2,2-Tetrachloroethane	1 ug/L	ND
	1,1,2-Trichloroethane	1 ug/L	ND
	1,1-Dichloroethane	1 ug/L	ND
	1,1-Dichloroethene	1 ug/L	ND
	1,1-Dichloropropene	1 ug/L	ND
	1,2,3-Trichlorobenzene	1 ug/L	ND
	1,2,3-Trichloropropane	1 ug/L	ND
	1,2,4-Trichlorobenzene	1 ug/L	ND
	1,2,4-Trimethylbenzene	1 ug/L	ND
	1,2-Dibromo-3-Chloropropane	1 ug/L	ND
	1,2-Dibromoethane	1 ug/L	ND
	1,2-Dichlorobenzene	1 ug/L	ND
	1,2-Dichloroethane	1 ug/L	ND
	1,2-Dichloropropane	1 ug/L	ND
	1,3,5-Trimethylbenzene	1 ug/L	ND
	1,3-Dichlorobenzene	1 ug/L	ND
	1,3-Dichloropropene	1 ug/L	ND
	1,4-Dichlorobenzene	1 ug/L	ND
	2,2-Dichloropropane	1 ug/L	ND
	2-Chlorotoluene	1 ug/L	ND
	4-Chlorotoluene	1 ug/L	ND
	Benzene	1 ug/L	ND
	Bromobenzene	1 ug/L	ND
	Bromodichloromethane	1 ug/L	ND
	Bromoform	1 ug/L	ND
	Bromomethane	1 ug/L	ND
	Carbon tetrachloride	1 ug/L	ND
	Chlorobenzene	1 ug/L	ND
	Chlorodibromomethane	1 ug/L	ND
	Chloroethane	1 ug/L	ND
	Chloroform	1 ug/L	ND
Chloromethane	1 ug/L	ND	
cis-1,2-Dichloroethene	1 ug/L	ND	
cis-1,3-Dichloropropene	1 ug/L	ND	

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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Client: Niagara River World

## Sample Results Table

Trēpblank	294714		
SW 846 8260 / GC-MS		Dibromomethane	1 ug/L ND
		Dichlorodifluoromethane	1 ug/L ND
		Ethylbenzene	1 ug/L ND
		Hexachlorobutadiene	1 ug/L ND
		Isopropylbenzene	1 ug/L ND
		M+P-Xylene	1 ug/L ND
		Methylene chloride	1 ug/L 25.0 ug/L
		n-Butylbenzene	1 ug/L ND
		n-Propylbenzene	1 ug/L ND
		Napthalene	1 ug/L <1.00 ug/L
		o-Xylene	1 ug/L ND
		p-Isopropyltoluene	1 ug/L ND
		sec-Butylbenzene	1 ug/L ND
		Styrene	1 ug/L ND
		tert-Butylbenzene	1 ug/L ND
		Tetrachloroethene	1 ug/L ND
		Toluene	1 ug/L <1.00 ug/L
		trans-1,2-Dichloroethene	1 ug/L ND
		Trans-1,3-Dichloroporpene	1 ug/L ND
		Trichloroethene	1 ug/L ND
		Trichlorofluoromethane	1 ug/L ND
		Vinyl chloride	1 ug/L ND

Key: ND = Not Detected, \* = detected in lab blank, <xx.x = less than analytical sensitivity

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Analysis Request & Sample Chain of Custody

Company Name: NIAGARA RIVER WORLD  
 Address: 4000 RIVER ROAD  
TORONTO, ONT. M1S 0A5

Report Contact: JOHN SMITH  
 Phone Number: \_\_\_\_\_  
 FAX Number: \_\_\_\_\_

Turnaround: 2-4 days | 5-10 days  
 RUSH: 2-4 hours  
 CHECK AVAILABILITY OF TURNAROUND

Purchase Order Number: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project Number: NY702057

Sample Number	Description / Volume / Remarks	MATRIX (Check the boxes that apply)						Accept / Reject	Laboratory Sample #
		Building Materials	Soil	Air	Water	Swipe	Oil		
702057									
NW-1	(2) 200's, 1 LIT GLASS				X				
NW-2	4 LIT PLASTIC								
NW-4	PER SITE								
NW-5									
GW-7									
TRIP BROW	1 VOA				X				

Circle only one item in each section below. Use a separate form if you need to check more than one box per section.

SECTION A

Instrumentation/Method  
 AA PCM SEM XRD  
 PLM GC TEM ICP

SECTION B

Analyte  
 ASBESTOS LEAD SILICA  
 FIBERS UNKNOWN PCB's  
 OTHER TCL (METALS, UNSATURATED, SEMI-METALS)  
 TMI DTEXT

Comments / Special Instructions / Specific Method Requests: Results to Draw Reqd

Supplied by: David Reed Date & Time Sampled: 7/15/97

Relinquished by: \_\_\_\_\_ Date & Time Relinquished: \_\_\_\_\_

Received by: Donna S. [Signature] Received by Job: 715

Laboratory Job #: \_\_\_\_\_ Laboratory Analysis Code: \_\_\_\_\_ Due Date: \_\_\_\_\_ Process Date: \_\_\_\_\_ Processed By: \_\_\_\_\_