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PHASE 2
ENVIRONMENTAL SITE INVESTIGATION
FORMER NIAGARA MATERIALS SITE
NYSDEC SITE NUMBER 932073
LOCKPORT, NEW YORK

# PHASE 2 ENVIRONMENTAL SITE INVESTIGATION FORMER NIAGARA MATERIALS SITE NYSDEC SITE NUMBER 932073 LOCKPORT, NEW YORK

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DATE:

MAY 22, 1992

JUN 4 1992

EMVIRG

DATE:

June 2, 1992

TO:

NYS Dept. of Environmental Conservation

600 Delaware Avenue Buffalo, NY 14202-1073

ATTENTION

Mr. Abul Barkat

PROJECT:

Former Niagara Materials Site.

WE ARE TRANSMITTING THE FOLLOWING:

DESCRIPTION

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DATED

1 Copy of:

Phase 2 Environmental Site Investigation, Former Niagara Materials Site, NYSDEC Site Number 932073, Lockport, New

York.

REMARKS

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rogeology

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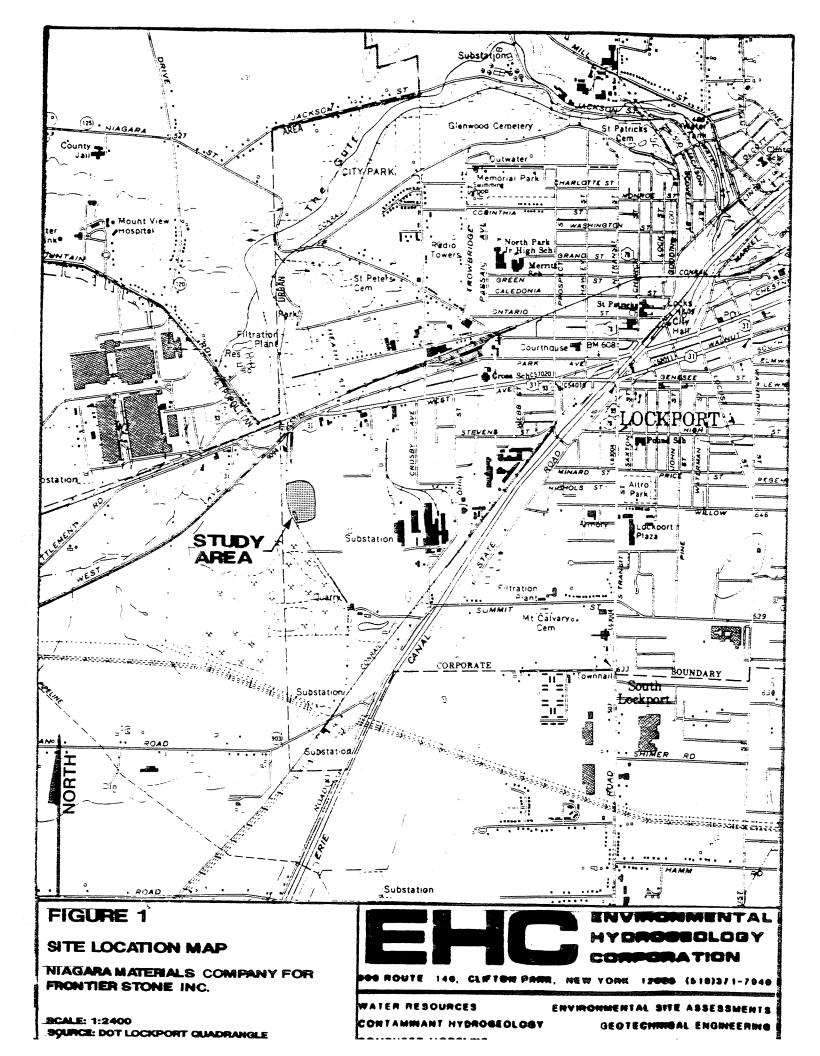
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#### 1.0 INTRODUCTION

Environmental Hydrogeology Corporation (EHC) has prepared this report to present findings from the completion of the July 18, 1991 work plan conducted at the former Niagara Materials site in Lockport, New York (See Figure 1). The work plan was approved by the New York State Department of Environmental Conservation (NYSDEC) and addresses the concerns raised during the April 25, 1991 scoping meeting and subsequent correspondence. The goal of this supplemental report combined with the initial October 10, 1989 report is to provide NYSDEC with sufficient information to perform a final evaluation and determination to delist the Niagara Materials Company (NMC) site from the inactive hazardous waste disposal list.

#### 2.0 BACKGROUND

The NMC site is listed on the NYSDEC Inactive Hazardous Waste Disposal List as Site No. 932073 and is owned by Frontier Stone, Inc. The site has been listed since the first listing in June 1980. Reports have been prepared regarding the environmental integrity of the site and surrounding area. The reports specifically regarding the site are listed in Table 1. This report supplements EHC's October 10, 1989 report entitled



## TABLE 1 Listing of Previous Site Reports

- . Site Report on Niagara Materials Company West Avenue, Lockport, Niagara County, New York. Report by New York State Department of Environmental Conservation, Region 9, 1981.
- . Preliminary Investigation of the Niagara Materials Site, City of Lockport, Niagara County, New York. Phase 1 Summary Report by Ecological Analysis, Inc., September, 1984.
- . Draft Letter Report Regarding Soil Sampling Analysis at the Niagara Materials Site, City of Lockport, Niagara County, New York. Letter Report by Engineering Science, June, 1987.
- . Environmental Site Assessment, Former Niagara Materials Site, NYSDEC Inactive Hazardous Waste Disposal Site No. 932073. Frontier Stone, Lockport, New York. Report Environmental Hydrogeology Corporation (EHC), October 10, 1989.

"Environmental Site Assessment, Former Niagara Materials Site, NYSDEC Inactive Hazardous Waste Disposal Site No. Frontier Stone, Lockport, New York. A comprehensive description of the site background is presented in the above referenced In general, the site under investigation housed the NMC and is in close proximity to the Niagara County Refuse Disposal District (NCRDD). As described in the October 10, 1989 report, the facility reputedly manufactured abrasive wheels approximately 2 years. Documentation from NMC regarding the types and quantities of waste generated is unavailable. However, been submitted to the NYSDEC identifying reports have hexachloride disiloxane, which degrades into hydrochloric acid and silicon - dioxide as part of the waste stream. Leachate from the NCRDD may have impacted the local groundwater system. A summary of past analytical data is presented in Appendix A as analyte versus analysis type and sample location.

#### 3.0 METHOD OF STUDY

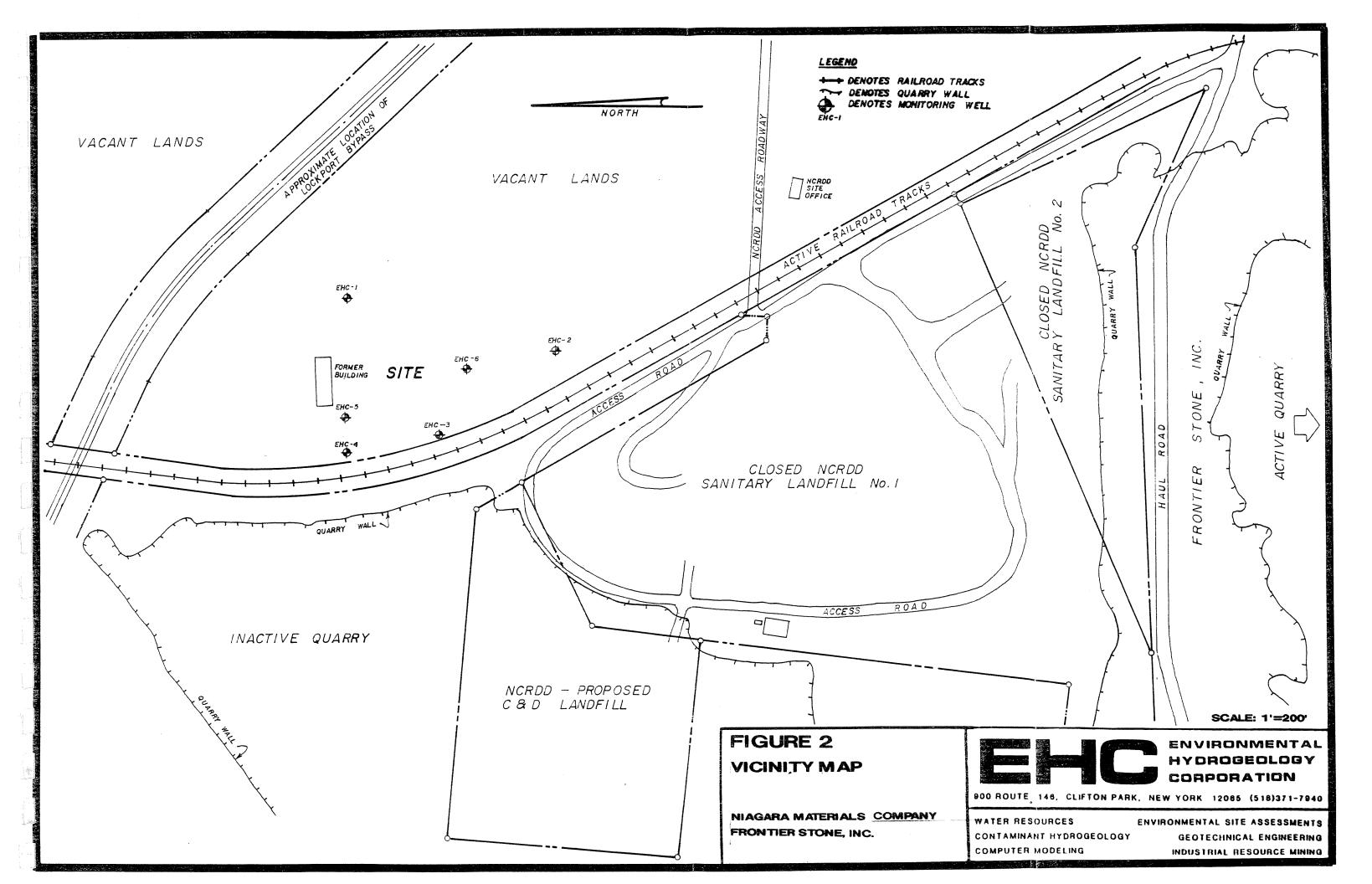
#### 3.1 Work Plan Introduction

The scope of work conducted was the result of the NYSDEC approved work plan dated July 18, 1991. Methodologies of each step comprising the work plan is explained in the following sections. The work plan, which appears in Appendix B, is outlined below:

- . Follow appropriate health and safety procedures.
- . Install to 35 foot deep PVC monitoring wells and perform hydraulic conductivity tests.
- . Sample groundwater from all monitoring wells and analyze for complete TCL parameters following CLP QA/QC procedures.
- . Sample and analyze soils from the three lagoon areas and a background location by TCLP methods following CLP QA/QC procedures.
- . Sample and analyze soils from the reputed former above ground storage tank areas and railroad siding area for TCL parameters following CLP and QA/QC procedures.

#### 3.2 <u>Site Conditions</u>

The site is located southwest of the newly constructed Lockport bypass in Lockport, Niagara County, New York. As seen on Figure 2, the site is bordered to the west by N/F Conrail Railroad easement. Across from the railroad lies a former quarry operated by Genstar, previous owner to Frontier Stone, Inc., in which a Construction and Demolition (C&D) landfill is presently under South of the site, also within the construction by NCRDD. former quarry, are two closed sanitary landfills which were operated by NCRDD. The NCRDD landfill is presently being evaluated by the consulting firm Goldberg, Zoino & Associates, Inc. (GZA) under NYSDEC supervision. Further south and southwest lies the active Frontier Stone, Inc. quarry operations.

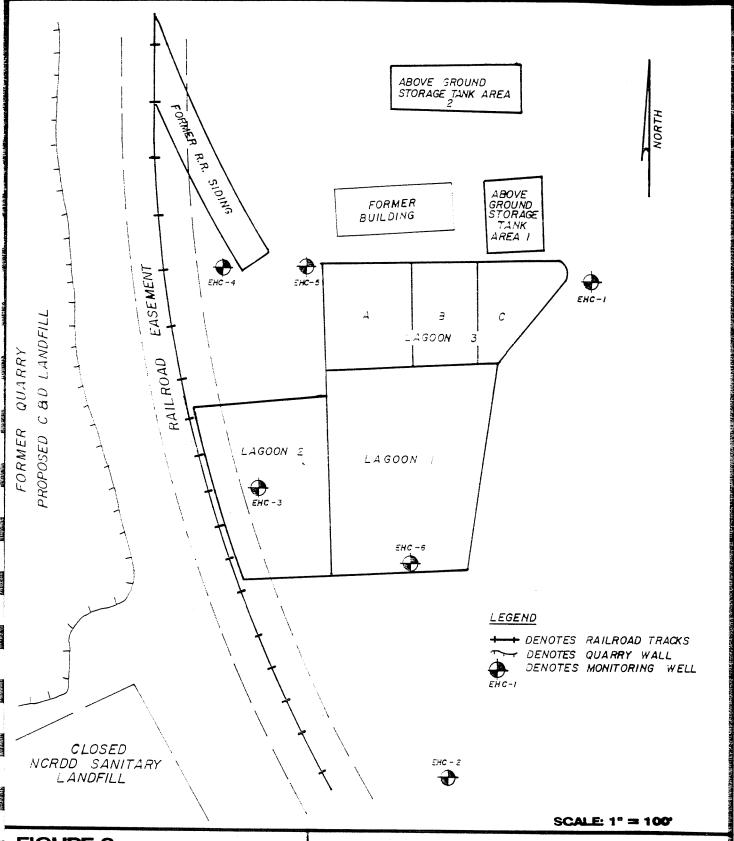


#### 3.3 Monitoring Well Installation

#### 3.3.1 <u>Drilling Program</u>

The drilling and installation of two monitoring wells (EHC-5 and EHC-6) was performed on November 12, 1991. Each monitoring well was installed at the locations displayed in the work plan approved by the NYSDEC. The locations were verbally verified with Mr. Steve Perrigo, NYSDEC, prior to drilling on November 5, 1991. As seen on Figure 3, EHC-5 is located ± 20 feet west of Lagoon 3, whereas EHC-6 is located in the southwest corner of Lagoon 2.

Air rotary techniques were used on both borings. The air supplied from the air compressor was reputedly free of petroleum contamination. Nothnagle Drilling of Scottsville, New York installed the borings with a truck mounted drill rig. Monitoring wells were drilled and installed as directed in the work scope under supervision by an EHC hydrogeologist. A summery of monitoring well construction appears in Table 2.



#### FIGURE 3

## MONITORING WELL LOCATION MAP

NIAGARA MATERIALS COMPANY FOR FRONTIER STONE INC.

## EHC

#### ENVIRONMENTAL HYDROGEOLOGY CORPORATION

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WATER RESOURCES
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ENVIRONMENTAL SITE ASSESSMENTS
GEOTECHNICAL ENGINEERING
INDUSTRIAL RESOURCE MINING

Monitoring Well Database Niagara Materials Site, Lockport, New York (Depths are Relative to Grade)

TABLE 2

Well No.	Formation Screened	Well Depth ft	Boring Depth ft	Screen Elevation	Measuring Point Elevation (AMSL)	Grade Elevation
EHC-5	Decew	35.0	35.5	567.76 to 557.76	595.52	592.76
EHC-6	Decew	35.0	36.6	567.17 to 557.17	594.23	592.17

#### 3.3.2 <u>Sampling and Classification</u>

Grab samples, collected at five foot intervals during drilling were logged using both the modified Burmister and Unified Soil Classification system for soils and American Stratigraphic Institute classification for bedrock (See Appendix C for key). The samples were retained in glass jars sealed with aluminum foil lined screw top lids for organic vapor field screening (See Section 3.4.1). In accordance with American Standard Testing Methods (ASTM), the soil sample jars were labeled with the following information: job designation, boring number, sample number, depth of sample, penetration record and length of recovery. Soil boring logs describing subsurface materials encountered in the test borings are provided in Appendix C.

#### 3.3.3 Well Installation

Installation of both monitoring wells was based on recommendations by the NYSDEC presented in the work plan and by verbal correspondence. It is EHC's understanding that the monitoring well depth of 35 feet was chosen to insure characterization of a possible shallow aquifer. The wells were to be installed at this depth even if water was not initially encountered during drilling to allow for slow groundwater

recharge. HNu PID values increased in both wells at 30 feet deep. The elevated values are within the screened portion of the well.

All wells were constructed of 2 inch flush joint, schedule 40 PVC riser pipe with a ten foot length of 0.010 inches slot screen set 25 to 35 feet below grade. With the well set at the appropriate depth, the sand pack was installed from the ground surface creating a sand pack extending to approximately one to two feet above the screen. The sand utilized for the monitoring wells consisted of clean #0 grade Morie silica sand. A bentonite pellet seal was installed above the sand pack to seal off the screened interval from remaining aquifers and to prevent any cross migration of possible contamination. The bentonite seal consisted of approximately 2 to 3 feet of bentonite pellets. pellets were activated with clean water to form the seal.

At both locations, the remainder of the annular space was filled with a cement/bentonite grout. The grout was introduced from the surface. A lockable protective steel casing was placed over each well to prevent unauthorized access and provide protection for the wells. Detailed monitoring well completion logs are provided in Appendix D.

#### 3.3.4 <u>Decontamination Procedures</u>

Prior to drilling the first boring, the equipment used in drilling and well installation was steam cleaned to remove possible contaminants encountered at previous sites. All equipment which came in contact with the soil was decontaminated between boring locations to prevent cross contamination. Decontamination with a high pressure steam cleaner occurred within a temporary decon pad located adjacent to the Frontier Stone maintenance garage. Uncontaminated water from Frontier Stone's water supply was used for decontamination procedures. Decon water was collected and stored in a 55 gallon New York State Department of Transportation (NYSDOT) approved drum.

#### 3.4 Field Screening

#### 3.4.1 Photoionization Screening Procedures

Ambient air as well as soil and bedrock samples were monitored for volatile organic hydrocarbons (VOC) by an HNu Model PI-101 photoionization device (PID) with a 10.2 ev and/or 11.7 ev lamp. The HNu PID is calibrated for direct reading in ppm of benzene. The calibration procedure, performed prior to its use, involves

the standardization of probe response using a calibration gas of a known organic concentration and adjacent known background conditions.

HNu PID screening with a 10.2 ev lamp was performed during drilling to monitor air quality for personnel safety and sample contamination with respect to depth. Continuous ambient air monitoring with an HNu PID provided data to base respiratory protection for VOC's on. Boring sample head spaces were monitored subsequent to a waiting period for sample equilibration. Sample contamination levels relative to depths are included in Table 3.

Measurements were obtained by removing the screw on lid and piercing the aluminum foil covering the top of each sample jar with the HNu PID probe. The head space was tested for the presence of VOC vapors. Results were recorded after five seconds (optimum response time indicated by manufacturer) of exposer.

Composite soil sample locations were monitored with an 11.7 ev lamp HNu PID. Each sample excavation site was evaluated immediately following sample extraction. The values obtained are presented in Appendix E.

TABLE 3

Observed Lower Explosive limit (LEL) and HNu PID Values

Obtained During Drilling of Monitoring Wells EHC-5 and EHC-6

(0.2 ppm Background)

	EHC	:-5		KHC-6			
	%LEL	10.2 ev 1	Nu Value (ppm)	%LEL	10.2 ev	HNu Value (ppm)	
Depth	Value Exhaust	Drill	Exhaust	Value Exhaust	Drill	Exhaust	
in feet	Drilling Air	Sample	Drilling Air	Drilling Air	Sample	Drilling Air	
0	0	0.2	0.2	0	N/A	0.2	
5	0	1.0	0.2	0	1.2	0.2	
10	0	0.4	0.2	0	1.6	0.2	
15	0	0.6	0.2	0	0.6	0.2	
20	0	0.6	0.2	0	1.2	0.2	
25	0	0.5	0.2	0	1.2	0.2	
30	0	3.0	0.2	0	2.0	0.2	
35	0	3.0	0.2	0	1.4	0.2	

HNu PID operates on the principle of photoionization. The Photoionization uses ultraviolet light to ionize many trace compounds (especially organics), and the HNu PID model PI-101 employs this principle to measure the concentration of trace gases. In the HNu PID, a chamber adjacent to the ultraviolet light source contains a pair of electrodes. When a positive potential is applied to one electrode, the field created drives any ions in the chamber to the collection electrode where the current is measured. The measured current is proportional to the concentration of organics sampled by the instrument's probe. For this process to be successful, the energy (electron voltage [eV]) of the ultraviolet lamp must be greater than the ionization potential of the sample. The useful range of the instrument is from 0.1 to 2000 ppm (for benzene or other VOC's with similar ionization potentials).

#### 3.4.2 Combustible Gas Screening Procedures

The Mine Safety Applicants Company (MSA) Model 2A combustible gas indicator (explosimeter) was used to test ambient air and drilling exhaust for concentration of flammable gasses and explosive vapors. The air was periodically monitored to ensure 5% of the lower explosive limit (LEL) was not exceeded. LEL readings are included in Table 3.

The explosimeter operated by drawing an atmosphere sample over a heated catalytic filament which forms part of a balanced electrical circuit. Combustibles are burned on the filament which raises its temperature and causes an increase in the filaments resistance proportional to the concentration of combustibles. The resulting unbalance in the electrical circuit is displayed on the meter as percent of the lower explosive limit.

#### 3.5 Water Level Measurements

Depth to groundwater measurements were collected on November 21, 1991 from each monitoring well on site. GZA gauged NCRDD wells on November 20, 1991. A Solinst water level meter Model 101 was used to measure depths to the nearest 0.01 foot at the NMC site monitoring wells. The raw depth data was converted to water level elevation relative to mean seal level (msl) and appears in Table 4. The collection of NCRDD site data was not supervised. GZA representatives reputedly acquired data in a similar manner. The NCRDD site data is presented in Table 5.

TABLE 4

NMC Groundwater Level Data Base
November 21, 1991

Monitoring Well	Depth to Water	Measuring Point <u>Elevation</u>	Potentiometric Surface <u>Elevation</u>
EHC-1	27.10	594.60	573.53
EHC-2	17.12	593.63	576.51
EHC-3	37.17	592.35	555.18
EHC-4	37.70	592.75	555.05
EHC-5	DRY	595.52	557.76
EHC-6	36.91	594.23	557.32

TABLE 5

NCRDD Monitoring Well & Groundwater Level Data Base
for 11/20/91 (in feet)

Moni- toring Well	<u>Date</u>	Time	Depth to Water from Measuring Point	Measuring Point Elevation	Potentiometric Surface Elevation	Total Depth	Grade Elevation	Geological Formation Screened
GZ 1D	11/20/91	10:00	23.87	594.2	570.33	54.2	591.50	Rochester Shale
GZ 2D	11/20/91	10:54	682	557.1	550.28	19.0	554.62	Rochester Shale
GZ 3D	11/20/91	13:00	45.07	619.4	574.33	80.0	618.12	Rochester Shale
GZ 4S	11/20/91	9:30	45.72	593.3	547.58	52.6	591.05	Undetermined
GZ 4D	11/20/91	9:20	38.25	593.9	555.65	100.0	591.05	Undetermined
GZ 5	11/20/91	10:20	7.40	558.2	550.80	27.0	N/A Filled	Undetermined
GZ 6	11/20/91	10:15	32.83	595.7	562.87	58.6	593.40	Undetermined
GZ 7S	11/20/91	14:55	5.23	559.5	554.27	21.6	557.50	Undetermined
GZ 7D	11/20/91	15:00	10.55	559.6	549.05	62.0	557.90	Undetermined
GZ 8S	11/20/91	12:40	30.27	592.0	561.73	54.0	590.33	Undetermined
GZ 8D	11/20/91	12:45	37.28	593.2	555.92	95.0	590.80	Rochester Shale
GZ 9S	11/20/91	13:30	63.88	598.7	534.82	52.1	596.65	Undetermined
GZ 10S	11/20/91	14:07	22.91	595.3	572.39	54.5	594.82	Undetermined
GZ 10D	11/20/91	14:05	41.81	597.7	555.89	103.0	595.60	Rochester Shale
GZ 11S	11/20/91	14:00	78.92	625.4	546.48	87.8	623.20	Undetermined
GZ 12	11/20/91	14:20	56.95	603.21	546.26	85.0	601.17	Lockport
GZ 13	11/20/91	14:30	<u>+</u> 18.20	N/A	N/A	20.0	N/A	Lockport
GZ 14	11/20/91	14:35	7.89	554.02	546.13	20.0	553.30	Lockport

NCRDD Monitoring Well & Groundwater Level Data Base for 11/20/91 (in feet) (Continued)

TABLE 5

			Depth to					
Moni-			Water from	Measuring	Potentiometric			Geological
toring			Measuring	Point	Surface	Total Depth	Grade	Formation
Well	Date	Time	<u>Point</u>	Elevation	Elevation	of Boring	Elevation	Screened
GZ 15	11/20/91	14:40	9.18	552.47	543.29	91.5	551.90	Lockport
GZ 16	11/20/91	14:45	32.88	577.27	544.39	51.5	575.80	Lockport
GZ 17	Grouted N	ovember	1991	N/A	N/A	N/A	N/A	N/A
07.10	** /00 /01		67. 20	*	× /=			
GZ 18	11/20/91	13:25	67.38	*	N/A	67.0	593.74	N/A
GZ 19	11/20/91	11:00	2.24	*	v. /a			
GZ 19	11/20/91	TT:00	9.24	^	n/a	21.5	*	n/a

<sup>\*</sup> Elevations have not been surveyed.

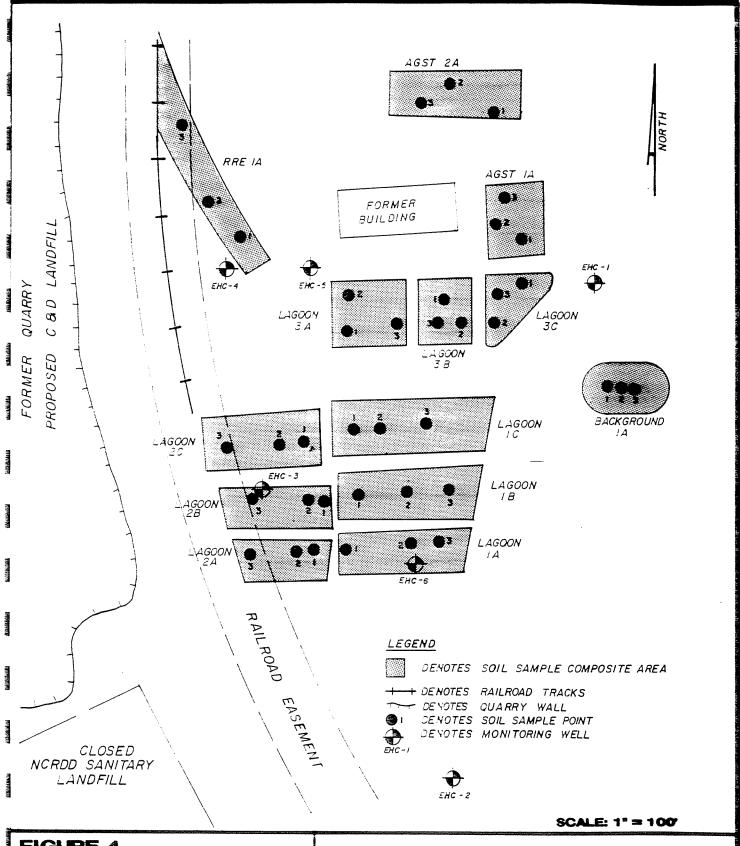
#### 3.6 <u>Surveying</u>

Surveying performed by Continental Placer, Inc. during December 1991 established measuring point elevations for the new monitoring wells and locations for both wells and soil sampling points. All survey points were referenced to a NYSDOT bench mark and previous points surveyed by Continental Placer, Inc. Survey data was compiled to provide a site map. Due to adverse weather conditions, three of the sampling points L3A1, L3B2 and L3C1 could not be located. Estimated location of these three points as well as the surveyed points were plotted on the soil sample point location map (Figure 4).

#### 3.7 Groundwater Sampling

Groundwater samples were collected from monitoring wells EHC-3 and EHC-4 on November 21, 1991 and from EHC-1 and EHC-2 on November 22, 1992 following well development activities. Duplicate split samples collected by EHC from monitoring well EHC-2 were held with proper chain-of-custody at the Frontier Stone Office for pick up by the NYSDEC on November 22, 1991.

EHC delivered the remaining samples in iced coolers to CTM Analytical Laboratory on November 22, 1991 following proper



#### FIGURE 4

#### SOIL SAMPLE POINT LOCATIONS

NIAGARA MATERIALS COMPANY FOR FRONTIER STONE INC.

### ENVIRONMENTAL CORPORATION

CLIFTON PARK, NEW YORK 12006 (518)371-7940

WATER RESOURCES CONTAMINANT HYDROGEOLOGY COMPUTER MODELING

ENVIRONMENTAL SITE ASSESSMENTS GEOTECHNICAL ENGINEERING INDUSTRIAL RESOURCE MINING chain-of-custody procedures. The laboratory is certified by both the NYSDOH (ELAP No. 10358) and NYSDEC ASP. A full target compound list (TCL) analysis was conducted on the samples with Environmental Protection Agency (EPA) contract laboratory protocol (CLP) deliverable. CLP deliverables document each analysis performed on the samples, calibration of equipment, personnel involved and confidence of results. The CLP level of QA/QC promotes a high level of confidence that the laboratory results are correct, possible errors are identified, and the supplied documentation can defend the results.

Using dedicated PVC bailers, the monitoring wells were developed by evacuating groundwater until a minimum of three well volumes were removed and steady state groundwater field chemistry was observed. Concomitant with development, temperature, specific conductance, pH and turbidity were measured in the field. Physical characteristics of color and odor were also noted. Field equipment used to monitor field quality are listed in Table 6. Field development logs are presented in Appendix F.

Groundwater samples were collected from the monitoring wells utilizing 5 foot dedicated PVC bottom filling check valve bailer. Bailers were cleaned prior to being used in the field and wrapped

TABLE 6
Groundwater Field Chemistry Instrumentation

Parameter Measured	Equipment and Model Used
Temperature	Yellow Springs, Inc. Model 33 STC
Specific Conductance	Yellow Springs, Inc. Model 33 STC
рН	Hanna Instruments, Champ pH Meter
Turbidity	LaMotte Turbidimeter Model 2208

in individual plastic envelopes. The bailers were lowered into the well using clean nylon monofilament braided ropes.

Wells were developed with minimal agitation of the water column and, in turn, minimize volatilization of organic compounds and oxidation of metals. Analytical results of groundwater samples are provided in Appendix F and discussed in Section 6.2.

#### 3.8 Soil Sampling

Composite soil samples for TCL and TCLP analysis were collected from the site on November 20 and 21, 1991, respectively. Each of the three sampling point locations used to create a composite sample was staked. The staked locations were surveyed and plotted by Continental Placer, Inc. Estimated locations of three stakes were made due to adverse weather conditions. The sample locations were based on directives received from NYSDEC.

A total of ten TCLP and three TCL composite samples were collected and analyzed. The sample vials were labeled with the date, time, job site, sample name, analysis required, preservatives and sampler. A complete chain-of-custody was kept

by EHC until delivery at CTM Analytical Laboratories on November 22, 1991. Sample analysis was conducted following the CLP level of QA/QC.

Three TCLP composite samples were collected from each of the three possible lagoon areas for a total of nine lagoon samples. The location of each sampling point combined to form a composite sample is displayed on Figure 4. Surficial contours indicate lagoon 1 and 2 are single lagoons whereas Lagoon 3 appears to be composed of three smaller lagoons. A composite sample was taken from each of the smaller lagoon 3 areas as seen in Figure 4. The background sample was taken 250 feet east of the north east corner of Lagoon 3.

Two of the three TCL composite samples were collected beneath the reported former above ground storage tanks. Several tank cradles were observed in Area 1 although no tank berms were seen. Soil was composited from three points among the tank cradles in Area 1. Possible berms and tank cradles were noted in Area 2. Two of the sample points were taken within the tank bermed area and one was taken from the berm itself. A composite sample was collected along the bed of the former railroad easement siding. The location of all sampling points is displayed in Figure 4.

The sampling procedure for both the TCL and TCLP samples was identical. Equal amounts of soil from each of the three sampling points was removed with a stainless steel scoop and combined in a stainless steel mixing bowl. Split samples were then placed into the pre-cleaned analytical sample vials. Sampling equipment was pre-cleaned and decontaminated with a alconox (detergent) wash, methanol rinse, distilled water/alconox wash and distilled water rinse.

A field log of each sampling point describing the soil type, depth of excavation and HNu PID (11.7 ev) reading is presented in Appendix E. In general, the soil type encountered was a brown coarse to fine sand with clayey silt and little gravel. The depth of excavation varied from 2 to 12 inches depending upon depth to bedrock. Elevated HNu PID readings were not observed.

A soil sample from above ground storage tank area two (AGSTA2) was collected by NYSDEC engineer, Mr. Abul Barkat, on November 21, 1991. The sample was collected with a clean stainless steel scoop from points sampled the previous day by EHC. Approximately equal amounts of soil was removed from each point and composited directly into the soil sampling vial. The analytical vials and sampling scoop were provided by EHC. Mr. Barkat delivered the samples to an analytical laboratory for analysis.

#### 4.0 **GEOLOGY**

#### 4.1 <u>Surficial Geology</u>

A detailed description of the site geology was presented in previous reports (EHC, 1989; NYSDEC, 1981). In brief, the site is covered by a thin layer of soil derived from glacial lodgement till. The main source material for this till was the lockport limestone. The soil belongs to the Farmington series and generally consists of coarse to fine sands with significant amounts of silt, clay and gravel.

#### 4.2 Bedrock Geology

The 1989 EHC Report describes in detail the local bedrock geology. In general, the site is underlaid by the Lockport Formation.

As discussed in the 1968 Basin Planning Report ENB-3 "Groundwater Resources of the Erie - Niagara Basin, New York" by A.M. LaSala, Jr., the Lockport Formation contains mainly limestone and dolostone. Both types of rock contain relatively water soluble minerals. The soluble minerals are calcite, Dolomite, Gypsum and Halite (common salt). Groundwater in this formation has a

relatively high dissolved solid content. Particles composed of the sulfide minerals of zinc, lead, and iron are disseminated through the Lockport Formation. Richard H. Johnson states in the 1964 USGS Bulletin GW-53 titled "Groundwater in the Niagara Falls Area, New York, with emphasis on the water bearing characteristics of the bedrock" that hydrogen sulfide or "sulfur water" is found in about one third of the wells in the Lockport. One theory for its prevalence states that sulfate dissolved from the bedrock and methane gas combine to form hydrogen sulfide.

During the installation of EHC-5 and EHC-6, both the lockport and Clinton bedrock groups were encountered. The two members of the Lockport Formation encountered during drilling were the Goat Island and the Gasport. The DeCew member of the underlying Clinton group was also encountered. Due to the method of drilling used only approximate elevations of lithologic changes were noted. Based on the sampling frequency and method the expected margin of error is ± 5 feet. The approximate depths and elevation for the top of each strat is listed below in Table 7. In general, the local bedrock layers appear to dip to the southwest. However, regionally LaSala (1986) states that the lockport bedding plane dips to the south at 35 to 40 feet per mile.

TABLE 7

Approximate Depth and Elevation of Individual Bedrock Strata Surface (in Feet)

<u>Strata</u>	EHC-1 Depth/Elevation	EHC-2 Depth/Elevation	EHC-3 Depth/Elevation	EHC-4 Depth/Elevation	EHC-5 Depth/Elevation	EHC-6 Depth/Elevation
Grade	593.5	591.54	589.33	590.33	592.76	592.17
Goat Island	2.0 / 591.5	2.0 / 589.54	0.0 / 589.33	1.0 / 589.33	0.0 / 592.76	0.4 / 591.77
Gasport	11.0 / 582.5	16.0 / 575.54	12.0 / 577.33	12.0 / 578.33	14.0 / 578.76	17.0 / 575.17
DeCew	24.5 / 569.0	28.0 / 563.54	21.0 / 568.33	23.0 / 567.33	22.0 / 570.76	23.0 / 569.17

Groundwater and fractures were not observed during the installation of EHC-5. The rock in EHC-5 drilled softer than EHC-6. Slight fractures were noted in EHC-6. The cuttings were dry in EHC-6 during drilling, but groundwater was noted entering the boring upon completion.

#### 5.0 **HYDROLOGY**

#### 5.1 Surficial Hydrology

The overall drainage on the site follows the primary surficial grade to the southwest. Flow from the site is blocked by the railroad bed which outlines the western boundary of the site causing a wet area during periods of heavy precipitation. The closest surficial body of water is an unnamed intermittent stream feeding the perennial stream named "The Gulf" which drains to the Erie Canal. "The Gulf" is located approximately  $\pm$  3,500 feet to the north. The Erie Canal lies  $\pm$  3,500 feet to the west. The Frontier Stone, Inc. siltation pond at a distance of  $\pm$  3,100 feet is the closest standing body of water to the site.

# 5.2 <u>Hydrogeology</u>

Multiple water bearing zones exist beneath the NMC site. described in the 1989 EHC report, groundwater was encountered in both the Lockport and Clinton Group. According to Johnson (1964), several major water bearing zones exist within the Lockport and Clinton Groups. In general, water bearing zones at this site are created by a combination of primary (bedding planes) and secondary (fractures, joints and solution channels) porosity zones. Aquifer characteristics are influenced by the extent of interconnection and/or isolation of the water bearing porosity zones. Assessment of the bedrock aquifer(s) is limited by the interconnection between the monitoring wells and the water bearing porosity zones. The prominent water bearing zones within the Lockport and Clinton Groups significant to the investigation are the Gasport - DeCew and DeCew - Rochester shale bedrock member bedding planes. Relatively little is known about the areal expanse or interconnection of the water bearing zones. The Lockport formation bedding planes dip to the south at 35 to 40 feet per mile (LaSala Jr. 1968) and may be in part responsible for observed semi-confined aquifer conditions observed at the site.

Two additional wells EHC-5 and EHC-6 were installed to assess the possibility of shallow water producing zones in the western portion of the site. Shallow water producing zones were not observed during the installation of monitoring wells EHC-3 and EHC-4. Several work stoppages occurred during installation to observe groundwater infiltration. EHC-5 did not intersect water producing fractures. The well was completed dry to allow low yielding fractures time to recharge the well if present. Although several small fractures were noted during the drilling of EHC-6, groundwater was not observed until the boring was completed when minor amounts of groundwater were noted. Both wells were completed at a depth of thirty five feet as directed by the approved NYSDEC work plan.

The cause for the lack of interconnection between a shallow bedrock water bearing zone and boring EHC-3, EHC-4 and well EHC-5 is unknown. Probable causes for the lack of shallow water in the borings are that the shallow water bearing zone is either non-existent, deeper, or not uniformly extensive in the western portion of the site. Johnson, 1968, states that many of the individual bedding joints tend to "pinch out" laterally and be replaced by adjacent joints in the same zone. Blasting effects from the quarry's operation west of the site may have altered the shallow bedrock adjacent to the quarry wall.

Based on the insufficient quantities of groundwater in the shallow zone, falling (slug) or rising (bail) head tests could not be conducted on monitoring wells EHC-5 and EHC-6. Determination of hydraulic conductivities could not be calculated due to the lack of available test data. The decision not to conduct the tests was discussed with and agreed to by NYSDEC representative Mr. Glenn May.

A potentiometric surface is defined as the level groundwater will rise in a well. In unconfined conditions the water table elevation is identical to the potentiometric surface elevation. at the site is The groundwater semi-confined. Under semi-confined conditions groundwater from water bearing zones will rise in a well equal to the confining pressure. Potentiometric surface elevations were calculated by subtracting depth to groundwater data from the surveyed measuring point elevation at each monitoring well. The resulting elevations are listed on Table 4. Elevations are similar to previously collected data (See EHC 1989). The potentiometric surface elevations in wells EHC-1 and EHC-2 are approximately 10 to 20 feet higher than in EHC-3, EHC-4 and EHC-6. Well EHC-5 was dry. The water bearing fractures at the location of EHC-5 are probably the well base of 557.76 feet. Due to semi-confined below

conditions, the potentiometric surface can rise above the existing well base. The variation in head can reflect either downward migration of groundwater, westward groundwater flow or a combination of both. As seen in Table 5 GZA cluster wells show both upward and downward migration of water. As a result of documented vertical flows and the different screen elevations between wells EHC-1, EHC-2 and EHC-6 to wells EHC-3 and EHC-4, the potentiometric surface elevations are more indicative of vertical migration than flow directions.

Data obtained from the NYSDEC regarding the NCRDD site suggest groundwater mounding and groundwater flow from the landfill areas. The mounding effects are most apparent within monitoring well screening the Lockport Formation. Although the landfills have been closed and covered, groundwater mounding is expected to remain for several years.

Regional groundwater flow direction and gradient has not been documented, however, the NYSDEC indicates probable flow toward the west (Erie Canal). Local groundwater flow has been altered by the landfill and quarry allowing local flow path different from the regional flow.

Off site migration of landfill leachate is probable. NCRDD reports include plumes of chlorides migrating northeast and southwest of the landfill. The northeast plume has extended from the landfill toward the NMC site. Other suspected landfill leachates are iron, chloride, sulfates, phenols, lead and manganese. The NYSDEC stated background groundwater conditions are not documented enough to determine what percentage of the analyzed compounds should be attributed to natural versus leachate sources.

#### 6.0 ANALYTICAL RESULTS

## 6.1 Introduction

The analytical results are discussed in two sections based upon sample medium. TCL groundwater sample results are discussed in Section 6.2 where as TCL and TCLP soil results are addressed in Section 6.3.

Analytical results portray actual site conditions assuming the error is accountable or negligible and samples are representative. Precautions to insure accuracy of the analytical analysis and the samples were taken. CTM Analytical Laboratories performed the EPA CLP methodology for QA/QC to reduce and/or document possible laboratory error. Samples were collected as

outlined in the work plan. Methodologies to minimize sample contamination and increase site representation were chosen.

Three major possible sources of compounds identified in the samples are natural, disposal and error. If error in sampling, analysis and/or reporting was eliminated, the sample results would depict actual sample concentration. Samples must be collected carefully so that actual site conditions are represented.

Site conditions are influenced by natural and human induced factors. Natural conditions are the compounds concentrations which occur naturally and are considered indigenous to the site. Natural conditions can range greatly between geographic areas. In certain locations natural analyte concentrations have exceeded state and/or federal regulatory levels.

Disposal contamination can result from direct dumping or indirectly by on-site migration from contaminated groundwater or air borne pollution.

The analytical results represent the site's conditions assuming all sources of error are identified and corrected. Due to the site's complexity, exact distribution of analyzed compound

concentrations between natural, direct and indirect sources are not feasible. Possible sources of compounds detected in each of the samples will be discussed.

#### 6.2 <u>Groundwater Quality Results</u>

Groundwater samples were collected from monitoring well EHC-3 and EHC-4 on November 21, 1991 and from EHC-1 and EHC-2 on November 22, 1991. Both field and laboratory analysis were conducted on the groundwater. Field test included pH, temperature, specific conductance and turbidity. Samples were analyzed for a full TCL scan at CTM Analytical Laboratories. Field testing and results will be present before discussing the TCL analysis.

Groundwater samples were not collected from either well EHC-5 or EHC-6. Monitoring well EHC-5 was dry and could not be sampled. Monitoring well EHC-6 contained approximately 0.52' of groundwater. Samples taken from EHC-6 would not be representative of the existing groundwater due to the inability to properly develop the well, the high turbidity, and the excessive agitation of groundwater during sampling. The decision not to sample wells EHC-5 and EHC-6 was discussed with and agreed to by NYSDEC representatives Mr. Glenn May and Mr. Abul Barkat.

A summary of field chemistry collected prior to sampling is presented in Table 8. Complete field chemistry results are included on the development forms in Appendix F.

Field quality results were within normal ranges with the exception specific conductance. The elevated conductance values appear to a result of landfill leachate influence (chlorides), road salts from the newly constructed bypass and/or error. The Lockport Formation has relatively high levels of halite (Johnson 1964, LaSale, Jr. 1968). The dissolving of halite (common salt) from the Lockport Formation may also cause high levels of sodium and chloride contributing to the high specific conductance values. The field specific conductance (sc) value obtained at EHC-1, EHC-2 and EHC-4 appear to be erroneously high (See Table 9). The sc value should reflect the laboratory sodium concentration result. The 1991 sodium values are comparable to the 1989 values with minor increases or in concentrations. Field values should also exhibit similar concentration variations. EHC-3 sc and sodium results decreased from 1989 to 1991. The sc results for EHC-1, EHC-2 and EHC-4 appear to be ten times too high. If those values were reduced by a factor of ten, the resulting proposed value would correspond to field values with slight adjustments as observed in the sodium Interpretational error on the field instrument scale may have resulted in erroneously high recorded values.

TABLE 8

Field Groundwater Chemistry Results
November 21 to 22, 1991

Parameter		Monito	ring Well	Analyzed		
	EHC-1	BHC-2	EHC-3	<u>EHC-4</u>	BHC-5	<u>EHC-6</u>
pH (su)	6.5	7.0	7.0	7.0	n/a	n/a
Temperature (oC)	11.0	10.9	10.5	9.4	N/A	n/a
Specific Conductance (umohs/cm)	*1,500.0	*5,100.0	580.0	*7,990.0	n/a	n/a
Turbidity (ntu)	3.0	40.0	87.0	17.0	N/A	N/A

<sup>\*</sup> Possible Field Error.

TABLE 9

Groundwater Results for Specific Conductance (sc) and Sodium (Na)

Well Sampled	1989 sc Results (umoh/cm)	1991 sc Results (umoh/cm)	Proposed 1991 sc Results (umoh/cm)	1989 Na Results (ppm)	1991 Na Results (ppm)
EHC-1	110	1500	150	88	118
EHC-2	600	5100	510	1600	1464
EHC-3	710	580	580	1800	1600
EHC-4	1000	7990	799	2500	2200

The EHC-3 turbidity value of 87 ntu was above the NYSDEC recommended value of 50 ntu due to the apparent excessive biological growth as opposed to sediments in the groundwater.

Groundwater samples sent to the laboratory were analyzed for a full TCL scan following CLP QA/AC protocol. The analytical results excluding the CLP deliverable are in Appendix G. The results including the QA/QC documentation are in a 12 volume addendum as part of this report.

A tabulated summary of the results, which includes all compounds detected in the analysis is presented in Table 10. Also presented in Table 10 are the NYS Part 5 drinking water and Part 703.5 water quality regulations for groundwater. Johnson, 1968, notes high levels of iron, manganese, sodium and sulfides are typically found in the groundwaters of the Lockport. Of the compounds regulated by Part 5 and Part 703.5, only manganese, acetone, iron, sodium and possibly xlyene exceeded the standards. Magnesium is not regulated by Part 5, however, it exceeded the guideline value set by Part 703.5.

Acetone detection may have resulted from laboratory error.

Acetone concentrations of 12 and 11 ppb were detected in samples

EHC-3 and EHC-4, respectively. Acetone was detected below the

quantitative limits in samples EHC-1 and EHC-2. The blank had the highest reported acetone concentration of 13 ppb. The laboratory indicated acetone values in the EPA Methods 8240 Volatile Blank are attributed to laboratory artifacts. It is probable that the acetone detected in the samples should also be attributed to laboratory artifacts.

Groundwater standards of 5 ppb exist for individual xylene isomers. Analytical results indicate 5.5 ppb total xylene in EHC-3 and ND levels in EHC-1, EHC-2 and EHC-4. The concentration of xylenes were not quantitatively determined for each isomer. The individual xylene concentration can be within regulations even with a total xylene concentration of 5.5 ppb.

At the present time assuming the acetone is a laboratory artifact the observed concentration of these compounds do not appear to pose a health risk. The minimal exposure roots decrease the potential impact of possible groundwater contaminates. Community water system services located in the area eliminate the need of groundwater wells for portable water production water wells have not been recorded in the vicinity of the site (ES 1987, EA 1989). The closest reported drinking water supply wells are at a 2 mile radius in the southeast, northwest and west directions (Johnson

TABLE 10
Summary of TCL Quality Results for Groundwater
Results in mcg/l (ppb)

		KE	ssurts in mo	:d\T (bbp)				NYSDEC
						NYSDEC	NYSDEC	TCLP
						Part 5	Part	Hazardous
	EHC-1	EHC-2	EHC-3	EHC-4	Blank	Drinking Water	703.5 GA	Waste
Manganese	1,740	76.5	200	40.0				Ì
Bromomethane	1,740 D	76.5 D		49.0	ND	300	300	N/A
Methylene Chloride	D		D	ND	D		5	N/A
Trans-1,2-Dichloroethene	_	D	D -	D	D		5	N/A
•	D	ND	D -	ND	D		5	n/a
1,2-Dichloropropane	D	ND	D	ND	ND		5	N/A
Bromodichlormethane	ND	ND	D	ND	ND		50	N/A
Cis-1,3-Dichloropropane	D	ND	D	ND	ND		5	N/A
Toluene	ND	ND	D	ND	ND		5	N/A
Chlorobenzene	D	ND	D	ND	ND		5	100,000
Iron	1,020	830	4,400	1,380	N/A	300	300	N/A
Ethylbenzene	ND	ND	D	ND	ND		5	N/A
Styrene	D	ND	D	ND	ND		5	N/A
Acetone	D	D	12	11	13		5	N/A
Xylene (total)	ND	ND	5.5	ND	ND		5 (individual)	N/A
Sodium	118,000	1,460,000	1,600,000	2,200,000	N/A	27,000	20,000	N/A
Phenol	D	D	D	ND	N/A		1	N/A
2-Chlorophenol	ND	D	D	ND	N/A		1	N/A
2-Nitrophenol	ND	D	D	ND	N/A		1	N/A
2,4-Dichlorophenol	ND	D	D	ND	N/A		1	N/A
Endosulfan Sulfate	0.052	0.03	0.09	0.03	N/A		n/a	N/A
Methoxychlor	0.029	0.06	ND	0.05	N/A		35	10,000
Aluminum	306	405	3,630	930	N/A		n/a	N/A
Clacium	153,000	367,000	159,000	166,000	N/A		n/a	N/A
Magnesium	58,200	129,000	74,200	106,000	N/A		35,000	N/A
Potassium	4,590	42,500	36,700	42,600	N/A		N/A	N/A
Vandaium	20	25.1	24.1	28.1	n/a		N/A	N/A
Zinc	216	ND	45.8	45.8	N/A	5,000	300	N/A
Lead	4.5	ND	9.4	ND	N/A	50	25	N/A
рĦ	7.0	7.5	7.7	7.7	N/A	6.5 - 8.5	25 N/A	1
=			• • •		/ A	0.3 - 0.5	A/A	5,000

D= Concentration above minimum detection limit and below quantitative limit.

ND= Concentration below minimum detection limit.

N/A= Not Available.

TABLE 10
Summary of TCL Quality Results for Groundwater
Results in mcg/l (ppb)

			- Re	sults in mo	g/l (ppb)				NYSDEC
							NYSDEC	NYSDEC	TCLP
							Part 5	Part	Hazardous
		EHC-1	EHC-2	EHC-3	EHC-4	Blank	Drinking Water	703.5 GA	Waste
Manganese		1,740	76.5	200	49.0	ND	300	300	N/A
Bromomethane	<b>3</b>	D	D	D	ND	D		5	N/A
Methylene Cl	nloride	D	D	D	D	D		5	n/a
Trans-1,2-D	ichloroethene	D	ND	D	ND	D		5	n/a
1,2-Dichlore	propane	D	ND	D	ND	ND		5	N/A
Bromodichlo	rmethane	ND	ND	D	ND	ND		50	N/A
Cis-1,3-Dick	nloropropane	D	ND	D	ND	ND		5	N/A
Toluene		ND	ND	D	ND	ND		5	n/A
Chlorobenze	ne .	D	ND	D	ND	ND		5	100,000
Iron		1,020	830	4,400	1,380	N/A	300	300	n/a
Ethylbenzene	3	ND	ND	D	ND	ND		5	n/a
Styrene		D	ND	D	ND	ND		5	N/A
Acetone		D	D	12	11	13		5	n/a
Xylene (tota	1)	ND	ND	5.5	ND	ND		(individual)	N/A
Sodium		118,000	1,460,000	1,600,000	2,200,000	N/A	27,000	20,000	N/A
Phenol		D	D	D	ND	N/A		1	n/a
2-Chloropher	nol	ND	D	D	ND	N/A		1	n/a
2-Nitropheno	1	ND	D	D	ND	N/A		1	N/A
2,4-Dichloro	phenol	ND	D	D	ND	N/A		1	N/A
Endosulfan S	ulfate	0.052	0.03	0.09	0.03	N/A		n/A	N/A
Methoxychlor	<del>:</del>	0.029	0.06	ND	0.05	N/A		35	10,000
Aluminum		306	405	3,630	930	N/A		N/A	N/A
Clacium		153,000	367,000	159,000	166,000	N/A		N/A	n/a
Magnesium		58,200	129,000	74,200	106,000	N/A		35,000	n/a
Potassium		4,590	42,500	36,700	42,600	N/A		N/A	N/A
Vandaium		20	25.1	24.1	28.1	n/a		n/a	n/a
Zinc		216	ND	45.8	45.8	N/A	5,000	300	N/A
Lead		4.5	ND	9.4	ND	N/A	50	25	N/A
рн		7.0	7.5	7.7	7.7	N/A	6.5 - 8.5	n/a	5,000

D= Concentration above minimum detection limit and below quntitive/limit.

N/A= Not Available.

QUANTITATIVE

ND= Concentration below minimum detection limit.

1964). Groundwater seeps were not observed on the nearby Quarry during the December 1991 visit. Seeps were presented in a previous report as possible groundwater contact sites.

#### 6.3 Soil Quality Results

## 6.3.1 Lagoon and Background Soil (TCLP)

Soil from the lagoon floor and background locations were sampled on November 21, 1991 as described in Section 3.8. Both field and laboratory analysis were conducted on the soil.

Field inspection of the soil noted no unusual odors or colors in the soils. Stressed vegetation was noted in areas of thin soil cover as would be expected. Elevated readings were not noted on the HNu PID (11.7 ev lamp) during sampling (See Appendix E).

Composite soil samples from the lagoon and background area were analyzed by TCLP analysis following CPL QA/QC protocol. The complete analytical results are in Appendix H. The results and CPL deliverable are presented in a separate 12 volume set.

As seen in the summary of compounds detected in Table 11, the results were below both NYS Part 5 drinking water and hazardous waste regulatory levels.

TABLE 11
Summary of TCLP Quality Results for Lagoon and Background Soil Samples
Results in mcg/l (ppb)

	<u>La</u>	goon	1	<u>La</u>	goon	<u>2</u>	La	goon :	<u>3</u>		NYSDOH Part 5 Drinking	TCLP Regulatory
	<u>A</u>	B	<u>c</u>	A	<u>B</u>	<u>C</u>	A	В	<u>c</u>	Background	Water	Hazardous Waste
Barium	0.35	0.38	0.43	0.32	0.28	0.31	0.46	0.25	0.19	0.24	1000.0	100,000
Cadmium	0.017	ND	0.012	0.005	ND	0.01	0.014	0.006	0.007	ND	10.0	1,000
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	0.012	ND	50.0	5,000
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	0.013	0.21	10.0	1,000

ND= Concentrations Below Minimum Detection Limit

Based upon these results, the soils within the lagoon are below NYSDEC Hazardous Waste Regulatory Levels.

# 6.3.2 Above Ground Storage Tanks (AGST) and Railroad Bed Soil (TCL)

Soil samples were collected from the former railroad siding bed (RREA1) and two areas which reputedly contained above ground storage tanks (AGSTA1 and AGSTA2). Field screening was conducted during sample collection on November 21, 1991 with an 11.7 ev HNu PID. Background (0 ppm) PID readings and apparent normal vegetation growth were observed during the soil sampling. The sampling methods and field observations are discussed in Section 3.8, Soil Sampling.

A composite soil sample, comprised of three sampling points, was taken from each area and analyzed for the TCL following CPL QA/QC protocol. The analytical results without deliverables are in Appendix I. The complete results (including deliverables) are presented in a separate 12 volume set. A summary of results for analytes detected are listed in Tables 12a and 12b. Table 12a depicts the inorganic and pH results whereas Table 12b presents the volatiles, semi-volatiles, pesticides and PCBS analytical results.

TABLE 12a

Summary of Inorganic and pH Target Compound List (TCL)

Analytical Results for Soils in mg/kg (ppm)

						NJDEP
	NCHD					Unregulated
	mean/high	RRE 1A	AGST 1A	AGST 2A	DEC 81	Waste Limit
Aluminum	n/a	15,700	16,300	18,200	N/A	-
Antimony	n/a	ND	ND	ND	<10	10
Arsenic	11.3/37	10	11.4	10.9	6.4	20
Barium	N/A	109	83.4	80.8	N/A	400
Beryllium	N/A	ND	ND	ND	<0.5	1
Cadmium	4.5/10	2.2	2.0	ND	4.7	3
Clacium	N/A	35,400	42,100	12,800	N/A	N/A
Chromium	37.8/124	24	40.6	113	70.0	100
Cobalt	N/A	ND	11	14.4	N/A	n/a
Copper	59.75/203	26.4	75.6	81	86.0	170
Iron	N/A	28,200	47,800	43,600	N/A	N/A
Lead	103.1/428	104	202	194	810.0	250
Mercury	0.55/2	ND	ND	ND	<0.3	1
Magnesium	n/a	31,400	20.80	7,560	N/A	N/A
Manganese	n/a	1,180	2,880	1,860	N/A	N/A
Potassium	N/A	1,890	1,990	2,150	N/A	n/a
Selenium	N/A	ND	ND	ND	<0.4	4
Silver	N/A	ND	ND	ND	<0.5	5
Thallium	N/A	ND	ND	ND	<5.0	1
Vanadium	N/A	33.8	50	70.0	N/A	100
Zinc	238/856	928	908	498	1600.0	350
pH (su)	N/A	7.9	7.7	7.6	7.6	N/A
Nickel	41.4/132	20.4	40.4	48.6	220.0	100
Sodium	N/A	ND	ND	ND	N/A	n/a
Cyanide	N/A	ND	ND	ND	N/A	12

D= Concentration above minimum detection limit and below quantitative limit.

ND= Concentration below minimum detection limit.

N/A= Not Available.

TABLE 12b

Summary of Volatile, Semi-Volatile, Pesticides and PCB Target Compound List (TCL)

Analytical Results for Soils in ug/kg (ppb)

	Below NJDEP										
	"Regulatory	NYSDEC	EH	C 1991 NMC			E	3 1984	Вурая	8	
	concern*	1981					<del></del>			_	
TCL Analytes	Limits	NMC	RRE 1A	AGST 1A	AGST 2A	<u>18</u>	<u>1D</u>	28	<u>2D</u>	<u>38</u>	<u>3D</u>
Volatile Compounds											
Methylene Chloride	n/A	n/A	ND	D	ND	ND	ND	ND	ND	ND	ND
Acetone	N/A	n/a	25	ND	ND	ND	ND	ND	ND	ND	ND
		4-		_							
Total	1,000	n/a	25	D	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Compounds											
Bomi Volletite Compounds											
*. Naphthalene	N/A	1,200	D	ND	D	ND	ND	ND	ND	ND	ND
*. Acenaphthene	N/A	1,000	D	ND	ND	ND	ND	ND	ND	ND	ND
*. Fluorene	N/A	150	D	ND	ND	ND	ND	ND	ND	ND	ND
*. Hexachlorobenzene	N/A	N/A	ND	D	ND	ND	ND	ND	ND	ND	ND
*. Phenanthrene	N/A	650	D	ND	ND	70	ND	ND	ND	ND	ND
*. Fluoranthene	N/A	880	1,500	ND	ND	100	ND	60	ND	3	ND
*. Pyrene	N/A	710	4,000	ND	ND	90	ND	ND	ND	2	ND
*. Acenaphthylene	N/A	200	ND	ND	ND	ND	ND	ND	ND	ND	ND
*. Benzo (a) Anthracene	N/A	180	ND	ND	ND	ND	ND	ND	ND	ND	ND
*. Anthracene	N/A	30	ם	ND	ND	100*	ND	ND	ND	ND	ND
*. Benzo (a) Pyene	N/A	130	ND	ND	ND	ND	ND	ND	ND	ND	ND
*. Benzo (b) Fluoranthene	N/A	270	ND	ND	ND	*	ND	ND	ND	ND	ND
*. Benzo (shi) Perylene	N/A	520	ND	ND	ND	70	ND	ND	ND	ND	ND
*. Benzo (k) Fluoranthene	N/A	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
*. Crysene	N/A	300	ND	ND	ND	ND	ND	ND	ND	ND	ND
*. Dibenzo (a,h) Anthrancene		200	ND	ND	ND	ND	ND	ND	ND	ND	ND
*. Indeno (1,2,3-cd) Pyrene		84	ND	ND	ND	ND	ND	ND	ND	ND	ND
. Bis(2-Ethylhexyl) Phthala		N/A	ND	ND	ND	ND	1700	ND	ND	ND	ND
. Methyl Naphtalene	N/A	N/A	D	ND	D	ND	ND	ND	ND	ND	ND
. Dibenzofuran	N/A	N/A	D	ND	ND	ND	ND	ND	ND	ND	ND
. Benzoic Acid o Phenolics	n/a n/a	N/A	ND	ND	ND	ND	ND	ND	80	9	ND
O FREHOLICS	N/A	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total TCL Semi-Volitale		8,404	5,500	D	D	430	1700	60	80	14	ND
Total Priority Pollutant											
Base Neutrals	10,000	N/A	5,500	ם	D						
Total TCL Polynuclear											
Aromatic Hydrocarbons (PNA)											
Polycyclic Aromatic											
Hydrocarbons (PAH)	10,000	6,604	5,500	ND	D	430	1700	60	ND	5	ND

TABLE 12b
Summary of Volatile, Semi-Volatile, Pesticides and PCB Target Compound List (TCL)
Analytical Results for Soils in ug/kg (ppb)

(Continued)

	Below NJDEP										
	"Regulatory	NYSDEC	<u>ki</u>	IC 1991 NMC			E	8 1984	Bypası	3	
	concern"	1981								-	
TCL Analytes	<u>Limits</u>	NMC	RRE 1A	AGST 1A	AGST 2A	<u>18</u>	<u>1D</u>	<u>28</u>	<u>2D</u>	<u>38</u>	<u>3D</u>
Pesticides											
Delta - BHC	n/A	n/a	ND	4.0	ND						
Dieldrin	n/a	N/A	ND	13.0	5.2						
4,4DDE	N/A	N/A	ND	6.9	13.0						
4,4-DDD	N/A	N/A	ND	8.6	11.0						
4,4-DDT	1,000	N/A	5.4	33.0	44.0						
Methoxychlor	N/A	N/A	40	12.0	18.0						
Endrin Ketone	N/A	N/A	ND	ND	1.3						
Chlordane	1,000	N/A	ND	ND	ND						
Total	N/A	**	45.4	77.5	92.5						
PCB	1,000	N/A	ND	ND	ND	NA	NA	NA	NA	NA	

<sup>\*\*=</sup> Site Dependent

<sup>\*=</sup> Polynuclear Aromatic Hydrocarbon (PNA)
Polynuclear Aromatic Hydrocarbon (PAH)

o= Acid Extractable (AE)

<sup>.=</sup> Base Neutral (BN)

D= Concentration above minimum detection limit and below quantitative limit.

ND= Concentration below minimum detection limit.

N/A= Not Available.

Both NYSDEC and NJDEP have three soil categories based upon contaminant levels present in the soils. The three categories are:

- hazardous waste (NYSDEC & NJDEP)
- non-hazardous industrial waste (NYSDEC) or non-hazardous regulated waste (NJDEP)
- . unregulated waste (NYSDEC) & below regulatory concern (NJDEP)

NYSDEC Regulations do not exist for TCL (total matrix) soil quality. Total matrix soil results were compared to Niagara County Department of Health (NCDH) urban soil guidelines, New Jersey Department of Environmental Protection (NJDEP) Regulations, previous site data and other background information.

As seen in Table 12a and 12b, the soil contains several inorganic and organic compounds. The compounds can be derived from a combination of the following three sources: natural, on site migration and direct disposal. The composition of soils naturally varies between soil types and specific locations within the soil types. The soil on site is derived from glacial till created primarily from the Lockport Formation. The chemical composition of soil reflects the mineral composition of the parent material. Soils derived from the Lockport can be expected to contain elevated levels of sulfides, zinc, lead and iron. The soluble

minerals calcite (CaCO<sub>3</sub>), dolomite (CaMg(CO<sub>3</sub>)<sub>2</sub>), gypsum (CaSO4.2H<sub>2</sub>O) and Halite (NaCL) leach out over time. Soil quality is also effected by on site migration of possible air born contaminate particles. Due to the proximity of urban areas and industrial sites, soil quality at the Niagara Materials site should also reflect the industrial/urban surroundings. Soil quality may also be effected by disposal of materials on site either from past site use or unauthorized disposal.

The inorganic and organic results are discussed separately. Inorganic results for the NMC Soils were reviewed and are discussed below. Background soil data collected by the NCHD depict expected ranges of eight inorganic parameters. The NCHD has compiled quideline background total matrix metal concentrations for soils at urbanized sites within the Niagara Falls area. The Guideline lists both average and expected high concentrations. The average value was statistically determined by taking the mean of a set of results which were three standard deviations away from the average value for the entire result pool. The expected high and low value are three standard deviations from the mean Value.

Comparisons between the eight NCHD soil values and the corresponding concentrations analyzed at each of the three locations on the site were performed. As seen in Table 12a each concentration of the composite samples was below the expected high values with the exception of zinc at RREIA and AGSTIA. However, the geometric mean of 748.6 ppm for the three zinc composite samples is below the NCHD expected high guideline value of 856 ppm. Therefore, the site average zinc sample concentration is within expected urban background values as compiled by the NCHD.

The NJDEP has total matrix quality regulatory limits for soils classified as "below regulatory concern" whereas NYSDEC determinations are based on extraction concentrations. The NJDEP limits set for the sixteen regulated compounds (priority pollutant metals) appear in Table 12a. The total matrix TCL scan performed on the soil, analyzes 8 inorganic compounds in addition to the 16 priority pollutions required by the NJDEP. All priority pollutant metal analytes except chromium and zinc were below the NJDEP regulatory levels for "non-regulated soils". Chromium sample AGST2A at 113 ppm was above the 100 ppm limit.

The geometric mean of 47 ppm for the three chromium results is below the NJDEP non-regulated soil level. All three zinc concentrations were above the 350 ppm limit. Elevated zinc levels can be expected in soils derived from Lockport Formation.

The concentration of zinc and all other analytes were below the 1981 NYSDEC sample results with the exception of chromium in sample AGST2A. The geometric mean of the chromium sample is below the 1981 NYSDEC results. Chromium is used as a dye/pigment in paints, as an abrasive (chromic oxide) and in chrome alloys. Based on reputed site use the elevated chomium level detected in sample AGST2A may have resulted from one or a combination of above uses. Possible sources of chromium detected in the soil sample are paint chips from a tank, particles of chormic oxide from grinding wheel abrasives, and/or ground chrome alloy dislodged from a used grinding wheel. The 1981 report concluded at the site did not present a threat to health or the environmental and remedial action was not recommended at the present time.

The organic results which are summarized in Table 12b will be discussed in the following four groups; volatile compounds, semi-volatile compounds, pesticides and PCBs.

The results for the TLC volatile compounds analyzed indicate methylene chloride was detected at trace level and acetone was detected at 25 ppb as in the AGST1A sample. All other volatile compounds for the three samples were of non-detectable levels. Since Methylene Chloride and acetone were detected in the blank and attributed to laboratory artifacts the possibility exists for their detection in the soil sample to be whole or partially attributed to laboratory artifacts. The levels of volatiles with the soil is extremely low even if the analyzed concentration is representative of the soil quality. The total volatile compound concentration analyzed in the soil samples is below the NJDEP for "below regulatory concern". Methylene regulatory limit chloride is used a cleaner at CTM Analytical Laboratory and may have contaminated either the sample or the analytical equipment causing falsely elevated soil concentrations.

A total of ten different semi-volatile compounds were detected in the three soil samples. Only fluoranthene, 1,500 ppb and pyrene 4,000 ppb were detected above quantitative limits.

Three overlapping semi-volatile sub-groups will be addressed; base neutrals (BN), acid extractable (AE) and polynuclear aromatic hydrocarbons (PNA). The names PNA and polycyclic aromatic hydrocarbons (PAH) are interchangeable. As noted in

previous site report (ES 1987) background PAH concentrations range between 1,000 and 10,000 ppb. The total PAH concentration of samples RRE1A, AGST1A and AGST2A was 5,500, non detectable (ND) and detectable (D) respectively. Each fell within or below the normal background concentrations. The PAH compounds are highlighted with a "\*" on Table 12b.

The three sample PAH concentrations were below the NJDEP 10,000 ppb non-regulatory limit for soils. The 1981 NYSDEC lagoon 3 soil sample PAH result of 6,604 ppb was also within normal background and NJDEP "below regulatory concern" limits. The PAH levels in the above ground storage tank areas are equivalent or below the levels from the Lockport bypass area which was determined as normal background conditions and required no treatment. The higher PAH levels present in the railroad siding bed sample are still within normal background conditions. Slightly elevated readings may be resultant from hydrocarbon combustion or release from trains, coke used as track ballast and/or cresol from railroad ties.

The base neutral sub group of the TCL contains several compounds in addition to the PAH compounds. The only base neutral compound detected which is not also a PAH was hexachlorobenzene. The total concentrations for base neutral is identical to PAH except

in sample AGST1A where hexachlorobenzene was detected below the quantitative limits. The total base neutral concentration for AGST1A was above the detection limits, but below the quantitative limits. In higher concentrations Hexachlorobenzene is used as a fungicide. All three samples were below the NJDEP non-regulatory limit of 10,000 ppb. Full base neutral scans were not performed on the NYSDEC 1981 sampling. Engineering science 1987 sampling report identified 1,700 ppb of the base neutral Bis(2-ethylhexyl) Phthalate in Sample ID. The base neutral concentration was identical to the PAH concentration in all other engineering science sample results.

The acid extractables results of the semi-volatile TCL analysis identified all acid extractables analyte concentrations as non-detectable.

Pesticides were analyzed as part of the TCL analysis. Seven stable components of technical grade pesticides were detected at low levels. The results are summarized on Table 12b. The NJDEP has "below regulatory concern" levels set for DDT at 1,000 ppb and chlordane at 1,000 ppb. The total pesticide concentration for samples RRE 1A, AGST 1A, AGST 2A are 45.4, 77.5 and 92.5 ppb, respectively. Each total concentration is significantly below the individual NJDEP level.

The pesticide compounds identified in the soil samples were derived from typical pesticides used on orchards and farmlands. The use of the following five pesticides which were developed in the 1940 to 1950's possibly resulted in the seven compounds detected:

Metabolite

<u>Pesticide</u>	(Compound Detected)
внс	Delta-BHC
Aldrin	Dieldrin
Endrin	Endrin Ketone
DDT	4,4 DDE
	4,4 DDD
	4,4 DDT
Methoxychlor	Methoxychlor

All of the compounds identified except methoxychlor do not break down. These compounds were all banned in New York State in the 1970's and 1980's with the exception of methoxychlor.

Representatives of the Pesticide Division of the NYSDEC indicated the levels of pesticides at the site were low. Levels

over 1,000 ppb depending upon the type of compound and projected human exposure may result in a potential environmental concern.

Non-detectable levels of PCB were also indicated in the TCL analysis.

#### 7.0 DISCUSSION

Review of results from this supplemental investigation and previous site report indicate the NMC site does not contain gross levels of contamination and past disposal of significant quantities of hazardous materials appears unlikely. Additional data obtained since the original classification of the site warrant a review by the NYSDEC to determine if the site should remain on the Inactive Hazardous Waste Disposal Site List.

The Lockport formation is the upper most bedrock formations and is primarily composed of limestones and dolomite. Regionally, Lockport limestone contains sulfates of lead, zinc and iron in relatively elevated levels. The bedrock also contains the following soluble minerals: calcite, dolomite, gypsum and halite. This rock is one of the parent materials for soils on site and presence of these compounds can be expected in natural background conditions. Dissolved components of these minerals

are expected to be present in the groundwater system. Elevated dissolved levels have been documented in both Johnston, 1964 and LaSala, Jr. 1968.

The local groundwater flow is very complex due to both natural and man-made (quarry/landfill) conditions. Investigation at the NCRDD indicate groundwater mounding centered on the landfill with radial outward flow. Plumes are documented heading in the northeast and southwest directions. Elevated levels of chloride, iron, sulfates, phenols, lead and manganese have been reported in landfill leachate. The NYSDEC states at present there is insufficient information to determine what percent of the elevated compounds are derived from natural or artificial (landfill, industrial) sources. Additional sampling is scheduled for the NRCDD to clarify sources. The NMC lies in the path of the northeast plume. Groundwater flow conditions are not completely defined at the NMC site. Groundwaters at the NMC site appears to have been impacted by the NCRRD site.

Available analytical data regarding soil and groundwater quality was reviewed and compared to applicable NYSDEC regulations, NJDEP regulations, background data and surrounding site data. The following three types of tests were conducted at the site; TCL groundwater, TCLP soil and TCL soil.

Organic and inorganic compounds were detected in the TCL groundwater samples. Only acetone and possible xylene were above the recommended NYSDOH Part 5 standards. The detection of acetone was attributed to sample or analytical instrumentation contamination due to the high level detected in the blank. The regulation for xylenes is 5 ppb for each individual compound concentration. The analysis conducted represented total xylene concentration as 5.5 ppb. If the concentration reported is from a single xylene, the sample would be in violation. However, if individual xylene compounds with concentrations less than 5.0 ppb were totalized, the resultant concentration could be 5.5 ppb and within regulations.

Inorganic compounds detected above NYSDEC Part 703 groundwater regulations are manganese, Magnesium, sodium and iron. The above compounds also exceed NYSDOH Part 5 drinking water supplies regulations, except magnesium which is unregulated. The referenced compounds excluding magnesium can occur at naturally elevated levels in the groundwater system and have been documented at the NCRDD site.

Composite soil samples TCLP analytical results from each reported lagoon and background location was below both NYSDOH Part 5 drinking water and NYSDEC Part 703 groundwater standards.

TCL analysis of soil samples collected at former tank and railroad siding locations indicated elevated levels of zinc and chromium. The elevated zinc levels can be attributed to naturally high levels occurring in the bedrock, a source material for the soil. The chromium level was slightly high in one composite sample. This can be attributed to disposal or error rather than natural sources. Possible sources of chromium are pigments in paints chromic oxide abrasives, and chrome alloy.

The low levels of volatiles detected were attributed to laboratory artifacts. Semi-volatile compounds detected were within normal background levels. Pesticide concentrations were low and are expected in former farm fields and orchards.

Analytical results indicate groundwaters from the site should not be used as a source of potable water. Non-potable usage of site groundwaters may increase the rate of NCRDD landfill leachate migration toward the site. Due to the potential impact from the NCRDD, EHC does not recommend usage of site groundwater. The on site community water supply should be used as the source of water

on site if needed. Due to the elevated level of chromium in soils, EHC does not recommend usage of those soils where they will come in direct contact or will be ingested (i.e. garden, children's sandbox).

The results of this investigation indicated non-hazardous concentration of all compounds tested in the samples. EHC requests that the NYSDEC reevaluate the site's criteria for listing on the NYSDEC Inactive Hazardous Disposal Site List with respect to the presented data. It is EHC's opinion that the site does not exhibit sufficient contamination to be included on the Inactive Hazardous Disposal Site List and requests the NYSDEC evaluate the site for delisting.

# APPENDIX A Previous Analytical Quality Data

	NYSDEC 1981	-						EHC 198	EHC 1989 Groundwater Samples	water Ba	прлев		NYSDEC 1981
	Lagoon 3A							200.7,	200.7, TCL Metals, EPA 608	ls, EPA	909	EBC 1989 Surface	Surface Water
	Heavy Metals	œ,	ES 1987	Вуравв	ЕЅ 1987 Вуравв Soil Samples	ыв		Pestici	Pesticides Herbicides and	icides a	nd	Water Sample (same	Sample, Heavy
	Soil Sample	-	Eptox M	etals Re	Eptox Metals Results in ppb	qdd		Cyanide	Cyanide (Results in mg/l)	a in mg/	1)	analysis as EEC	Metals & Holo-
	Results in											1989 Groundwater	genated Organics
Compound	ug/g Dry	88-18	88-1D	SS-28	88-2D	88-38	88-3D	EBC-1	EHC-2	EHC-3	EHC-4	Results in mg/l	Results in mg/l
Antimony	<10.0	ON	ND	Ø	QN	NO	ND	>0.06	>0.06	>0.05	90.0>	90.0>	<0.2
Arsenic	6.4	QN	QN	QN	ON	N O	QN	0.02	0.13	0.08	0.10	0.01	17
Beryllium	<0.5	QN	ND	ND	NO	ON	QN	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01
Cadmium	4.7	NO ON	Q.	QN	ON	QN	QN	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	70.0	ON	QN	QN	QN	QN	ΩN	0.02	<0.01	<0.01	<0.01	<0.01	<0.005
Copper	86.0	QN QN	QN	QN	QN	ND	QN	<0.01	<0.01	<0.01	<0.01	<0.01	>0.006
Lead	810.0	QN	QN	QN	ND	QN Q	QN	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04
Mercury	<0.3	ND	QN	QN	ON	ND	ON	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.002
Nickel	220.0	QN	QN CN	N	QN	QN	QN	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
Selenium	<0.4	QN	ON	Q	QN	QN	ND	0.1	<0.01	<0.01	0.02	<0.01	<0.005
Bilver	<0.5	QN	ND	QN	QN	ND	QN	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01
Thallium	<5.0	ON	N	Q	Q	ND	Q.	<0.1	<0.01	<0.01	<0.01	<0.01	<0.116
Zinc	1600.0	QN	QN Qu	QN	QN	QN Q	QN	<0.10	0.01	<0.01	0.01	<0.01	N/A
Bodium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	88	1600	1800	2500	14	N/A
Potassium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25	41	47	50	6.7	N/A
Мадппеве	N/A	N/A	N/A	N/A	N/A	N/A	N/A	67	150	98	150	14	N/A
Iron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<0.05	90.0	<0.05	0.07	<0.05	N/A
Calcium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	130	310	110	170	110	N/A
Aluminum	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.16	0.16	0.23	0.26	0.19	N/A
Manganese	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.7	0.23	0.08	0.08	0.04	N/A
Dry Weight	578	N/A	N/A	N/A	N/A	N/A	N/A	QN	Q.	ě	QN	MD	N/A
Phenolics	1.8	N/A	N/A	N/A	N/A	N/A	N/A	Ð	<u>R</u>	QI Qi	Đ.	ND	<0.01
Halogenated	1.2 as C12	•											<0.01 ug/1 as
Organic Scan	Lindane	N/A	N/A	N/A	N/A	N/A	N/A	ON	QN	QN	N O	æ	Cls, Lindane
	Standard	N/A	N/A	N/A	N/A	N/A	N/A	QN.	<b>E</b>	Ð	Q <u>N</u>	QN.	Standard

N/Am Not Analyzed NDw Below Detectable Limits (non-detectable)

	NYSDEC 1981		Engineering Science 1987 Bypass Soil	g Science	1987 Byps	iss Soil						
	Lagoon 3A		EPA (	EPA 8240, EPA 8270 B/N	8270 B/N	& AE		EHC 18	EHC 1989 Groundwater EPA 625	water EPA	625	NYSDEC 1981
	Soil PAH		Resu	Results in ug/kg (ppm) Dry	kg (ppm)	Dry		EPA 62	624 Results in mg/l (ppb)	1n mg/1	(qdd)	Surface Water
-	Results in											PAH Results in
Compound	XIG (mdd) b/bn	88-18	88-1D	88-28	88-2D	88-38	88-3D	EHC-1	EHC-2	ЕНС-3	BHC-4	(ddd) (/bn
Acenapthene	1.0	QN	QN	QN	Q	QN	QN Q	QN	QN QN	GN CN	ON CO	0.53
Acenapthylene	2.0	NO O	Q.	ON	Q	QN	QN	QN	Q.	QN	QN Q	7
Anthracene	0.030	QN QN	QN	QN QN	S S	NO ON	NO ON	Q.	QN	Q.	QN.	0.039
Benzo(a) anthracene	0.18	ND	ON	ON	QN.	QN	QN	QN QN	QN	N Q	<b>M</b>	0.073
Benzo(a) pyrene	0.13	QN	ND	QN	Q.	ND	QN	QN	QN QN	Q.	Q.	0.1
Benzo(b) fluoranthene	0.27	100	QN Q	ND	QN Q	ND	QN Qu	QN	æ	N Q	ON	0.020
Benzo(g,h,1) perylene	0.52	ON	QN Q	NO ON	Q.	QN	QN	QN	QN	QN QN	QN QN	0.94
Benzo(k) fluoranthene	0.1	NO ON	ND	NO	QN Q	NO ON	ND	QN	S S	QN Qu	GN GN	0.18
Chrysene	0.30	70	QN	ND QN	Q	NO ON	M	ND	S.	Ø	ON	0.1
Dibenzo(a,h) anthracene	0.2	N QN	QN Q	NO	Q	QN Q	M	MD	N Q	QN Qu	NO ON	0.93
Fluoranthene	0.88	100	QN Q	09	QN	æ	QN	ON	Q.	MD	QN	0.18
Fluorene	0.15	QN	Ø	ND	QN.	QN	CN	QN	QN	N Q	QN	0.025
Indeno(1,2,3-cd) pyrene	0.084	ND	QN Q	Q.	QN	N	ND	QN	Q	QN Qu	QN	0.058
Napththalene	1.2	QN	QN	Q.	NO ON	N O	M	ND QN	QN	Đ.	Q.	т.
Phenanthrene	0.65	70	Ø	N Q	Q.	QN Qu	ON ON	QN Q	ND	Ð	QN	0.047
Pyrene	0.71	06	Q.	ND	MO	8	N Q	QN QN	QN	QN	QN QN	0.29
Benxoic Acid	N/A	MD	QN QN	Ø	80	6	CM	MD	QN Q	æ	Œ	NA
Dry Weight	55.1%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic Acid	N/A	MD	QN.	Q.	80	6	QN	N O	QN QN	Q.	S S	NA
D1-N-Butylphthalate	N/A	QN Q	Q.	S.	OM	ON.	QN Q	4.0	N Q	Q.	Q.	NA
Bis-(2-ethyl-hexyl)												
Phthalate	N/A	N Q	Q	ND	QN Q	ND	ND	QN.	5.0	MD	S.	NA
Carbon Disulfide	N/A	QN Q	QN.	æ	QN	QN	QN QN	Ð	17.4	71.8	4.8	NA
Toluene	N/A	QN QN	ND	QN	QN Qu	CZ.	NO ON	QN	Q.	2.0	MD	NA

N/A= Not Analyzed ND= Below Detectable Limits (non-detectable)

## APPENDIX B July 18, 1992 Work Plan

July 18, 1991

Mr. Robert Pass, Vice President Frontier Stone P.O. Box 510/400 Henman St. Lockport, NY 14095

RE: NYSDEC Supplemental Information Request, Niagara Material Company Plant Site.

Dear Bob:

This work plan has been prepared to respond to the request for additional information made by the representatives of the New York State Department of Environmental Conservation (NYSDEC) during our recent April 25, 1991 scoping meeting. The scope of work and the cost estimates represent a level of effort considered necessary in responding to the issues raised by the NYSDEC (i.e., concerning the environmental quality of the aforementioned site).

The methods by which the site's quality will be addressed have been in part based on directives received from the NYSDEC. The primary objectives of this work plan will be to address the areas on site reputedly utilized for storage and/or disposal of liquid waste (i.e., lagoons, tank farm). The manner in which the chemical quality of the areas in question will be accomplished via surface soil sampling and acquisition of additional groundwater data. A more detailed narrative of the methods by which the site's quality will be further characterized are listed below by task.

- Task 1: Collect surface soil and sediment samples in, and adjacent to, three former lagoons. Utilize existing aerial photography and field observations (i.e., stressed vegetation) to establish soil sampling locations.
- Task 2: Install two 6 inch diameter test borings, converting each to 2 inch PVC monitoring wells. Subsequent groundwater and surface water sampling of proposed and existing monitoring wells; and existing surface waters.
- Task 3: Prepare a written report identifying the environmental conditions associated with the areas investigated, outlining methodologies, providing recommendations and conclusions with respect to the study area.

The following is a detailed description of the scope of work proposed for each of the three tasks of work.

ROUTE 146, CLIFTON PARK, NEW YORK 12065 (518) 371-7621 28 MADISON STREET, RUTLAND, VERMONT 05701 (802) 775-3100

— Shivironinanisal — hydrogeology corp. Page 2 Mr. Robert Pass July 18, 1991

#### TASK 1: Soil Quality Sampling

A comprehensive soil sampling program will be performed in select areas of the subject site. The current sampling locations under consideration are based on directives received by the NYSDEC and include the three lagoons, two above ground tank areas, a railroad easement and a background location (to be determined based on field conditions). A schematic diagram of the proposed soil sampling locations are illustrated on Figures 1 and 2.

A series of grab soil samples will be obtained from each of the aforementioned locations. All sampling will be performed utilizing stainless steel sampling equipment. All sampling equipment will be pre-cleaned prior to use according to the following protocol:

- . Methanol Rinse
- . Warm Detergent Wash
- . Tap Water Rinse
- . Distilled Water Rinse

Each sample will be obtained from the upper 12 inches of the soil horizon. A detailed field log of the soils encountered will be recorded at each location selected. Samples obtained will be visually examined and described using the Modified Burmister and Unified Soil Classification System. Additional field screening of select sampling location will occur utilizing an HNu Model PI-101 photoionization analyzer, a Mine Safety Appliance Co. (MSA) Model 2A explosimeter and Draeger colorimetric detector tubes.

samples will be retained in pre-cleaned glass (provided by the analytical subcontractor) sealed with aluminum foil and/ or similar inert screw top lids. The headspace in the sample jars will be tested by piercing the aluminum foil soil with the HNu probe. The results of the HNu testing will be used determine the presence and/or absence of volatile organics within the upper soil horizon. In compliance with ASTM methods, the sample jars will be labeled with the following information: job designation, project number, sample number and sampling Three composite samples will be manufactured from nine sampling points in each target lagoon area and chemically for the parameters inclusive of the Toxicity Characteristic Leaching Procedure (TCLP). One composite sample be manufactured from three sampling points in the designated background area and analyzed for the same TCLP extraction procedure.

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One composite soil sample will be manufactured from three sampling locations adjacent to each of the former aboveground storage tanks and the railroad easement and chemically analyzed for the parameters inclusive of the Target Compound List (TCL).

The rationale for employing TCL versus TCLP methods results from the existence of total matrix soil quality within the lagoons and background areas. Additional headspace gas measurements will be obtained from the composite soil samples utilizing Draeger colorimetric detector tubes and the HNu photoionization meter.

Additional TCLP analytical work may be deemed necessary in the former storage tank and railroad areas pursuant to the TCL results.

All soil sampling will be performed by experienced EHC hydrogeologists. Samples requiring low temperature preservation (4°C) will be kept chilled in the field by commercially available (pre-frozen) "ice packs" and appropriate holding times will be followed. Chain-of-custody will be maintained throughout the shipment of samples to the laboratory and will comply with appropriate transportation regulations. Observations will be made and recorded regarding weather and surrounding air/water/ soil conditions and other pertinent field observations.

#### TASK 2: Test Boring/Monitoring Well Installation

Pursuant to the request of the NYSDEC, the installation of two additional monitoring well control points will be necessary for the groundwater quality characterization of the site.

Each test boring/monitoring well will be drilled and constructed at a predetermined location selected by the NYSDEC to provide additional data on the site's upper most groundwater bearing formation(s) as illustrated on Figure 1 (i.e.,  $\pm$  35 feet). Each test boring will be installed following standard drilling methods utilizing air rotary drilling techniques. Air rotary drilling techniques are considered applicable to this investigation as a result of the shallow nature of bedrock formations which underlie the site (i.e.,  $\pm$  2.0 feet). If possible, air filtration equipment will be installed on any air compressing equipment utilized to construct the proposed monitoring wells.

Grab soil and bedrock samples will be obtained at five foot intervals and/or at formational contacts within the Lockport

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bedrock formation. All grab samples will be logged on site as they are extracted, utilizing the Modified Burminster/Unified Soil and Amstrat Bedrock Classification System. A detailed test boring log and monitoring well completion diagram will be completed for both locations.

Each test boring will be converted to a permanent monitoring well. Monitoring wells are composed of two basic components; the well screen and the riser or blank. Well screens are the intake portion of the monitoring well. The basic purpose of the riser is to provide storage and a connection to the surface from the well screen. Monitoring wells will be installed individually. The size and materials used in monitoring well construction will be determined on a site specific basis, as necessary.

Existing data suggests that the proposed monitoring wells will be constructed of 2 inch flush joints, schedule 40 PVC pipe with 10 feet of slotted well screen. Each monitoring well will be constructed to screen the upper most groundwater formation and/or at an appropriate depth for the hydrologic conditions at the site.

A tailpiece will be included below the screen to postpone silting of the well where finer grained materials are encountered. The annular space around and approximately two feet above the well screen will be filled with a clean filter pack material graded for the slot size of the well.

A two foot thick bentonite seal will be installed above the sand pack. The remainder of the borehole will be cement bentonite grouted to the surface. A steel protective casing will be cemented over each well to prevent unauthorized access and provide protection for the wells. The well identification number will be clearly painted on the outside of the protective casing. An experienced EHC geologist will supervise all aspects of the drilling and monitoring well installation programs and be responsible for detailed logging of all samples.

As part of the subsurface drilling program, EHC will perform periodic examinations of the ambient air space surrounding the work zone, and the open bore hole to evaluate the presence of volatile organic compounds and combustible gasses. An HNu Model PI-101 photoionization analyzer and a Mine Safety Appliances Company (MSA) Model 2A explosimeter will be used to facilitate the testing requirements. The information acquired will be used to determine the level of health and safety equipment necessary to accomplish the proposed work.

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#### <u>Decontamination Procedures</u>

Prior to drilling the first boring, the equipment to be used in drilling and monitoring well installation will be cleaned to remove possible contaminants encountered during drilling at previous jobs. All equipment which is to come in contact with the soil or rock, as well as water tanks, drill tools, pumps and will undergo the initial cleaning procedure. While hoses working at the site, the drilling equipment decontaminated between wells to prevent cross-contamination. Decontamination will take place at a designated decon area. The cleaning process will involve the use of a steam cleaner or high pressure hot water. Uncontaminated water, collected off site, will be used for all decontamination procedures. All water which results from the decontamination process will be containerized in 55 gallon drums.

#### Well Development

All monitoring wells will be developed using either a modified air-lift technique or bailing. Well development is necessary for the following reasons:

to remove residual drilling mud and formational silt and clay, thereby preventing turbidity during sampling that could potentially interfere with chemical analysis; and,

to increase the hydraulic conductivity immediately around the well, which in turn, reduces the potential of the well yielding an insufficient volume of water during the sampling procedure.

All well development activities will be initiated approximately 24 to 48 hours subsequent to well completion. A modified air-lift method will be used for all well development, if possible. The basic air-lift method involves pumping compressed air into the well forcing out water containing undesirable fine silt and clay. The modified air-lift method, described below, is an adaption of the basic air-lift method and provides the following advantages over the basic method:

no air enters the well;

water is removed directly from the screened portion of the well; and,

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The coalescer unit, which filters the air, reduces any possibility of introducing foreign substances into the well.

actual modified air-lift method is described as follows. Five-foot sections of pre-cleaned one-inch diameter PVC pipe will be screwed together and lowered into the monitoring well until the end of the bottom-most section of pipe is positioned within the screened section. Attached to the bottom of the pipe are two one-way check valves separated by about three inches of one-inch PVC pipe. Both check valves close in a downward direction. Two air compressor hoses are used. One connects the air compressor to the coalescer, and the other one runs from the coalescer down the one-inch PVC pipe well development assembly until to approximately five feet above the upper check valve. The orientation of the check valve allows the pipe to fill with water. Activation of the air compressor momentarily shuts the upper check valve and forces the trapped column of water up and out of the pipe. The release of the water lowers the pressure on top of the check valve allowing water to again enter the pipe until the air pressure becomes sufficient to close the check valve and blow out the column of water. This process repeats itself if the water pressure (head) is capable of balancing the air pressure created by the compressor. In wells lacking adequately long water columns, the water pressure is incapable of reopening the check valve allowing a fresh column of water to enter. Manual control of the air pressure is necessary in these instances. The lower check valve assures no air enters the monitoring well. To prevent cross-contamination between wells, the one-inch pipe is washed with uncontaminated water before introduction into each well.

In wells with short columns of water, the modified air-lift technique may prove ineffective, necessitating the alternative development method of hand-bailing. Bailers, to be used later for groundwater sampling, will be utilized for development purposes. The bailers will serve both as a surge-block device for loosening the fine-grained material from the well annulus, and as a mechanism to remove the water and sediment from the well. The surging is accomplished by rapidly raising and lowering the bailer within the screen section. Bailing will be continued until the water has sufficiently cleared or five well volumes of water has been removed. All waters resultant from the development procedure will be contained in 55 gallon drums and disposed of off site, as necessary, pursuant to the chemical results obtained from each monitoring well.

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#### Hydraulic Conductivity Testing

Subsequent to 24 to 48 hours of well stabilization, both slug and bail tests will be used to estimate the hydraulic conductivity of the unconsolidated aquifer. In wells screened below the water table, slug tests will be conducted. In wells where the water table surface is intersected by the screen, bail tests will be performed. Testing will be performed in overburden monitoring wells after they have been developed. Both tests involve observing the recovery of water levels toward an equilibrium level after an initial perturbation. In each test, fluctuations of the water level within each monitoring well versus time is obtained for use in calculating the hydraulic conductivity.

Data obtained will be analyzed according to the method developed by Hvorslev. Results will be checked using a second analysis method as described by the U.S. Department of the Navy and described by Cedergren.

#### Groundwater/Surface Water Sampling and Analysis

#### Sampling Procedures

Prior to any water sample collection, static water levels will be measured to the nearest one- hundredth of a foot in all existing and proposed monitoring wells (including off site wells, as available). Then using either a five foot, bottom-fill PVC bailer or the aforementioned modified air lift technique, the wells will be exercised to dryness or three volumes of water (based on the volume of water in the casing) will be removed, depending on well depth/volume and recovery rates groundwater recharge. Concomitant with the removal of three volumes of water, temperature, pH, specific conductance, and turbidity will be measured until these parameters show no indicating that fresh, change, representative groundwater is entering the well. Groundwater sampling will take place when a sufficient volume of water has recovered (following exercising dryness or when fresh aguifer water has entered the well). Sampling will be performed by bottom filled, check valved PVC bailers using monofilament to lower and raise the bailer. Grab surface water samples will be obtained as possible at location(s) in, and/or proximal to the lagoon areas. Surface water samples will be collected by hand by lowering dedicated pre-cleaned sample bottles within the area of interest.

All sample containers and preservatives will be provided by the laboratory. All samples will be analyzed as total matrix. Field

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quality measurements of pH, specific conductance, temperature and turbidity will be recorded prior to groundwater sampling. Samples requiring low temperature preservation (4°C) will be kept chilled in the field by wet ice or commercially available (pre-frozen) "ice-packs" and appropriate holding times will be followed.

All samples will be collected in such a manner as to minimize agitation and other disturbing conditions which may cause physio-chemical changes and bring about losses due to volatilization, adsorption, redoc changes or degradation.

All sampling equipment will be cleaned according to the following protocol.

- Warm detergent wash
- . Tap water rinse
  - Distilled water rinse

Groundwater and surface water samples collected will be analyzed for the parameters inclusive of the TCL. All sampling will be performed following 7 days of well stabilization (after well development and hydraulic conductivity testing), by an experienced EHC hydrogeologist. Chains of custody will be maintained throughout the shipment of samples to the laboratory and will comply with appropriate transportation regulations. Observations will be made and recorded regarding weather and surrounding air/water/soil conditions, non-aqueous components of well water (e.g. "floaters," surface sheens) and any other pertinent field conditions. Records are kept for calibration of all field equipment and will be made available, as necessary.

#### Monitoring Well Surveying

Monitoring well locations and elevations will be surveyed at each site. United States Geological Survey or Coast and Geodetic Survey datum will be used to determine ground level, and pipe collar elevations at each well installation. The wells will be located in relative positions to existing ground features such as paved roads, permanent structures, bench marks, and property lines.

#### TASK 3: Evaluation of Hydrogeologic Data/Report Preparation

Data collected using the methodologies described in Task 1 and 2 will be utilized along with data developed during previous work

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performed by the NYSDEC and EHC, to interpret and describe the hydrogeologic conditions of the site. Evaluation of collected field data will be conducted by a team of highly qualified and experienced EHC hydrogeologists and industrial site specialists. Presentation of the evaluation will be clear and concise, providing an understanding of site conditions.

Test boring logs will be utilized to further define the geologic conditions at the site. Water-level measurements, taken prior to water quality sampling, will be used to determine the water table or potentiometric surface elevations. These elevations will be presented in contour form, allowing for determination of areal groundwater flow directions. Groundwater flow is perpendicular to the groundwater elevation contours.

Soil quality data will be utilized to define the areas on site effected by the use, storage and/or disposal of hazardous materials. Groundwater and surface water quality data will be used to further characterize the extent to which the historical commercial activities have effected the indigenous groundwater and surface water systems.

Results of the hydraulic conductivity testing will be utilized to evaluate the transmissive characteristics of aquifer material surrounding the wells. The use of hydraulic conductivity values, coupled with areal hydraulic gradients determined from the groundwater elevation contour maps, will allow for an estimation of groundwater velocities. This will aid in a more complete determination of the expected path of contamination transportation, as necessary.

#### Report Preparation

A final report will be prepared and submitted to Frontier Stone. It will document all investigatory activities. It will discuss the rationale and methods of the investigation selected. final report will include all data, analysis and calculations, methodology, water quality results, chain-of-custody documentation as well as any field notes. All information will presented in a clear and concise manner and substantiate conclusions and recommendations reached. The report will be designed to determine the presence and/or absence of hazardous waste within the areas selected by the NYSDEC. Based on the results of this investigation and the subsequent input received information generated as a result of this by the NYSDEC, investigation should be adequately comprehensive to identify the for on site remediation and/or facilitate the necessity information typically required during real property transactions.

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#### Cost Estimate

The total estimated cost for EHC to perform all the technical services outlined in this document assuming the assumptions outlined, are as follows:

### TASK 1: Soil Quality Sampling Environmental Hydrogeology Corporation Services

- Field Reconnaissance Sample Acquisition....Health and Safety Field Supervisor.....Sample Preparation Delivery.....
- Decontamination Supplies.....(estimated).
   (i.e., Acetone, Methanol, Distilled
   water, containment Drum)
- . Project Administration/Management.....

### Laboratory Services Soil Quality

- . (9) Toxicity Characteristic
  Leaching Procedure (TCLP).....
  (assumes non QA/QC format vs.
  QA/QC format)

#### TASK 2: Test Drilling/Monitoring Well Installation Environmental Hydrogeology Corporation Services

- . Groundwater/Surface Water Sample Acquisition.. (assumes 6 monitoring wells and 1 surface water sample)
- . Health and Safety Field Supervisor.....

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•	Sample Preparation - Delivery
•	Decontamination Supplies(estimated).
	(i.e., distilled water, containment
	plastic, containment drums)
•	Project Administration

#### Laboratory Services

Groundwater/Surface Water Chemical Analysis..... (7) TCL - Non-CLP format vs. (7) TCL CLP format)

#### Drilling Services (Estimated)

(2) 6 inch diameter/35 foot Test Boring/Monitoring Wells..... (See Attachment B)

#### Topographic Survey (Estimated)

(2) Man Field Crew (Assumes 2 Days @ \$95.00/hour).....

#### TASK 3: Data Assimilation/Report Preparation

- . Data Reduction/Synthesis..... . Report Preparation..... Project Administration.....

The total cost estimates identified above are based on the time services presumed necessary and outlined within this and proposed work plan.

Prior to awarding any subcontracts, EHC will request written cost estimates for the anticipated work, in order to corroborate the outlined subcontractor cost estimates. We will need prior authorization for this project to obtain the necessary cost confirmations, in order to ensure availability of the necessary subcontractor. A written cost proposal has been provided by Nothnagle Drilling and is included for your review as Attachment В.

As identified during our recent telephone conversation the estimates provided are based on directives received from the involved NYSDEC authorities. I have provided several options in which data specific to site's groundwater and soil qualities can be derived. As identified in the cost estimates the option pursued will effect the ultimate costs incurred. As information Page 12 Mr. Robert Pass July 18, 1991

from each of the respective tasks of work is assimilated and refined, more accurate assessments for the anticipated costs for subsequent tasks of work can and will be provided.

No costs have been provided for either off site transportation and/or disposal of liquid and solid wastes which may be generated as a result of this investigation (i.e., decon water, development water, etc.) due to the uncertainty of the hazard and/or non-hazardous determination.

This cost estimate does not reflect the cost for road construction, or for meetings EHC will be required to support for this project work. Any additional services or modifications required by you or other such involved organizations will be invoiced at our standard hourly rates for the individuals involved. No additional work will be conducted without prior authorization.

At this time, it appears likely that one meeting between EHC and Frontier Stone should take place prior to the submission of this work plan to discuss the cost to information benefits of the options presented herein. Additionally, it is also realistic to assume that one meeting (possibly on site) will also become necessary with the representatives of the NYSDEC prior to the initiation of this work plan.

Environmental Hydrogeology Corporation invoices for services will be monthly for charges incurred during the month. Invoices are payable upon receipt and are due within 30 days. Environmental Hydrogeology Corporation imposes a 1-1/2% fee per month (18% per year) on all overdue invoices.

There is a 15% administration charge to cover subcontractors and there associated invoice bookkeeping. You may elect to process the invoices yourself to eliminate this charge.

The majority of the costs estimates provided assume OSHA Level "D" working conditions. Costs associated with higher levels of personal safety will be provided as necessary as a result of the hazard encountered. A general health and safety work plan has been included in this correspondence as Attachment C.

The intent of this proposal has been to outline the services to be provided, cost estimates, and invoicing procedures for the proposed services. If you have any questions about the services to be provided, or this proposal, please contact us. If you select Environmental Hydrogeology Corporation to provide the proposed services and find the terms and conditions as set forth acceptable, please issue a purchase order or endorse the

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provided authorization release and return it to our offices in Clifton Park.
It has been our pleasure to provide this proposal and we look forward to being of service to your organization.
Very truly yours, Environmental Hydrogeology Corporation  Jeffrey T Wink Senior Hydrogeologist/Principal
JTW/aw
AUTHORIZATION
DATE

# ATTACHMENT A Equipment Billing Rates

#### EQUIPMENT BILLING RATES

Equipment	<u>Price</u>
Air Purifying Resporator (APR) - Full Face	\$ 10.00 day
APR Combination Filter Cartridges	\$ 20.00 each
Brunton Compass	\$ 5.00 day
Colorimetric Detector Tubes	\$ 7.00 each
Clear Dedicated PVC Bailers (5 ft)	\$ 35.00 each
Colowasa Sampler	\$100.00 day
Combustible Gas Indicator	\$ 75.00 day
Computer (Field)	\$150.00 day
Computer (Office T-code 124)	\$ 50.00 hour
DI/Distilled H <sub>2</sub> 0	\$ 2.00 gallon
Dedicated PVC Bailers (5 ft)	\$ 30.00 each
Fifty Five (55) Gallon Containment Drum	\$ Cost + 25%
Faxcimilies	\$ 1.00 page
Fugi Pump	\$ 50.00 day
Hand Auger	\$ 10.00 day
HNu PI-101 Meter	\$100.00 day
Issco Composite Sampler	\$100.00 day
Locks	\$ 10.00 each
Mirror Stereo Scope	\$ 15.00 day
Nalgene Disposable Filter System	\$ 7.50 each
One Eight inch (1/8") Nylon Rope	\$ 25.00/100 ft
Outer Gloves	\$ 15.00 pair
pH Meter	\$ 5.00 sample

### EQUIPMENT BILLING RATES (Continued)

Equipment	<u>Price</u>
Plastic Drop Cloth	\$ Cost + 25%
Pocket Penterometer/Torvane	\$ 5.00 day
Poly Gloves	\$ 25.00 box
Poly Tubing	\$ .50 foot
Poly/Tyvex Coveralls	\$ 20.00 each
Sample Bags (Large)	\$ 5.00 each
Sample Bags (Small)	\$ 2.00 each
Steel/Fiberglass Tape	\$ 5.00 day
Stevens Strip Chart Recorder	\$100.00 day
Suzuki (4) Wheel ATV	\$100.00 day
Water Level Meter (Powers Box Type)	\$ 5.00 day
Water Level Meter (Solonist Reel Type)	\$ 6.00 day
Well Dev. Oil Filter System	\$ 40.00 day
YSI SCT-33 Meter	\$ 10.00 sample

# ATTACHMENT B Drilling Subcontractor Cost Estimate

### NOTHNAGLE DRILLING

#### 1821 Scottsville-Mumford Road Scottsville, New York 14546 (716) 538-2328

July 11, 1991

Environmental Hydrogeology Corporation 900 Route 146 Clifton Park, New York 12065 RE: Drilling Services
Frontier Stone
Lockport, New York

ATTN: Jeffrey Wink

Dear Jeff:

Please find below applicable unit costs for the above referenced project.

	EST QTY	UNIT COST	EST. EXTENSION
1. Mobilization & Demobilization	1	LUMP SUM	<b>\$</b> 300.00
2. 8" Bedrock Drilling	0.0 Ft	\$15.00/Ft	0.00
3. 6" Bedrock Drilling	70.0 Ft	\$8.00/Ft	560.00
4. 2" PVC Well-Installed	74.0 Ft	\$18.00/Ft	1,332.00
5. 2" Centralizers	4	\$20.00/Ea	80.00
6. 4" Locking Steel Protective Casing		•	
with Keyed Alike Lock	2	\$100.00/Ea	200.00
7. 500 Gallon Water Truck and Steam		•	
Cleaner Rental	1 Day	\$50.00/Day	50.00
8. Temporary Decontamination Pad	1	N.C.	0.00
9. Decontamination Time	2.0 Hr	\$130.00/Hr	260.00
10. Standby Time	0.0 Hr	\$130.00/Hr	0.00
	TOTAL EST	IMATED COST:	\$2,782.00

We understand the scope to include two borings advanced with a six inch down hole hammer to thirty five feet. Each boring will receive a two inch PVC monitoring well, having ten feet of factory slotted screen. Both wells will be completed with a four inch locking steel protective casing and keyed alike lock.

All downhole equipment will be decontaminated between each bore hole.

We hope this proposal meets with your approval. If we can be of further service, please call at your convenience.

SAD:ge

Sternen A. DiLaura

Environmental Drilling Manager

tester a. Di Laura

A THE PARTY OF THE

# ATTACHMENT C Health and Safety Plan

#### HEALTH AND SAFETY PLAN

Activities: HNu field survey of project area, surface soil sampling (three lagoons, a railroad easement, and two former above ground tank areas), installation of the two test boring/monitoring wells along with groundwater (and surface water, if possible) sampling.

#### EHC Generic Occupational Health and Safety Plan (HASP)

The four levels of personnel protection which have been identified for use in the current project are summarized below.

- Level A: Self-Contained Positive Resource Demand Breathing apparatus with fully encapsulated suit.
- Level B: Self-Contained Positive Resource Demand Breathing apparatus (4 hour portable or line)
  with TYVEK-SARAN encapsulated disposable suit
  (with chemical splash suits as necessary),
  boots, and gloves (double NEOPRENE over VITON).
- Level C: Air purifying respirator with chemical cartridge (standard organics/acid gasses/radionuclides/fumes/mists/dusts/particles), TYVEK-SARAN or polylaminated coveralls, safety boots, gloves (NEOPRENE over VITON), hard hats with integral face shield and goggles, and personal first aid kit.
- <u>Level D:</u> Ibidem Level 3 except respirator use is optional. Respirators must be available at all times.

Level D is currently recommended for most activities proposed. Level C will be required for site specific soil sampling activities. Level C may be required for borings/monitoring well installation and groundwater sampling work, if significant dust/particulate conditions develop and/or HNu monitoring warrants. A more comprehensive assessment of HASP is as follows:

HAZARD ASSESSMENT: (toxic effects, including TLVs, IDLHs, reactivity, stability, flammability, and operational hazards with sampling, decontaminating, etc.):

Considering all health threatening quality data from the site is limited to soils, the EPA 40 CFR 50.6, 50.7 ASHRAE Standard 62-1989: Ventilation for acceptable indoor air quality standard of .075 mg/m3 have been used for potential dust accumulation. The standard indoor value for dust of 0.75 mg/m3 has been utilized to develop the level of health and safety.

	Toxic Effects	TLV	IDLH	<u>STGL</u>	<u>Comments</u>
Lead	Kidneys, Blood, Skin, GI Tract	.15 mg/m3	N/A	N/A	Strong oxidizers
Zinc	Respiratory System	5 mg/m3	N/A	N/A	Incompatible with Chlorinated rubber
Chromium	Respiratory System	.05 mg/m3	500 mg/m3	N/A	Strong oxidizers

SITE WORK ZONES: (designate exclusion zone, contamination reduction zone and support zone) 
Level D protection during most work unless HNu readings are + 5

ppm above background in breathing zone (See Figure 3).

Level C protection during actual site specific soil sampling work.

SITE ACCESS: (describe procedures to control site access)
List of authorized personnel to be used in case of evacuation
and on site entrance activities.

MONITORING PROCEDURES: (if required by the Safety Officer)

Monitoring the site for identity and concentration of contamination in all media:

Work Area to be monitored with HNu and explosimeter, soil

sampling locations to be randomly monitored with colorimetric detector tubes.

Medical procedures for evidence of personnel exposure i.e., analysis specific to site not covered in general EHC physical:
Not applicable to subject site.
Personnel monitoring procedures:
Not applicable to subject site.
DECOMMENSATION AND DECOMME
DECONTAMINATION AND DISPOSAL:
Decontamination Procedures: (contaminated personnel,
surfaces, materials,
instruments, equipment, etc.):
Soil Sampling Equipment - Methanol Rinse, Detergent Wash, Tap
Water Rinse, Distilled Water Rinse; Drilling Equipment - Steam
Clean. Groundwater sampling equipment - Detergent wash, tap
water rinse, distilled water rinse; Personnel - Soap and Water
Wash.
Disposal Procedures: (Contaminated equipment, supplies, disposables, washwater):
Personnel Equipment - Bag Clothing, Return to Lab; Decon Waters-
Drummed on site until analytical results are obtained or if HNu
response less than 5 ppm in soil/rock spill on ground: Develop-
ment Waters - Drum on site until analytical results obtained.
EMERGENCY PROCEDURES:
In event of personnel exposure: (skin contact, inhalation,
ingestion, specific
procedures for specific
chemicals):
Skin Contact - Rinse with water and soap water wash.

In event of injury:	
Perform Field First Aid; Activate EMS System	_if potential
serious injury exists.	
In event of potential or actual fire or	explosion:
Evacuate site (utilized authorized personne)	list to ensure
everyone has left) and meet at designated ch	neck point (i.e.,
Access Road south of Support Zone 1)	
In event of potential or actual ionizing	radiation exposure:
Not applicable to subject site.	-
In event of environmental accident (spr	ead of contamination
outside sites):	
Notify EHC offices at (518) 371-7940	
Contact: Eric Hanson - President/Jeff Wink	- Senior Hydro-
<pre>geologist/Principal</pre>	
EMERGENCY SERVICES (complete here or have se	parate list
available on site)	
<u>Location</u>	Telephone
Emergency Medical Facility	
Lockport Memorial Hospital	(716) 434-9111
521 East Avenue	
Lockport, NY 14094	
Ambulance Service	
Niagara Ambulance Service	(746) 284-2228
2621 Lockport Road	(or 9 1 1)
Niagara Falls, NY 14303	(01 3 1 1]
Frontier Ambulance (Same Address)	(716) 285-3663

Fire Department	
City of Lockport - Fire Headquarters	(716) 439-6611
Lockport, NY 14094	
Jack Lyon -	(716) 434-8111
<u> Hazardous Materials Response Team</u>	ext. 318
Southcrockport - Fire Department	(716) 236-2086
Lockport, NY 14094 (John Jones)	
Police Department	
Niagara County Sheriff	(716) 439-9390
526 Niagara Street Ext.	
Lockport, NY 14094	
Poison Control Center	
Childrens Hospital	(800) 888-7655
219 Bryant Street	(716) 878-7654
Buffalo, NY 14222	(.20) 070-7054

### <u>PERSONNEL POTENTIAL EXPOSED TO HAZARDOUS SUBSTANCES</u> (As Applicable)

Personnel Authorized to Enter Site (specific conditions of site would preclude mot EHC trained persons from entering site and would allow only certain personnel, list here)

- 1. NYSDEC Representatives
- 2. EHC Employees
- 3. <u>Drilling Subcontractors</u>
- 4. Topographic Surveyors
- 5. (Specific Names to be provided on a daily basis pursuant to EHC's Tailgate Safety Materials, See Example).

#### ALTERNATIVE WORK PRACTICES

(Describe alternative work practices or instruments not specified in this room. Indicate work practices specified in the chapter for which proposed alternative work practices will serve as substitute.

Not	Applicable.

TASK SPECIFIC LEVEL OF PROTECTION (attach table, as necessary including specific description of protective gear)

Most tasks will be performed under Level D HASP conditions unless HNu response of + 5 ppm above background is obtained, in which case Level C HASP conditions will be maintained. All site specific soil sampling work will be performed utilizing Level C protection (See Generic HASP Outline).

#### SITE MAP

(Attach a site map. Map should be properly scaled and keyed to local landmarks.) See Figure 3.

#### TRAINING

(Provide description of minimum training, reference OSHA Sections).

2 - Person - 1910.120 e(2)

CPR

1 - Person - 1910.120 e(3)

EMT, Adv. First Aid, CPR

#### **AFFIDAVIT**

All personnel who enter site must sign attached affidavit. EHC personnel must also read and comply with the enclosed EHC's Generic HASP.

#### **AFFIDAVIT**

I,	f
(company name) have read t	he Health and Safety Plan (HASP) for
the	(site description and
	ve also read the EHC's generic HASP.
I agree to conduct all on	site work in conformity with the
	s. In addition, I acknowledge that
	designated procedures in the Health
and Safety Plans may lead	to my removal from the site.
_	
S	igned
<b>.</b>	ato

#### APPENDIX C

Lithological Classification Soil Boring Logs

ENVIRONMENTAL HYDROGEOLOGY CORPORATION RTE.146 CLIFTON PARK, N.Y. 371-7621					TEST	BORIN	G LOG	BOR	ING No. EHC-5	
PROJE	ECT	Niagara	Material	s					SHEET 1	0F 2
CLIEN	Į T	Frontie	Stone						JOB No.	63035.001
DRILL	ING	CONTRACT	or Not	hnagl	e Drill	ing			MEAS. PT	. ELEV.
PURP	OSE ,	Subsurfac	ce Invest	igati	on				GROUND E	ELEV. 592.76
DRILL	ING	METHOD	Air Rota	ary		SAMPLE	CORE	CASING	DATUM	MSL
DRILL	RIG	TYPE			TYPE	Grab	N/A	N/A	DATE STA	ARTED 11/12/91
GROU	NDWA	TER DEPT	H N/A		DIAM.	6½"	N/A	N/A	DATE FIN	IISHED 11/12/91
MEAS	URING	POINT	Grade		WEIGHT	N/A			DRILLER	Don Du Boice
DATE	OF	MEASUREM	ENT 11/1:	2/91	FALL	N/A			INSPECTO	R L. Williams
DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG		GEOLO	GIC DES	CRIPTIC	N	REMARKS
	s <sub>1</sub> s <sub>2</sub>				Dr (Go	Gr Do fxtoat Island	Member)	- <u>+</u> 14.0	DRY Drilled easier than EHC-6, no large fractures noted.	
! -       	s <sub>5</sub>									

ENVIRONMENTAL HYDROGEOLOGY CORPORATION RTE.146 CLIFTON PARK, N.Y. 371-7621 TEST BORING LOG BORING No. EHC-5								
PRO	PROJECT Niagara Materials SHEET 2 OF 2							
CLIENT Frontier Stone JOB No. (							63035.001	
ODEPTH FT	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6.	UNIFIED CLASSI- FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	N	REMARKS	
25 -	s <sub>6</sub>				Dr Gray Dolostone, fine crystall (DECEW MEMBER)	- <u>+</u> 22.0	DRY	
30 -	. s <sub>7</sub>				Same;		DRY	
35 -	S8				Same; Total Depth of Boring @ 35.5'		Completed DRY	
40 -	S 9							
45 -	S <sub>10</sub>							

EHC ENVIRONMENTAL HYDROGEOLOGY CORPORATION RTE.146 CLIFTON PARK, N.Y. 371-7621						TEST	BORIN	G LOG	BOR	ING No. EHC-6	
PROJ	PROJECT Niagara Materials SHEET 1 OF 2									0F 2	
CLIENT Frontier Stone JOB No. 63035.00									63035.001		
DRIL	DRILLING CONTRACTOR Nothnagle Drilling MEAS. PT. ELEV.									. ELEV.	
									GROUND	ELEV. 592.17'	
DRIL	LING	METHOD	Air Ro	tary		SAMPLE	CORE	CASING	DATUM MSL		
DRIL	L RIG	TYPE			TYPE	Grab	N/A	N/A	DATE STARTED 11/12/91		
GROU	NDWA	TER DEPT	н 35.38	1	DIAM.	6 <sup>1</sup> / <sub>4</sub> "	N/A	N/A	DATE FINISHED 11/12/91		
*		3 POINT	Grade		WEIGHT	N/A			DRILLER Don Du Boice		
DATE	OF	MEASUREM	IENT 11/1	3/91	FALL	N/A	INSPECTO			R L. Williams	
SAMPLE NUMBER BLOWS ON SAMPLE SPOON CLASSI- FICATION GRAPHIC					GEOLOGIC DESCRIPTION				REMARKS		
					Bro	wn fine S	AND and C	layey Şilt	0.4	DRY	
	S <sub>1</sub>										
(2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	s <sub>2</sub>				No	k Gray Dol fossils no AT ISLAND	oted	ine cryst	alline	DRY	
										Slightly fractured entire length of boring.	
	s <sub>3</sub>				Sam	e;				DRY	
THE CONTRACTOR OF THE PERSON O									<u>+ 13.0'</u>	ET CHARLE CHARLES IN THE CHARLES IN	
150	S <sub>4</sub>					to Dr Gr [	o, Cxtl	:	<u>+ 17.0'</u>		
  	5-5-				(GA: Lt ( fos:	SPORT MEMB Gray-Pink, Siliferrou	ER) massive, <u>s Dolo</u> sto	uniform		DRY	

Front		als		2 <sup>OF</sup> 2		
	ier Stone		JOB No	JOB No. 63035.001		
BLOWS ON SAMPLE SPOON PER 6.	UNIFIED CLASSI- FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS		
			(DECEW MEMBER) Same; with small veins of white crystalline calcite	DRY		
	·		Same;	DRY Groundwater enter bore hole.		
			Torat Debru of Rollid 6 30.0,			
	BLOWS OI SAMPLE SPOON PER 6"	BLOWS ON SAMPLE SPOON PER 6. UNIFIED CLASSI-FICATION	BLOWS OF SAMPLE SAMPLE SPRONE	GEOLOGIC DESCRIPTION  + 23.0  Dark Gray Dolostone, fine crystalline, No Fossils noted.  (DECEW MEMBER)  Same; with small veins of white crystalline calcite		

#### APPENDIX D

Monitoring Well Completion Logs EHC-5 to EHC-6



Project Niagara Materials

Client Frontier Stone

Project No. 63035.001

Date Drilled 11/12/91

Date Developed

WELL CONSTRUCTION DETAIL	
M.P. EL. 595.52 GR. EL. 592.76	InspectorL. Williams  Drilling ContractorNothnagle Drilling  Type of WellMonitoring Well  Static Water LevelDRYDate11/12/91
CEMENT/ BENTONITE SEAL	Measuring Point (M.P.) Grade  Total Depth of Well 35.0'  Total Depth of Boring 35.9'  Drilling Method  Type Air Rotary Diameter 6%"  Casing N/A
BENTONITE SEAL -23.0'	Weight N/A Fall N/A Interval 5
FILTER PACK	Material PVC Diameter 2" Length 27.0 Joint Type flush screer  Screen Material PVC Diameter 2" Slot Size 10 Interval 25.0 - 35.0' Stratigraphic Unit Screened
SCREEN	Filter Pack Sand X Gravel Natural Grade 225 1bs Amount 1525 1bs Interval 23.0 - 35.9
BENTONITE —35.0'  BENTONITE —35.5'  -N/A	Seal(s) Type Type Type Type Type Type Casing  Casing  Sentonite  Interval  Interval  Interval  Interval  Interval  No  Notes:
NOT TO SCALE	

# ENVIRONMENTAL HYDROGEOLOGY CORPORATION RTE.146 CLIFTON PARK, N.Y. 371-7621

Project Niagara Materials

Client Frontier Stone

Project No. 63035.001

Date Drilled 11/12/91

Date Developed

WELL CONSTRUCTION DETAIL	
M.P. EL. 594.23  GR. EL. 592.17  CEMENT/	InspectorL. Williams  Drilling ContractorNothnagle Drilling  Type of WellMonitoring Well  Static Water Level _35.38'Date11/12/91  Measuring Point (M.P.)Grade  Total Depth of Well35.0'  Total Depth of Boring36.6'
BENTONITE SEAL	Drilling Method Type <u>Air Rotary</u> Diameter <u>6場"</u> Casing <u>N/A</u>
-21.0'	Sample Method  Type Grab  Weight $N/A$ Interval $5^{1}$
BENTONITE —23.0' —25.0'	D10 011
FILTER PACK	Screen  Material <u>PVC</u> Diameter <u>2"</u> Slot Size <u>10</u> Interval <u>25.0 - 35.0!</u> Stratigraphic Unit Screened
SCREEN	Filter Pack Sand X Gravel Natural Grade 0.0 Amount 225 1bs Interval 23.0 - 36.6'
-35.0' BENTONITE -36.0'	Seal(s)  Type Bentonite   Interval   21.0 - 23.0'    Type Bentonite Cement   Interval   21.0 - 0.0    Type   Interval   I
NOT TO SCALE	Notes:

## APPENDIX E Soil Sampling Excavation Logs

Soil			Depth	HNu	
Sampling Point	Date	Time	Inches	Pid ppm	Soil Description
					BOIL DEBCLIPTION
L1A1	11/21/91	6:40	12	0.0	Br m-f S a Cy\$
L1A2	11/21/91	6:47	*8	0.0	Br m-f S a Cy\$
L1A3	11/21/91	6:51	*8	0.0	Br m-f S a Cy\$
L1B1	11/21/91	6:56	*8	0.0	Br m-f S a Cy\$
L1B2	11/21/91	6:58	*7	0.0	Br m S a Cy\$
L1B3	11/21/91	7:00	10	0.0	Br f S
L1C1	11/21/91	7:06	*6	0.0	Br f S a \$
L1C2	11/21/91	7:09	*2	0.0	Br f S a SyC
L1C3	11/21/91	7:12	*6	0.0	Br f S a \$yC
					· ·
L2A1	11/21/91	5:45	*7	0.0	Or Br f S, s \$
L2A2	11/21/91	5:50	*8	0.0	Br Cy\$
L2A3	11/21/91	6:03	*5	0.0	Br f S a \$YC
L2B1	11/21/91	5:30	*4	0.0	Br f S
L2B2	11/21/91	5:32	*8	0.0	Br f S
L2B3	11/21/91	5:38	*8	0.0	Br f S
L2C1	11/21/91	5:12	*3	0.0	Br f S
L2C2	11/21/91	5:15	*8	0.0	Br f S
L2C3	11/21/91	5:17	*3	0.0	Lt Br f S
L3A1	11/21/91	4:28	*3	0.0	Br f S, s Cy\$
L3A2	11/21/91	4:26	*3	0.0	Br f S, s Cy\$
L3A3	11/21/91	4:31	*3.5	0.0	Br f S, s Cy\$
L3B1	11/21/91	4:42	*4	0.0	Br f S, s Cy\$
L3B2	11/21/91	4:46	*2	0.0	Br f S, s Cy\$
L3B3	11/21/91	4:48	*2	0.0	Br f S, s Cy\$
L3C1	11/21/91	4:56	*3	0.0	Br f S, a Cy\$, t organics
L3C2	11/21/91	4:58	*4.5	0.0	Br f S, a Cy\$, 1 organics
L3C3	11/21/91	5:00	*4.5	0.0	Br f S, s Cy\$, 1 organics
RRE1A1	11/21/91	6:25	12	0.0	Br f G a, f-c S, s \$yC, (fill)
RRE1A2	11/21/91	6:38	8	0.0	Br f G a, f-c S, s \$yC, (fill)
RRE1A3	11/21/91	6:50	10	0.0	Br f G a, f-c S, s \$yC, (fill)
AGST1A1	11/21/91	5:57	12	0.0	Br f-m S, lt Cy\$, t f G
AGST1A2	11/21/91	5:45	10	0.0	Br f-m S, lt Cy\$, t f G
AGST1A3	11/21/91	5:51	10	0.0	Br f-m S, lt Cy\$, t f G
AGST2A1	11/21/91	6:11	10	0.0	Br f-m S, lt Cy\$, t f G
AGST2A2	11/21/91	6:22	*7	0.0	Br f-m S, lt Cy\$, t f G
AGST2A3	11/21/91	6:17	12	0.0	Br f-m S, lt Cy\$, t f G
* - 1					
Background A1	11/21/91	8:00	*7	0.0	Br f S, s Cy\$
Background A2	11/21/91	7:52	*8	0.0	Br f S, s Cy\$
Background A3	11/21/91	7:55	*7	0.0	Br f S, s Cy\$

<sup>\*</sup> Sampling depth was limited due to the presence of shallow bedrock.

# APPENDIX F Field Well Development Forms

DEC HW \$ 932073							
Site: Niggra Materials/Frontin Stock	Job :	•: <u>630</u>	35.00	/			
Well 4: <u>E7/C-2</u>	Date:		1/22/9	/			
	Perso	nnel: <u></u>	. WILLIA	ms		-	
		C	Ba 5/1.	W			
						···	
Well Information			_				
Screened Interval: 38.4 - 28.4 [1]	Riser	Same? _					
Stratigraphic Unit: lockport line stone Comments:		P	17/21/3	(2.14)	3~10,	45al	
oommonro.		9					
Depth to Water: 17:10							
Sand/Silt Accumulation? Well Water Volume:							
to, 3.47 5al							
Development Technique		Dedic					
Bailer 🔀	Type:	PUC					
Lift Pump  Air Lift							
Submers.	FIOW	Rate:					
Well-dedicated equipment: 1/E5			,				
Decontamination procedures:  alconox wash, distilled water	-1150	, ment	thanol	wash	-		
Observations							
Time began:	Time	finished:	•			· Tac !	<b>→</b> /
Water Characteristics - Beginning:		_Gal	Time	Ph	Cond	/ 32	1015
Color -		0,5		1	1750	1.	gr.
Turbitity -		5	4.304		4850		Services .
Odor None		. 0	71me 2:05 5:05	70	5100	100	40
Temperature -				CO Presidente con			
Water Characteristics - End:				oggeneración de la companyación de			
Color - v. It Gray							
Turbidity - 40				AND THE PERSON OF THE PERSON O			
Odor - Nove			harden de la companya	- Paris de la companya de la company			
Temperature - 1019			Company of the Compan				
Notes:			The state of the s		-		
					1	1	1

DEC HWA 932073 Ite: Frontier Stone/Nigger	Materia	·\$ 63	3035.	20 /			
Well #: <u>EHC - 3</u>			121/9			_	
			willing		****		
			Babi				
Well Information			2				
Screen I.D.: 2 19 Screened interval: 105 to 95' Stratigraphic Unit: Rochester Shale Comments:	Riser	Same?	7 70	in the second		<del></del>	
Depth to Water: 37.12 Sand/Silt Accumulation? Well Water Volume:							
6-198 X 2163-110	4 4 4 1						
<u>Development Technique</u>	**		,				
Bailer \( \sum \) Lift Pump \( \sum \) Air Lift \( \sum \)	Type:	Dedic	a ted	PUC			
Air Lift Submers.	Flow	Rate:					
Well-dedicated equipment: YES							
Decontamination procedures: Alconox wash, Distilled wate	r rins	e, me	thenol	rins	<u>-</u>		
Observations							
Time began: 1050 1200 Volume removed:			3152				DTS
Water Characteristics - Beginning:  Color - Dark gray  Turbitity - Hevay  Odor - Temperature - 10,50c  Water Characteristics - End:		e . 1	Time	Ph.	Cond	Toc	Tous
Color - 10 12		<u> </u>	17111	and the same	550	Ince	>200
Color - Dark gray Turbitity - Hevan	construction to		12.0		_	10.5	
Turbitity - Hevay  Odor - Tamperature - 1 - 2	130	:ð	1232	4,0	5 40	10,7	
Temperature - 10,50	, عت	:5	1557	হ,৩	600	10, )	
Water Characteristics - End:	7	ైక	333	7,25	610	10.6	
Color - Say / Or		25	1355	7,0	ļ	10.3	i
Turbidity - Medi.					590	1	l
Odor - Shank		20	421	7.0	540	100	
Temperature - 1000 F		, 31   32	14: 2		1	1-	110
Notes:	ـــــــــــــــــــــــــــــــــــــ	3 S	14 55	7,0	580	· · · · · · · · · · · · · · · · · · ·	10
Saspended moviel in a					J -	10,3	87
decrease of volume x		\$					
approach to be bacture	1 = 1/12						

DEC HW > 932073	
SIte: Niggara Materials/Frontesto	e Job *: 63035,001
Well #: EHC-4	Date: 11/21/91
	Personnel: L. W. Iliams
	C-Bablin
Well Information	•
Screen I.D.: 2 in Screened Interval: 93 to 103 ft Stratigraphic Unit: Rockstor Shake Comments:	Riser Same? <u>212</u>
Depth to Water: 37.70′ Sand/Silt Accumulation? Well Water Volume: 65.3′x 0.76	53 = 10.64 g d
Development Technique	
Baller \(\sum_{\text{\tincr{\text{\te}\tint{\text{\ti}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texit{\texi\titt{\text{\texi\text{\text{\texit{\texi\tint{\texit{\texit{\texi}\titt{\texitit}}\text{\texitt{\texit{\texi{\texi{\tet	Type: Dedicated Dic baile
Air Lift Submers	Flow Rate:
Well-dedicated equipment: 1/25	
Decontamination procedures:  Alconox wash, Distilled water	rinse methanol rinse
Observations	
Time began: 7:00 Volume removed: 230 gallors	Time finished: $10:5^{-5}$
Water Characteristics - Beginning:	Gal time PH Cond To Turs
color - del gray	5 9:25 9.5 7200 10 May
Turbitity - mod	10 = -1 - 0   000 -   95   000
odor - yes (small like landfill)	) in the 13
Temperature - 10 c/11pH /4530 Am	
Water Characteristics - End:	25 10:25 7.0 Cie
color - H. grey	
Turbidity - 19 ( shightly turbed)	
· Odor - Anth.	
Temperature - 9.4°C/7.0 +1/7990	
Notes:	c. / nuc

# APPENDIX G

Analytical TCL Groundwater Quality Results

	15.0	ALYTICAL LARS, LTD. Century Hill Dr.		
		tham, NY 12110		
		%-7100 Fax: (518)786-7139		
		nry Analysis Report		
		pared for: EHC		···
		Number: 91.01401		
		Number: 911122R		
		24 DEC 1991		
CONTACT OF STATE VALUE				
PORTANT - PLEASE NOTE				
1. All results are calculated	on a dry weight basis	s unless otherwise specified.		
2. PQL = Practical Quantitation				
3. A result with a "D" means	that the result was "L	Setected below the Practical	Quantitation Limit (PGL), but	<del></del>
above the Method Detection	LIBIT (MUL).			<u></u>
	H-MI-			
	1444			
	***************************************			
	<u> </u>			
				······
	William Control Contro			
				<del></del>
1				
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			· · · · · · · · · · · · · · · · · · ·	
				***************************************
RTIFICATIONS:			. 019	12

EHC			CTM PRO	JECT #: 91.	01401
900 ROUTE 146					
CLIFTON PARK NY 120	55				
	William William Town The Transfer of the Trans		CTM Tas	k #: 911122	
Attention: LAURIE WILLIAMS/B	DB PASS				
Purchase Order Number: 63055			CTM Sag	ple No: 911	122R 07
Date Sampled: 11/22/91 Time	: 8:20 AM	·	Date Re	ceived: 11/6	22/91
Sampled By : BABLIN				ion Method:	COMPOSITE
Sample Id: EHC-1			<u>Matrix:</u>	WATER	
Location : FRONTIER STONE/NI	AGARA MAT.		Hiller on the second of the se	<del>v</del>	
Parameters and Standard Metho	odology Used	Results	POL.	Unit	Analyst Reference
TARGET COMPOUND LIST VOLATIL	<u>S</u>	COMPLETED			6CD 2:3 11/26
acid diseston - Furnace	SN-846 3020	COMPLETED	····		D8:95 12/3
CHLOROMETHANE	SH-846 METHOD 8240	NO NO	10	MCG/L	MCD 2:3 11/26
MANGANESE	ICP, EPA METHOD 200.7	1,740	10.0	MC6/L	A4:18 12/11
VINYL CHLORIDE	SN-846 METHOD 8240	ND NO	10	MCG/L	MCD 2:3 11/26
BRONOMETHANE	SH-846 METHOD 8240	D	10	MCS/L	MCD 2:3 11/26
CHLOROETHANE	SN-846 METHOD 8240	<u> </u>	10	MCG/L	MCD 2:3 11/26
1,1-DICHLOROETHANE	SH-846 METHOD 8240		_5	MC6/L	MCD 2:3 11/26
METHYLENE CHLORIDE	SH-846 NETHOD 8240	D COMPA ETER	5	MC6/L	MCD 2:3 11/26
MERCURY DISESTION - ACLIEDUS	•	COMPLETER	=	MOO 11	D8:104 12/5
TRANS 1,2-DICHLOROETHENE CYANIDE, TOTAL W/ DISTILLATIO	SW-846 METHOD 8240	D NED	5	MCG/L	MCD 2:3 11/26
CIS 1,2-DICHLORDETHENE	SH-846 METHOD 8240	ND ND	0.01 5	MG/L MCG/L	JOC 12/3 GCD 2:3 11/26
1.1-DICHLOROETHENE	SW-846 METHOD 8240	<del>10</del>	_ ე 5	MC6/L	MCD 2:3 11/26
CHLOROFORM	SW-846 METHOD 8240	ON ON	 5	MCG/L	MCD 2:3 11/26
1.1.1-TRICHLORDETHANE	SW-846 METHOD 8240	ND ND	· 5	MCS/L	MCD 2:3 11/26
CARBON TETRACHLORIDE	SM-846 METHOD 8240	ND ND	<del></del>	MCG/L	MCD 2:3 11/26
BENZENE	SN-846 METHOD 8240	ND ND	5	MCG/L	MCD 2:3 11/26
1,2-DICHLOROETHANE	SH-846 METHOD 8240	NO	5	MCG/L	MCD 2:3 11/26
TRICHLOROETHENE	SN-846 METHOD 8240	NO	5	MCS/L	6CD 2:3 11/26
1,2-DICHLOROPROPANE	SW-846 METHOD 8240	D	5	MCG/L	SCD 2:3 11/26
BROMODICHLOROMETHANE	SM-846 METHOD 8240	NO NO	5	MCG/L	GCD 2:3 11/26
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	ND ND	5	MCG/L	6CD 2:3 11/26
TOLUENE	SW-846 METHOD 8240	ND	5	MCG/L	6CD 2:3 11/26
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	D	5	MCG/L	6CD 2:3 11/26
1,1,2-TRICHLORDETHANE	SW-846 METHOD 8240	ND ND	5	MCG/L	GCD 2:3 11/26
TETRACHLOROETHENE	SN-846 NETHOD 8240	ND	5	MCG/L	6CD 2:3 11/26
DIBROHOCHLOROMETHANE	SH-846 METHOD 8240	<u>00</u>	5	MCS/L	GCD 2:3 11/26
CHLOROBENZENE	SH-846 NETHOD 8240	<u> </u>	5	MCS/L	GCD 2:3 11/26
CYANIDE DISTILLATION	STD. METH. 15TH ED. 412B	COMPLETED		1455 A	EP 11/25
ETHYLBENZENE COMMONDO	SM-846 METHOD 8240	ND ND	5	MCS/L	GCD 2:3 11/26
Bromoform Extraction for TCL B/N	SN-846 NETHOD 8240	NO EXTRACTER	5	MCG/L	6CD 2:3 11/26
1,1,2,2-TETRACHLOROETHANE	SM-846 METHOD 8240	EXTRACTED	E	MCC /I	DO 11/26
EXTRACTION FOR TCL - ACIDS	ON OTO REIDUU OCTV	ND Extracted	5	MCG/L	6CB 2:3 11/26
STYRENE	SN-846 METHOD 8240	B.	5	HCG/L	00 11/26 6CD 2:3 11/26
w 1 + 1 May 2 May	ON OTO INCIDIOU DETO	<u> </u>	J	nco/L	OCD E13 11/E0
	( CONTINUES ON NEXT PAGE )				
REMARKS:					
Annual Adams and the state of t					

01935

HC		······································	CTM PRO	JECT #: 91.	01401
900 ROUTE 146 CLIFTON PARK NY 1206	· ·			····	
CERTOR PAIN IN IEVE	~		CTM Tack	< <b>#:</b> 911122	B
Attention: LAURIE WILLIAMS/BC	NA PASS		CIR Idsi	** 7111 <u>cc</u>	3
TO CONTRACT WHEN THE PROPERTY AND A	70 (1100)				
Purchase Order Number: 63055.	.001		CTM Sagr	le No: 911	1228 07
Date Sampled: 11/22/91 Time:				eived: 11/	
Sampled By : BABLIN				ion Method:	· · · · · · · · · · · · · · · · · · ·
Sample Id: EHC-1		· · · · · · · · · · · · · · · · · · ·	Matrix:		
Location : FRONTIER STONE/NIA	AGARA MAT.				
Parameters and Standard Metho	odology Used	Results	PQL	Unit	Analyst Reference
				***************************************	
	( CONTINUED FROM PREVIOUS PAGE )				
A CETTALE	OU DAY METHING COSA		4.6	WAS 11	758 8 B 111 B
ACETONE	SW-846 METHOD 8240	D	10	MC6/L	SCD 2:3 11/26
CARBON DISULFIDE VINYL ACETATE	SN-846 METHOD 8240 SN-846 METHOD 8240	ND ND	5 10	MCG/L	GCD 2:3 11/26
EXTRACTION FOR TCL PEST/PCB			10	MC6/L	6CD 2:3 11/26
2-HEXANONE	EPA METHOD 8080 SN-846 METHOD 8240	EXTRACTED ND	10	MCG/L	DO 11/27 6CD 2:3 11/26
(YLENE (TOTAL)	SW-846 METHOD 8240	ND ND	5	MCS/L	GCD 2:3 11/26
HETHYL-2-PENTANONE (MIBK)	SH-846 METHOD 8240	NB	10	MCG/L	GCD 2:3 11/26
E-BUTANONE (MEK)	SW-846 METHOD 8240	מא	10	MCG/L	6CD 2:3 11/26
SODIUM	EPA METHODS, 1979.273.1	118,000	1,000	MCG/L	B5:39 12/11
TARGET COMPOUND LIST	BASE/NEUTRAL/ACID EXTRACTABLES	COMPLETED			CM L:99 12/16
NICKEL	ICP, EPA METHOD 200.7	ND	30.0	MCG/L	A4:18 12/11
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	D	10	MCG/L	CM L:103 12/19
BIS-(2-CHLOROETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:99 12/16
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	NO	10	MCG/L	CM L:103 12/19
,3-DICHLOROBENZENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND OM	10	MCG/L	CM L:99 12/16
,4-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:99 12/16
ENZYL ALCOHOL	SW-846 METHOD 8270 BASE/NEUTRALS	ND.	50	MCG/L	CM L:99 12/16
,2-DICHLOROBENZENE	SN-846 METHOD 8270 BASE/NEUTRALS	NO	10	MCG/L	CM L:99 12/16
P-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	NO	10	MC6/L	CM L:99 12/16
	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCG/L	CH L:99 12/16
HETHYLPHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	ND ND	10	MCS/L	CM L:99 12/16
H-NITROSO-DIPROPYLAMINE	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCG/L	CM L:99 12/16
EXACHLORDETHANE ITTROBENZENE	SN-846 METHOD 8270 BASE/NEUTRALS SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCG/L MCG/L	CH L:99 12/16 CH L:99 12/16
SOPHORONE	SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCS/L	CM L:99 12/16
-NITROPHENOL	SH-946 METHOD 8270 ACID EXTRACTABLES	ND ND	10	HC6/L	CM L:99 12/16
4-DINETHYLPHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCS/L	CM L:99 12/16
ENZOIC AICD	SM-846 METHOD 8270 BASE/NEUTRALS	ND ND	50	MCG/L	CM L:99 12/16
	SN-846 METHOD 8270 BASE/NEUTRALS	ND	10	MC6/L	CH L:99 12/16
4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/L	CH L:99 12/16
,2,4-TRICHLOROBENZENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:99 12/16
HAPHTHALENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:99 12/16
-CHLOROANILINE	SN-946 METHOD 8270 BASE/NEUTRALS	ND	20	MCG/L	CM L:99 12/16
EXACHLOROBUTADIENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:99 12/16
	( CONTINUES ON NEXT PAGE )				

	CTM Task  CTM Sampl Date Rece	ET #: 91.0 #: 9111228 #: 9111228 #: 9111228 #: 9111228	.22R 07
	CTM Sampl Date Rece Collection	e No: 9111	22R 07
	CTM Sampl Date Rece Collection	e No: 9111	22R 07
	CTM Sampl Date Rece Collection	e No: 9111	22R 07
	Date Rece Collection	ived: 11/2	
	Date Rece Collection	ived: 11/2	
	Date Rece Collection	ived: 11/2	
	Collectio		.C/ 31
		ATER	
Results	PQL_	Unit	Analyst Reference
D	20	MCG/L	CM L:99 12/16
0	10	MCG/L	CH L:99 12/16
<u>D</u>	_10	MCG/L	CM L:99 12/16
0	10	MCG/L	CH L:99 12/16
<u> </u>	10	MCS/L	CH L:99 12/16
0	50	MCG/L	CM L:99 12/16
Ω N		MCG/L	CM L:99 12/16 CM L:99 12/16
U	10		
		MCG/L	CH L:99 12/16
D D	50 10	MCG/L MCG/L	CM L:99 12/16 CM L:99 12/16
1	50	MCG/L	CM L:99 12/16
			CH L:99 12/16
			CM L:99 12/16
			CH L:99 12/16
			CM L:99 12/16
	50	MCG/L	CH L:99 12/16
)	10	MCG/L	CM L:99 12/16
	10	MCG/L	CM L:99 12/16
)	10	MCG/L	CM L:99 12/16
)	50	MCG/L	CM L:99 12/16
)	10	MC6/L	CM L:99 12/16
3	10	MCG/L	CM L:99 12/16
)	10	MCG/L	CM L:99 12/16
	10	HCG/L	CH L:99 12/16
	10	MCS/L	CH L:99 12/16
	10	MCG/L	CH L:99 12/16
		MCS/L	CH L:99 12/16
			CH L:99 12/16
			CH L:99 12/16
)	10	MC6/L	CH L:99 12/16
	D D D D D D D D D D D D D D D D D D D	D 10	D 10 MCG/L

JK			CTM PRO	JECT #: 91.	01401
900 ROUTE 146	E		·····		
CLIFTON PARK NY 1206	<b>5</b>		OTH T-	. 4. 044400	
Vitantians   AUDIC MILLIAMO/DE	ID DACC		LIR IASI	* #: 911122	X
Attention: LAURIE WILLIAMS/BO	D FROS				
Purchase Order Number: 63055.	001		CTM Sage	ie No: 911	122R 07
Date Sampled: 11/22/91 Time:	and the second s			eived: 11/	
Sampled By : BABLIN				on Method:	
Sample Id: EHC-1			Matrix:	WATER	
ocation : FRONTIER STONE/NIA	GARA MAT.				·
Parameters and Standard Metho	dology Used	Results	PQL	Unit	Analyst Reference
	/ CONTINUED COME COCUTORS DAGE )		<del></del>	***************************************	
	( CONTINUED FROM PREVIOUS PAGE )		·····		
DI-N-OCTYL PHTHALATE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	10	MC6/L	CM L:99 12/16
SENZO (B) FLUORANTHENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND ON	10	MCG/L	CM L:99 12/16
ENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	OJA O	10	MC6/L	CM L:99 12/16
Benzo(a) Pyrene	SM-846 METHOD 8270 BASE/NEUTRALS	ND GN	10	MCG/L	CM L:99 12/16
NDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	DA D	10	MCG/L	CM L:99 12/16
) I BENZO- (A , H) - ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:99 12/16
DENZO-(6,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	<b>ON</b>	10	MCG/L	CM L:99 12/16
4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND ON	10	MCG/L	CM L:99 12/16
TARGET COMPOUND LIST	PESTICIDES AND PCB'S	COMPLETED			GCCLP A:22 12/7
ALPHA-BHC	EPA METHOD 8080	ND	.05	MC6/L	GCCLP A:22 12/7
ETA-BHC	EPA METHOD 8080	<u> </u>	.05	MCS/L	6CCLP A:22 12/7
DELTA-BHC	EPA METHOD 8080	NO NO	.05 ~=	MCG/L	GCCLP A:22 12/7
SAIMA-BHC	EPA METHOD 8080	םא מא	.05	MCG/L	GCCLP A:22 12/7 GCCLP A:22 12/7
HEPTACHLOR NLDRIN	EPA METHOD 8080 EPA METHOD 8080	ND ND	.05 .05	MCG/L MCG/L	6CCLP A:22 12/7
EPTACHLOR EPOXIDE	EPA METHOD 8080	ND ND	.05	MCG/L	GCCLP A:22 12/7
ENDOSULFAN I	EPA METHOD 8080	ND ND	.05	MC6/L	6CCLP A:22 12/7
DIELDRIN	EPA METHOD 8080	ND	.10	MCS/L	GCCLP A:22 12/7
1,4-DDE	EPA METHOD 8080	ND	.10	MC6/L	SCOLP A:22 12/7
NDRIN	EPA METHOD 8080	ND	.10	MCS/L	GCCLP A:22 12/7
NDOSULFAN II	EPA METHOD 8080	ND	.10	MCG/L	GCCLP A:22 12/7
1,4-DDD	EPA METHOD 8080	ND	.10	MC6/L	GCCLP A:22 12/7
ENDOSULFAN SULFATE	EPA METHOD 8080	.052J	.10	MC6/L	6CCLP A:22 12/7
1,4-DDT	EPA METHOD 8080	ND	.10	MCG/L	GCCLP A:22 12/7
ETHOXYCHLOR	EPA METHOD 8080	.0291	.50	MC6/L	600LP A:22 12/7
ENDRIN KETONE	EPA METHOD 8080	ND	.10	MCS/L	GCCLP A:22 12/7
LPHA-CHLORDANE	EPA METHOD 8080	ND ON	.50	MCG/L	6CCLP A:22 12/7
SANNA-CHLORDANE	EPA METHOD 8080	<u>D</u>	.50	MCS/L	GCCLP A:22 12/7
TOXAPHENE	EPA METHOD 8080	ND ND	1.0	MC6/L	600LP A:22 12/7
*CB-1016	EPA METHOD 8080	<u>ND</u>	.50	MCG/L	GCCLP A:22 12/7
PCB-1221	EPA METHOD 8080	MD MD	.50	MCS/L	6CCLP A:22 12/7
PCB-1232	EPA METHOD 8080	ND ND	.50 .50	MC6/L MC6/L	6CCLP A:22 12/7 6CCLP A:22 12/7
*CB-1242 *CB-1248	EPA METHOD 8080 EPA METHOD 8080	ND ND	.50	MCG/L	GCCLP A:22 12/7
'LD' 1 <b>C40</b>	EFR REITUU OVOV	im.	130	IRO/L	OWG MICE 16/1
	( CONTINUES ON NEXT PAGE )				
	- water and tweet them !				
RENARKS:					

PASS  1 :20 AM  RA MAT.		CTM Samp	#: 911122R	<b>L</b>			
1 :20 AH		CTM Samp		<b>L</b>			
1 :20 AH		CTM Samp					
:20 AM			In New Otta				
:20 AM			IE NO: YIII	228 07			
			eived: 11/2				
RA MAT.		Collection Method: COMPOSITE					
RA MAT.		Matrix:	WATER				
logy Used	Results	PQL	Unit	Analyst Reference			
( CONTINUED FROM PREVIOUS PAGE )							
PA METHOD 8080	ND ND	1.0	MC6/L	6001P A:22 12/7			
PA METHOD 8080	ND ND	1.0	MCS/L	GCCLP A:22 12/7			
CP. EPA METHOD 200.7	306	500	MC6/L	A4:18 12/11			
CP, EPA METHOD 200.7	NO	60.0	MCG/L	A4:18 12/11			
CP. EPA METHOD 200.7	ND	50.0	MCG/L	A4:18 12/11			
CP, EPA METHOD 200.7	NO	5.0	MCG/L	A4:18 12/11			
CP, EPA METHOD 200.7	ND ND	5.0	MCG/L	A4:18 12/11			
CP, EPA METHOD 200.7	153,000	200	MCG/L	A4:23 12/17			
CP, EPA METHOD 200.7	סא	10.0	MCG/L	A4:18 12/11			
CP, EPA METHOD 200.7	<u> </u>	20.0	MCG/L	A4:18 12/11			
CP, EPA METHOD 200.7	ND	25.0	MC6/L	A4:19 12/12			
CP, EPA METHOD 200.7	050,1	100	MCG/L	A4:18 12/11			
CP, EPA METHOD 200.7	<u>58,200</u>	200	MCG/L	A4:18 12/11			
PA METHODS, 1979, 245.1	ND	2000.0	MG/L	C4:76 12/11			
PA METHODS, 1979.258.1	4,590	1,000	MCS/L	R5:35 12/10 A4:18 12/11			
				A4:18 12/11			
				A4:19 12/12			
		2010	1849/3	D8:103 12/5			
		4.0	MCS/L	HG A:722 12/13			
				HG A:709 12/5			
PA METHODS,1979.239.2	4.5	4.0	MCG/L	H6 A:720 12/13			
PA METHODS,1979.270.2	NO	10.0	MC6/L	HS A:713 12/10			
TD. METH. 15TH ED.423	7.0		SUE19oC	CC 12/4			
				01938			
	LEGEND: ( = LESS THAN			ID = NOT DETECTED ICS/L=PP8, NCG/6=PPM			
	CP, EPA METHOD 200.7 CP, EPA METHOD 200.7 CP, EPA METHOD 200.7 I-846 3010 PA METHODS, 1979.206.2 PA METHODS,1979.279.2 PA METHODS,1979.239.2 PA METHODS,1979.239.2	CP, EPA METHOD 200.7  CP, EPA METHOD 200.7  CP, EPA METHOD 200.7  CP, EPA METHOD 200.7  216  M-846 3010  COMPLETED  PA METHODS, 1979.206.2  PA METHODS, 1979.279.2  PA METHODS, 1979.239.2  PA METHODS, 1979.270.2  PA METHODS, 1979.270.2  TD. METH. 15TH ED.423  7.0	CP, EPA METHOD 200.7 ND 10.0 CP, EPA METHOD 200.7 20 20.0 CP, EPA METHOD 200.7 216 20.0 N=846 3010 COMPLETED PA METHODS, 1979.206.2 ND 4.0 PA METHODS, 1979.279.2 ND 10.0 PA METHODS, 1979.239.2 4.5 4.0 PA METHODS, 1979.270.2 ND 10.0	CP, EPA METHOD 200.7         ND         10.0         MCS/L           CP, EPA METHOD 200.7         20         20.0         MCS/L           CP, EPA METHOD 200.7         216         20.0         MCS/L           N=846 3010         COMPLETED           PA METHODS, 1979.206.2         ND         4.0         MCS/L           PA METHODS, 1979.279.2         ND         10.0         MCS/L           PA METHODS, 1979.239.2         4.5         4.0         MCS/L           PA METHODS, 1979.270.2         ND         10.0         MCS/L			

EHC	CTM PROJECT #: 91.01401
900 ROUTE 146	
CLIFTON PARK NY 12065	
	CTM Task #: 9111 <b>22R</b>
Attention: LAURIE WILLIAMS/BOB PASS	
Purchase Order Number: 63055.001	CTM Sample No: 911122R 08
Date Sampled: 11/22/91 Time: 9:30 AM	Date Received: 11/22/91
Sampled By : BABLIN	Collection Method: COMPOSITE
Sample Id: EHC-2	Matrix: WATER
Location : FRONTIER STONE/NIAGARA MAT.	

Parameters and Standard Metho	dology Used	Results	PQL	<u>Unit</u>	Analyst Reference	
ACID DIGESTON - FURNACE	SW-846 3020	COMPLETED		<u> </u>	D8:95 12/3	
TARGET COMPOUND LIST VOLATILE		COMPLETED			6CD 2:3 11/27	
CHLOROMETHANE	SW-846 METHOD 8240	ND	10	MCS/L	6CD 2:3 11/26	
MANGANESE	ICP, EPA METHOD 200.7	76.5	10.0	MCG/L	A4:18 12/11	
VINYL CHLORIDE	SW-846 METHOD 8240	ND	10	MC6/L	GCD 2:3 11/26	
BROHOMETHANE	SN-846 METHOD 8240	0	10	MC6/L	6CD 2:3 11/26	
CHLOROETHANE	SW-846 METHOD 8240	ND	10	MCG/L	6CD 2:3 11/26	
1,1-DICHLOROETHANE	SN-846 METHOD 8240	ND GR	5	MC6/L	6CD 2:3 11/26	
METHYLENE CHLORIDE	SM-846 METHOD 8240	. D	5	MCS/L	6CD 2:3 11/26	
MERCURY DIGESTION - AQUEDUS		COMPLETED			D8:104 12/5	
TRANS 1,2-DICHLORDETHENE	SW-846 METHOD 8240	MO	5	MCG/L	GCD 2:3 11/26	
CYANIDE, TOTAL W/ DISTILLATION		ND	0.01	MG/L	JOC 12/3	
CIS 1,2-DICHLOROETHENE	SW-846 METHOD 8240	ND	5	MCG/L	GCD 2:3 11/27	
1,1-DICHLORDETHENE	SN-846 METHOD 8240	ND	5	MCG/L	6CD 2:3 11/26	
CHLOROFORM	SW-846 METHOD 8240	ND	5	MCG/L	GCD 2:3 11/26	
1,1,1-TRICHLORDETHANE	SN-846 METHOD 8240	ND	5	MCS/L	SCD 2:3 11/27	
CARBON TETRACHLORIDE	SW-846 METHOD 8240	ND	5	MCG/L	GCD 2:3 11/27	
BENZENE	SN-846 METHOD 8240	ND ND	5	MCG/L	GCD 2:3 11/27	
1,2-DICHLOROETHANE	SW-846 METHOD 8240	ND	5	MCG/L	GCD 2:3 11/27	
TRICHLOROETHENE	SW-846 METHOD 8240	ND	5	MC6/L	6CD 2:3 11/27	
1,2-DICHLOROPROPANE	SW-846 METHOD 8240	NO	5	MCG/L	GCD 2:3 11/27	
BROMODICHLOROMETHANE	SH-846 METHOD 8240	ND	5	MC6/L	6CD 2:3 11/27	
TRANS-1,3-DICHLOROPROPENE	SH-846 NETHOD 8240	ND	5	MCG/L	6CD 2:3 11/27	
TOLUENE	SW-846 METHOD 8240	NO	5	MCG/L	GCD 2:3 11/27	
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	NO	5	MC6/L	GCD 2:3 11/27	
1,1,2-TRICHLORDETHANE	SM-846 METHOD 8240	NO	5	MCG/L	GCD 2:3 11/27	
TETRACHLOROETHENE	SW-846 METHOD 8240	ND	5	MCG/L	GCB 2:3 11/27	
IRON	ICP, EPA METHOD 200.7	830	100	MC6/L	A4:18 12/11	
DIBROMOCHLOROMETHANE	SW-846 METHOD 8240	ND	5	MCG/L	GCD 2:3 11/27	
CYANIDE DISTILLATION	STD. METH. 15TH ED. 412B	COMPLETED			P 11/25	
	SW-846 METHOD 8240	ND	5	MC6/L	GCD 2:3 11/27	
CHLOROBENZENE	SH-846 METHOD 8240	ND ND	5	MCS/L	6CD 2:3 11/27	
ETHYLBENZENE PROMOCOOM	SH-846 METHOD 8240	ND ON	5	MCG/L	GCD 2:3 11/27	
BROMOFORM  EVERACTION FOR TO 19 (N	SA UTO RETINU CETV	EXTRACTED			DO 11/26	
EXTRACTION FOR TCL B/N		EXTRACTED			DO 11/26	
EXTRACTION FOR TCL - ACIDS	SM-846 METHOD 8240	ND ND	5	MCG/L	6CD 2:3 11/27	
1,1,2,2-TETRACHLOROETHANE	בארכאס הבוחשה סבאר	1 <b>W</b>				

#### ( CONTINUES ON NEXT PAGE )

REMARKS:

EHC			CTM PRO:	ECT #: 91.	01401
900 ROUTE 146					
LIFTON PARK NY 1206	65				
		· · · · · · · · · · · · · · · · · · ·	CTM Tasi	<b>1:</b> 911122	R
Attention: LAURIE WILLIAMS/BO	OB PASS				
N					
Purchase Order Number: 63055.				le No: 911	
Date Sampled: 11/22/91 Time:	: 7:5V HT			eived: 11/	
Sampled By : BABLIN				on Method:	CURPUSITE
Gample Id: EHC—2 .ocation : FRONTIER STONE/NIA	SCADA MAT		Matrix:	MHIEK	
LOCALIDA : FRUMITER STURE/NIE	SZERVO LIETU.				
Parameters and Standard Metho	odology Used	Results	POL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE )			THE RESERVE THE PARTY OF THE PA	
STYRENE	SW-846 METHOD 8240	ND NO	5	MCG/L	6CD 2:3 11/27
acet <b>one</b>	SN-846 METHOD 8240	<u> </u>	10	MCG/L	6CD 2:3 11/27
CARBON DISULFIDE	SN-846 METHOD 8240	ND	5	MCG/L	GCB 2:3 11/27
VINYL ACETATE	SH-846 METHOD 8240	ND ON	10	MCG/L	GCD 2:3 11/27
XTRACTION FOR TCL PEST/PCB	EPA METHOD 8080	EXTRACTED			DO 11/27
2-HEXANONE	SN 846 METHOD 8240	ND	10	MCG/L_	GCD 2:3 11/27
KYLENE (TOTAL)	SH-846 METHOD 8240	<u>ND</u>		MCS/L	6CD 2:3 11/27
A-METHYL-2-PENTANONE (MIBK)	SW-846 NETHOD 8240	ND NO		MCG/L	GCD 2:3 11/27
2-BUTANONE (MEK)	SH-846 NETHOD 8240	ND	10	MCG/L	6CD 2:3 11/27
GODIUM TARGET COMPOUND LIST	EPA METHODS, 1979,273.1	1,460,000	1,000	MCG/L	85:39 12/11
PHENOL	BASE/NEUTRAL/ACID EXTRACTABLES	COMPLETED	٠	W00 //	CH L:99 12/16
VICKEL	SW-846 METHOD 8270 ACID EXTRACTABLES	D ND	10	MCG/L	CH L:99 12/16
BIS-(2-CHLOROETHYL)-ETHER	ICP, EPA METHOD 200.7 SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	30.0	MCG/L	A4:18 12/11
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	neu D	10 10	MCG/L	CH L:99 12/16
ERCURY	EPA METHODS.1979.245.1	ND	0.0005	MCS/L MG/L	CM L:99 12/16
.3-DICHLOROBENZENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCG/L	C4:76 12/11 CH L:99 12/16
1.4-DICHLOROBENZENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCG/L	CM L:99 12/16
ENZYL ALCOHOL	SN-846 METHOD 8270 BASE/NEUTRALS	NED NED	50	MCG/L	CM L:99 12/16
,2-DICHLOROBENZENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	NCG/L	CM L:99 12/16
HETHYLPHENOL	SN-846 METHOD 8270 ACID EXTRACTABLES	N8D	10	MCS/L	CM L:99 12/16
	SN-846 METHOD 8270 BASE/NEUTRALS	NED NED	10	MCG/L	CM L:99 12/16
-METHYLPHENOL	SN-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCS/L	CM L:99 12/16
HNITROSO-DIPROPYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:99 12/16
EXACHLOROETHANE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	10	HCG/L	CM L:99 12/16
ITROBENZENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CH L:99 12/16
SOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:99 12/16
-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	D	10	MCG/L	CM L:99 12/16
,4-DINETHYLPHENOL	SN-846 NETHOD 8270 ACID EXTRACTABLES	ND	10	MCG/L	CM L:99 12/16
ENZOIC AICD	SW-846 METHOD 8270 BASE/NEUTRALS	NO	50	MCG/L	CM L:99 12/16
	SN-846 METHOD 8270 BASE/NEUTRALS	<u>NO</u>	10	MCG/L	CM L:99 12/16
4-DICHLOROPHENOL	SM-846 METHOD 8270 ACID EXTRACTABLES	<u> </u>	10	HC6/L	CM L:99 12/16
,2,4-TRICHLOROBENZENE	SH-846 HETHOD 8270 BASE/NEUTRALS	ND .	10	MCG/L	CM L:99 12/16
APHTHALENE	SN-846 METHOD 8270 BASE/NEUTRALS	ON OR	10	MCG/L	CM L:99 12/16
	( CONTINUES ON NEXT PAGE )				
REMARKS:					
		***************************************			-

HC			CTH PRO	JECT #: 91.	01401
900 ROUTE 146					·
LIFTON PARK NY 1206	5		A+U =	g . A	
Attention: LAURIE WILLIAMS/BO	P PASS		UIM Tasi	<pre>*: 911122</pre>	K
Purchase Order Number: 63055.	001		CTM Same	nle No: 911:	122R 08
Date Sampled: 11/22/91 Time:	9:30 AM			eived: 11/a	
Sampled By : BABLIN			Collect	ion Method:	COMPOSITE
Sample Id: EHC-2			Matrix:	WATER	
Location : FRONTIER STONE/NIA	GARA MAT.				
Parameters and Standard Metho	dology Used	Results	PQL	Uni t	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE )		*		
1-CHLOROANILINE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	20	MCG/L	CM L:99 12/16
HEXACHLOROBUTADIENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CH L:99 12/16
4-CHLORO-3-METHYLPHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	NED CEM	20	MCG/L	CM L:99 12/16
2-METHYLNAPHTHALENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:99-12/16
HEXACHILOROCYCLOPENTADIENE	SM-846 METHOD 8270 BASE/NEUTRALS	ND.	10	MCG/L	CM L:99 12/16
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/L	CH L:99 12/16
-CHLORONAPTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	NO ON	10	MCS/L	CM L:99 12/16
-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	NO	50	MCG/L	CH L:99 12/16
DIMETHYL PHTHALATE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:99 12/16
acenaphthylene	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:99 12/16
2,6-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:99 12/16
3-NITROANILINE	SN-846 METHOD 8270 BASE/NEUTRALS	ND .	50	MCG/L	CM L:99 12/16
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCG/L	CH L:99 12/16
2,4-DINITROPHENOL	SN-846 METHOD 8270 ACID EXTRACTABLES	ND	50	MCG/L	CH L:99 12/16
1-NITROPHENOL	SN-846 METHOD 8270 ACID EXTRACTABLES	ND ND	10	MCG/L	CH L:99 12/16
DIBENZOFURAN	SH-846 METHOD 8270 BASE/NEUTRALS	ND NO	10	MCG/L	CM L:99 12/16
2,4-DINITROTOLUENE	SN-846 METHOD 8270 BASE/NEUTRALS	. NED	10	MCG/L	CM L:99 12/16
DIETHYL PHTHALATE	SH-846 METHOD 8270 BASE/NEUTRALS	ND NO	10	MCG/L	CM L:99 12/16
4-CHLOROPHENYL-PHENYL-ETHER	SN-846 METHOD 8270 BASE/NEUTRALS	ND NO	10	MCG/L	CM L:99 12/16
FLUORENE	SH-846 METHOD 8270 BASE/NEUTRALS	NØ	10	MCG/L	CM L:99 12/16
I-NITROANILINE	SH-846 METHOD 8270 BASE/NEUTRALS	NO NO	20	MCG/L	CM L:99 12/16
2-METHYL-4,6-DINITROPHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	ND NO	50	MCG/L	CM L:99 12/16
N-NITROSODIPHENYLAMINE N-BROMOPHENYL-PHENYL ETHER	SH-846 METHOD 8270 BASE/NEUTRALS SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MC6/L MC6/L	CH L:99 12/16 CH L:99 12/16
EXACHLOROBENZENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCG/L	CH L:99 12/16
PENTACHLOROPHENOL	SH-846 METHOD 8270 BRSE/NEUTRALS	ND ND	50	MCG/L	CH L:99 12/16
HENANTHRENE	SH-846 METHOD 8270 BASE/NEUTRALS	NØD	10	MCG/L	CM L:99 12/16
ANTHRACENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	HCG/L	CM L:99 12/16
DI -N-BUTYLPHTHALATE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	10	MC6/L	CM L:99 12/16
LUDRANTHENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:99 12/16 .
PYRENE	SN-846 NETHOD 8270 BASE/NEUTRALS	ND ON	10	MCS/L	CM L:99 12/16
BUTYL-BENZYL PHTHALATE	SN-046 NETHOD 8270 BASE/NEUTRALS	ND	10	MCS/L	CM L:99 12/16
3.3-DICHLOROBENZIDINE	SN-846 METHOD 8270 BASE/NEUTRALS	פא	50	MCS/L	CH L:99 12/16
BENZO(A) ANTHRACENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND ON	10	MCG/L	CH L:99 12/16
	( CONTINUES ON NEXT PAGE )				
REMARKS:		· · · · · · · · · · · · · · · · · · ·			
					01941

7 <b>·C</b>	(7/18)-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		CTM PRO	JECT #: 91.	01401
900 ROUTE 146					
CLIFTON PARK NY 1200	5				
			CTM Tas	k #: 911122	<b>1</b>
Attention: LAURIE WILLIAMS/B	DB PASS				
Purchase Order Number: 63055	.001		CTM Sam	ple No: 911	122R 08
Date Sampled: 11/22/91 Time:				ceived: 11/2	
Sampled By : BABLIN				ion Method:	
Sample Id: EHC-2			Matrix:		
Location : FRONTIER STONE/NIA	GARA MAT.				
Parameters and Standard Metho	dology Used	Results	PQL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE )				
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND.	10	MCG/L	CM L:99 12/16
	SW-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCG/L	CM L:99 12/16
DI-N-OCTYL PHTHALATE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:99 12/16
RENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCS/L	CM L:99 12/16
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MC6/L	CN L:99 12/16
BENZO(A) PYRENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CH L:99 12/16
INDENO - (1,2,3) - (C,D) -PYRENE	SM-846 METHOD 8270 BASE/NEUTRALS	ND.	10	NCG/L	CM L:99 12/16
DIBENZO- (A,H)-ANTHRACENE	SM-846 METHOD 8270 BASE/MEUTRALS	ND	10	NCG/L	CM L:99 12/16
SENZO-(6,H,I)-PERLYENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:99 12/16
4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/L	CH L:99 12/16
TARGET COMPOUND LIST	PESTICIDES AND PCB'S	COMPLETED			GCCLP A:22 12/7
ALPHA-BHC	EPA METHOD 8080	ON	.05	MCG/L	GCCLP A:22 12/7
XETA-BHC	EPA METHOD 8080	MD	.05	MCG/L	6CCLP A:22 12/7
DELTA-BHC	EPA METHOD 8080	ND	.05	HCG/L	GCCLP A:22 12/7
GAMMA-BHC	EPA METHOD 8080	QN	.05	MCG/L	6CCLP A:22 12/7
HEPTACHLOR	EPA METHOD 8080	ND	.05	MCG/L	GCCLP A:22 12/7
ALDRIN	EPA METHOD 8080	ND	.05	HCS/L	600LP A:22 12/7
HEPTACHLOR EPOXIDE	EPA METHOD 8080	ND	.05	MCG/L	GCCLP A:22 12/7
ENDOSULFAN I	EPA METHOD 8080	ND	.05	MC6/L	6CCLP A:22 12/7
DIELDRIN	EPA METHOD 8090	NO NO	0,10	MCG/L	GCCLP A:22 12/7
1,4-DBE	EPA METHOD 8080	ND ND	0.10	MCG/L	6CCLP A:22 12/7
ENDRIN ENDOSULFAN II	EPA METHOD 8080	<u> </u>	0.10	MCG/L	6CCLP A:22 12/7
1,4-DDD	EPA METHOD 8080	ND NO	0.10	MC6/L	GCCLP A:22 12/7
ENDOSULFAN SULFATE	EPA METHOD 8080 EPA METHOD 8080	NO OT I	0.10	MCG/L	GCCLP A:22 12/7
4-DDT	EPA METHOD 8080	.03J DM	0.10	MC6/L	6CCLP A:22 12/7
ETHOXYCHLOR	EPA METHOD 8080		0.10	MCG/L	GCCLP A:22 12/7
ENDRIN KETONE	EPA METHOD 8080	.06J ND	.50 .10	MCG/L MCG/L	6CCLP A:22 12/7
LPHA-CHLORDANE	EPA METHOD 8080	עא	.50	MC6/L	600LP A:22 12/7 600LP A:22 12/7
SANNA-CHLORDANE	EPA METHOD 8080	ND ND	.50	HCS/L	6CCLP A:22 12/7
OXAPHENE	EPA METHOD 8080	ND ND	1.0	MCG/L	6COLP A:22 12/7
PCB-1016	EPA METHOD 8080	ND	.50	MC6/L	GCCLP A:22 12/7
CB-1221	EPA METHOD 8080	ND ON	.50	MCS/L	6COLP A:22 12/7
CB-1232	EPA METHOD 8080	ND	.50	MC6/L	6CCLP A:22 12/7
	( CONTINUES ON NEXT PAGE )				
REMARKS:					
					01942

EHC			CTM PRO	JECT #: 91.0	01401
900 ROUTE 146			· · · · · · · · · · · · · · · · · · ·		
CLIFTON PARK NY 120	X65			***************************************	
			CTM Tasi	k <b>‡:</b> 9111225	}
Attention: LAURIE WILLIAMS/E	BOB PASS				
Purchase Order Number: 63055	5.001		CTM Sam	ole No: 9111	122R 08
Date Sampled: 11/22/91 Time		······································		ceived: 11/2	
Sampled By : BABLIN				ion Method:	
Sample Id: EHC-2			Matrix:		
Location : FRONTIER STONE/NI	AGARA MAT.				
Parameters and Standard Meth	oodology Used	Results	PQL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE	: 1			
°CB-1242	EPA METHOD 8080	ND	.50	MCG/L	GCCLP A:22 12/7
PCB-1248	EPA METHOD 8080	ND	.50	MCG/L	600LP A:22 12/7
PCB-1254	EPA METHOD 8080	ND NO	1.0	MC6/L	6COLP A:22 12/7
PCB-1260	EPA METHOD 8080	10	1.0	MCG/L	6CCLP A:22 12/7
ALUMINUM	ICP, EPA METHOD 200.7	405	500	MCG/L	A4:18 12/11
ANTIMONY	ICP, EPA METHOD 200.7	NO NO	60.0	MCG/L	A4:18 12/11
BARIUM	ICP, EPA METHOD 200.7	ND ND	50.0	MCS/L	A4:18 12/11
BERYLLIUM	ICP, EPA METHOD 200.7	<u> </u>	5.0	MCG/L	A4:18 12/11
CADMIUM	ICP, EPA METHOD 200.7	ND 267 000	5.0	MCG/L	A4:18 12/11
CALCIUM CHRONIUM	ICP, EPA METHOD 200.7	367,000 ND	200	MCG/L	A4:26 12/19
COBALT	ICP, EPA METHOD 200.7 ICP, EPA METHOD 200.7	MD MD	10.0	MC6/L MC6/L	A4:18 12/11
COPPER	ICP, EPA METHOD 200.7	ND ND	20.0 25.0	MCS/L	A4:18 12/11 A4:19 12/12
1AGNESIUM	ICP, EPA METHOD 200.7	129,000	200	MCG/L	A4:18 12/11
POTASSIUM	EPA METHODS, 1979.258.1	42,500	1,000	HC6/L	85:35 12/10
BILVER	ICP, EPA METHOD 200.7	ND ND	10.0	MCG/L	A4:18 12/11
/ANADIUM	ICP, EPA METHOD 200.7	25.1	20.0	MC6/L	A4:18 12/11
ZINC	ICP, EPA METHOD 200.7	NO	20.0	MCS/L	A4:19 12/12
ACID DISESTION - FLAME/ICP	SN-846 3010	COMPLETED			D8:103 12/5
ARSENIC	EPA METHODS, 1979.206.2	ND	4.0	MCG/L	HG A:723 12/14
THALL IUM	EPA METHODS,1979.279.2	NÐ .	10.0	MG/L	HS A:709 12/5
EAD	EPA METHODS,1979.239.2	ND	4.0	MCG/L	HG A:720 12/13
ELENIUM	EPA METHODS,1979.270.2	NO	10.0	MCG/L	HG A:713 12/10
<b>H</b>	STD. HETH. 15TH ED.423	7.5		SUE17oC	CC 12/4
REMARKS:					01943
		LESEND: ( = LESS THAN MG/KG=PPM, MC D = RESULT IS	S/KG=PPB,	HG/L=PPH, H	D = NOT DETECTED CG/L=PPB, NCG/G=PPH

EHC	CTM PROJECT #: 91.01401				
900 ROUTE 146					
CLIFTON PARK NY 1206	35				
		· · · · · · · · · · · · · · · · · · ·	CTM Task	<b>*:</b> 911122	R
Attention: LAURIE WILLIAMS/B	PB PASS				
Purchase Order Number: 63055.	.001		CTM Samp	le No: 911	122R 12
Date Sampled: 11/21/91 Time:				eived: 11/	
Sampled By: WILLIAMS/BABLIN			Collecti	on Method:	COMPOSITE
Sample Id: EHC-3			Matrix:	HATER	
_ocation : FRONTIER STONE/NIA	GARA MAT.				
Parameters and Standard Metho	dology Used	Results	POL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE )				
CARBON DISULFIDE	SN-846 METHOD 8240	NO	5	MCG/L	MC D:2-3 11/26
VINYL ACETATE	SW-846 METHOD 8240	ND	10	MCG/L	MC D:2-3 11/26
EXTRACTION FOR TCL B/N		EXTRACTED			DO 11/26
-HEXANONE	SW-846 METHOD 8240	ND	10	MCG/L	MC D:2-3 11/26
XTRACTION FOR TCL PEST/PCB	EPA METHOD 8080	EXTRACTED			DO 11/27
(YLENE (TOTAL)	SW-846 METHOD 8240	5.5	5	MCG/L	MC D:2-3 11/26
1-METHYL-2-PENTANONE (MIBK)	SW-846 METHOD 8240	ND	10	MCG/L	MC D:2-3 11/26
2-BUTANONE (MEK)	SW-846 METHOD 8240		10	MCG/L	MC D:2-3 11/26
SODIUM	EPA METHODS, 1979.273.1	1,600,000	1,000	MCG/L	B5:39 12/11
TARGET COMPOUND LIST	BASE/NEUTRAL/ACID EXTRACTABLES	COMPLETED			CH L:100 12/17
NICKEL	ICP, EPA METHOB 200.7	<u></u>	30.0	MCG/L	A4:18 12/11
HENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	<u>D</u>	10	MCG/L	CH L:100 12/17
BIS-(2-CHLORDETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND -	10	MCG/L	CH L:100 12/17
C-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	<u>D</u>	10	MC6/L	CH L:100 12/17
ERCURY 1,3-DICHLOROBENZENE	EPA METHODS,1979.245.1 SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	0.0002	MG/L MCG/L	C4:76 12/11 CH L:100 12/17
4-DICHLOROBENZENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND ON	10	MC6/L	CM L:100 12/17
SENZYL ALCOHOL	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	20	MC6/L	CM L:100 12/17
,2-DICHLOROBENZENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MC6/L	CH L:100 12/17
P-HETHYLPHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	ND ND	10	MCG/L	CM L:100 12/17
	SW-846 METHOD 8270 BASE/NEUTRALS	ND NO	10	MCS/L	CM L:100 12/17
I-METHYLPHENOL	SN-846 METHOD 8270 ACID EXTRACTABLES	ND ND	10	MCG/L	CM L:100 12/17
I-NITROSO-DIPROPYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	NED NED	10	MCG/L	CM L:100 12/17
EXACHLOROETHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:100 12/17
ITROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MC6/L	CM L:100 12/17
SOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CH L:100 12/17
-NITROPHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	D	10	MC6/L	CM L:100 12/17
,4-DINETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/L	CM L:100 12/17
ENZOIC AICD	SW-846 METHOD 8270 BASE/NEUTRALS	מא	50	MCG/L	CM L:100 12/17
	SW-846 METHOD 8270 BASE/NEUTRALS	ND CM	10	MC6/L	CM L:100 12/17
4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	D	10	MC6/L	CM L:100 12/17
,2,4-TRICHLOROBENZENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND NO	10	MC6/L	CH L:100 12/17
APHTHALENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CH L:100 12/17
-CHLOROANILINE	SH-846 METHOD 8270 BASE/NEUTRALS	<u> </u>	50	MCG/L	CH L:100 12/17
	( CONTINUES ON MEXT PAGE )				
REMARKS:					
					04054
					01951

900 ROUTE 146 CLIFTON PARK NY 120 Attention: LAURIE WILLIAMS/B	<b>Δ</b> Σ				
	KE				
Attention:   AHRIF WILLIAMS/R					<b>.</b>
TELLITATION TO BELLIA HALLANDE	OB PASS		UR Tasi	· #: 911122	
Purchase Order Number: 63055			•	le No: 911	
Date Sampled: 11/21/91 Time				eived: 11/	
Sampled By: WILLIAMS/BABLI	N.			on Method:	CURPUSITE
Gample Id: EHC-3 _ocation : FRONTIER STONE/NI/	AGARA MAT.		Matrix:	WHIEK	
Parameters and Standard Methy	odology Used	Results	P91.	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE )				
EXACHLOROBUTADIENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:100 12/17
1-CHLORO-3-METHYLPHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	NO	50	MCG/L	CH L:100 12/17
-METHYLNAPHTHALENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCS/L	CH L:100 12/17
EXACHLOROCYCLOPENTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	NO.	10	MCG/L	CH L:100 12/17
4,5-TRICHLOROPHENOL	SM-846 METHOD 8270 ACID EXTRACTABLES	NED	10	MCS/L	CH L:100 12/17
-CHLORONAPTHALENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	_10	MCG/L	CM L:100 12/17
2-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	MD	_50	MCS/L	CH 1:100 12/17
DIMETHYL PHTHALATE	SI-846 METHOD 8270 BASE/NEUTRALS	NO.	10	MCG/L	CH 1:100 12/17
CENAPHTHYLENE 2,6-DINITROTOLUENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCS/L	CM L:100 12/17
3-NITROANILINE	SN-846 METHOD 8270 BASE/NEUTRALS SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	10 50	MCG/L	CH L:100 12/17
ACENAPHTHENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCG/L MCG/L	CM L:100 12/17 CM L:100 12/17
2.4-DINITROPHENOL	SN-846 METHOD 8270 ACID EXTRACTABLES	NED NED	50	MC6/L	CM L:100 12/17
I-NITROPHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	ND ND	10	MC6/L	CM L:100 12/17
DIBENZOFURAN	SN-846 METHOD 8270 BASE/NEUTRALS	NØ.	10	MCG/L	CM L:100 12/17
.4-DINITROTOLUENE	SN-846 METHOD 8270 BASE/NEUTRALS	NO NO	10	MCG/L	CH L:100 12/17
DIETHYL PHTHALATE	SN-846 METHOD 8270 BASE/NEUTRALS	NED OBN	10	MCG/L	CM L:100 12/17
-CHLOROPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CH L:100 12/17
LUCRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCG/L	CH L:100 12/17
I-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	NO	20	HCG/L	CH L:100 12/17
2-HETHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	NO	50	MCS/L	CH L:100 12/17
I-NITROSODIPHENYLAMINE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:100 12/17
-BROMOPHENYL-PHENYL ETHER	SH-846 METHOD 8270 BASE/NEUTRALS	ND ON	10	MCG/L	CM L:100 12/17
EXACHLOROBENZENE	SH-846 HETHOD 8270 BASE/NEUTRALS	NO NO	10	MCG/L	CH L:100 12/17
PENTACHLOROPHENOL	SN 846 METHOD 8270 ACID EXTRACTABLES	<u>ND</u>	50	MC6/L	CM L:100 12/17
HENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCG/L	CM L:100 12/17
withracene )I-n-butylphthalate	SN-846 METHOD 8270 BASE/NEUTRALS SN-846 METHOD 8270 BASE/NEUTRALS	MD ND	10	MCS/L	CM L:100 12/17
LUCRANTHENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCS/L MCS/L	CM L:100 12/17 CM L:100 12/17
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	NO NO	10	MC6/L	CH L:100 12/17
RUTYL-BENZYL PHTHALATE	SN-846 METHOD 8270 BASE/NEUTRALS	ND ON	10	MC6/L	CM L:100 12/17
3,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	50	MCG/L	CH L:100 12/17
ENZO(A) ANTHRACENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND NO	10	MC6/L	CH L:100 12/17
HRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:100 12/17
	( CONTINUES ON NEXT PAGE )				
REMARKS:					01952

EFC			CTM PRO	JECT #: 91.	01401
900 ROUTE 146				·····	- A
CLIFTON PARK NY 1206	<b>SS</b>				
Attention   LANDIE LITETANGE	D DAGE		CTM Tas	k #: 911122	R
Attention: LAURIE WILLIAMS/BO	JB PR55				
Purchase Order Number: 63055.	.001		CTM Sam	ple No: 911	122R 12
Date Sampled: 11/21/91 Time:	: 3:30 PM			ceived: 11/	
Sampled By : WILLIAMS/BABLIN	······································			ion Method:	······································
Sample Id: EHC-3			Matrix:		
Location : FRONTIER STONE/NIA	AGARA MAT.	×			
Parameters and Standard Metho	xiology Used	Results	POL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE )				
	CONTENDED FROM FROM FROM F				
BIS-(2-ETHYL-HEXYL) PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	NO	10	HC6/L	CM L:100 12/17
DI-N-OCTYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	NO ON	10	HCG/L	CM L:100 12/17
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND NO	10	MC6/L	CM L:100 12/17
Benzo (K) Fluoranthene	SW-846 METHOD 8270 BASE/NEUTRALS	NO	10	MCG/L	CM L:100 12/17
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	MD	10	MCG/L	CM L:100 12/17
	SH-846 METHOD 8270 BASE/NEUTRALS	ND	10	HC6/L	CM L:100 12/17
DIBENZO- (A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ON.	10	MC6/L	CM L:100 12/17
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	<u>OA</u>	10	MCG/L	CM L:100 12/17
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/L	CH L:100 12/17
TARGET COMPOUND LIST	PESTICIDES AND PCB'S	COMPLETED			GCCLP A:22 12/7
ALPHA-BHC	EPA METHOD 8080	ND OR	.05	HCG/L	GCCLP A:22 12/7
ETA-BHC	EPA METHOD 8080	NB	.05	HCG/L	GCCLP A:22 12/7
DELTA-BHC	EPA METHOD 8080	ND	.05	HCS/L	GDDLP A:22 12/7
GAMA-BHC	EPA METHOD 8080	ND	.05	HC6/L	6CCLP A:22 12/7
EPTACHLOR	EPA METHOD 8080	MD	.05	MCG/L	GCCLP A:22 12/7
ALDRIN	EPA METHOD 8080	<u>ND</u>	.05	MCG/L	GCCLP A:22 12/7
HEPTACHLOR EPOXIDE	EPA METHOD 8080	NED	.05	MCG/L	6CCLP A:22 12/7
ENDOSULFAN I	EPA METHOD 8080	NO	.05	MCG/L	600LP A:22 12/7
DIELDRIN	EPA METHOD 8080	ND	0.10	MC6/L	6CCLP A:22 12/7
4,4-DDE	EPA METHOD 8080	МО	0.10	MC6/L	GCCLP A:22 12/7
ENDRIN	EPA METHOD 8080	ND	0.10	MCG/L	600LP A:22 12/7
ENDOSULFAN II	EPA METHOD 8080	<u> </u>	0.10	MCG/L	6CCLP A:22 12/7
1,4-DDD	EPA METHOD 8080	ND	0.10	MC6/L	600LP A:22 12/7
ENDOSULFAN SULFATE	EPA METHOD 8080	.09J	0.10	HCG/L	6CCLP A:22 12/7
4-DDT	EPA METHOD 8080	ND NO	0.10	MCG/L	6COLP A:22 12/7
ETHOXYCHLOR	EPA METHOD 8080	ND	.50	MCG/L	6CCLP A:22 12/7
NORIN KETONE	EPA METHOD 8080	ND	.10	MCG/L	600LP A:22 12/7
PLPHA-CHLORDANE	EPA METHOD 8080	ND ND	.50	MCS/L	6CCLP A:22 12/7
GAMMA-CHLORDANE	EPA METHOD 8080	NO.	.50	MCG/L	600LP A:22 12/7
OXAPHENE	EPA METHOD 8080	ND ND	1.0	HCG/L	600LP A:22 12/7
CB-1016	EPA METHOD 8080	ND ND	.50	MC6/L	600LP A:22 12/7
PCB-1221	EPA METHOD 8080	ND ND	.50	MCG/L	6CCLP A:22 12/7
CB-1232	EPA METHOD 8080	ND ND	.50	MCS/L	600LP A:22 12/7
CB-1242	EPA METHOD 8080	NB	.50	MCG/L	600LP A:22 12/7
	( CONTINUES ON NEXT PAGE )				
REMARKS:					
· / X = X / V (					01953

			CTM PRO	JECT #: 91.0	01401
POO ROUTE 146			<del></del>		
CLIFTON PARK NY 120	265				_
All-Line I AIMTE UTU TAMA	OOD DACC		CTM Tas	k 1: 911122	<b>1</b>
Attention: LAURIE WILLIAMS/	OUD THEE				
Purchase Order Number: 63055	5-001		CTM 2	ple No: 9111	1220 12
Date Sampled: 11/21/91 Time				ple No: 911/ ceived: 11/2	
Sampled By : WILLIAMS/BABLI				ion Method:	
Sample Id: EHC-3			Matrix:		CONFOCATE
ocation : FRONTIER STONE/NI	IABARA MAT.		17401421		
Parameters and Standard Meth	Results	PQL_	Unit	Analyst Reference	
	( CONTINUED FROM PREVIOUS PAGE		<del></del>		
PCB-1248	EPA METHOD 8080	ND ND	.50	HCG/L	SCOLP A:22 12/7
PCB-1254	EPA METHOD 8080	NO	1.0	MCG/L	GCCLP A:22 12/7
PCB-1260	EPA METHOD 8080	ND ND	1.0	MCG/L	GCCLP A:22 12/7
ALUMINUM	ICP, EPA METHOD 200.7	3,630	200	MC6/L	A4:18 12/11
ANTIMONY	ICP, EPA METHOD 200.7	<u>ND</u>	60.0	HCG/L	A4:18 12/11
BARIUM	ICP, EPA METHOD 200.7	ND	50 <b>.0</b>	MCG/L	A4:18 12/11
ERYLLIUM	ICP, EPA METHOD 200.7	<u>ND</u>	5.0	MCG/L	A4:18 12/11
CYANIDE DISTILLATION	STD. HETH. 15TH ED. 4128	COMPLETED			EP 11/26
CADMIUM	ICP, EPA METHOD 200.7	ND	5.0	MCG/L	A4:18 12/11
CALCIUM	ICP, EPA METHOD 200.7	159,000	200	MC6/L	A4:23 12/17
CHROMIUM	ICP, EPA METHOD 200.7	ND ND	10.0	MC6/L	A4:18 12/11
COBALT COPPER	ICP EPA METHOD 200.7	ND ND	20.0	MCG/L	A4:18 12/11
AGNESIUM	ICP, EPA METHOD 200.7 ICP, EPA METHOD 200.7	74,200	25.0 200	MCG/L	A4:19 12/12
POTASSIUM	EPA METHODS, 1979,258.1	7 <b>4,200</b> 36,700	1.000	MCG/L MCG/L	A4:18 12/11 85:35 12/10
SILVER	ICP, EPA METHOD 200.7	36,700 ND	10.0	MCG/L	15:15 12/10 A4:18 12/11
/ANADIUM	ICP, EPA METHOD 200.7	24.1	20.0	MC6/L	A4:18 12/11
ZINC	ICP, EPA METHOD 200.7	80.4	20.0	MC6/L	A119 12/12
CID DISESTION - FLAME/ICP	SH-846 3010	COMPLETED		1:3741.2	D8:103 12/5
PRSENIC	EPA METHODS, 1979.206.2	NO	4.0	MCG/L	H6 A:722 12/13
THALLIUM	EPA METHODS,1979.279.2	NO	10.0	MG/L	HG A:709 12/5
EAD	EPA METHODS,1979.239.2	9.4	4.0	MCG/L	HG A:721 12/13
ELENIUM	EPA METHODS,1979.270.2	ND	10.0	MCG/L	HS A:713 12/10
<u> </u>	STD. METH. 15TH ED.423	7.7		SUE17oC	CC 12/4
REMARKS:					
					01954
		Legend: ( = Less Than	, ) = GRE	ATER THAN, N	D = NOT DETECTED
					CG/L=PPB, MCG/G=PPM
		D = RESULT IS	( POL. B	IT ) HOL	

EHC	CTM FROJECT #: 91.01401
900 ROUTE 146	
CLIFTON PARK NY 12065	
	CTM Task #: 911122R
Attention: LAURIE WILLIAMS/BOB PASS	
Purchase Order Number: 63055.001	CTM Sample No: 911122R 13
Date Sampled: 11/21/91 Time: 11:30 AM	Date Received: 11/22/91
Sampled By: WILLAIMS/BABLIN	Collection Method: COMPOSITE
Sample Id: EHC-4	Matrix: WATER
Location : FRONTIER STONE/NIAGARA MAT.	

Parameters and Standard Meth	odology Used	Results	POL	Unit	Analyst Reference
ACID DIGESTON - FURNACE	SH-846 3020	COMPLETED			D8:95 12/3
TARGET COMPOUND LIST VOLATILI		COMPLETED		***************************************	MC D:2-3 11/26
MANGANESE	ICP, EPA METHOD 200.7	49.0	10.0	MCG/L	A4:18 12/11
CHLOROMETHANE	SN-846 NETHOD 8240	ND	10	MC6/L	MC D:2-3 11/26
VINYL CHLORIDE	SH-846 METHOD 8240	מא	10	MCG/L	MC D:2-3 11/26
BROMOMETHANE	SN-846 METHOD 8240	NO	10	MCG/L	MC D:2-3 11/26
CHLOROETHANE	SW-846 METHOD 8240	ND.	10	MCG/L	MC D:2-3 11/26
1,1-DICHLOROETHANE	SW-846 METHOD 8240	ND	5	MC6/L	MC D:2-3 11/26
MERCURY DIGESTION - AQUEOUS	EPA METHODS, 1979.245.1	COMPLETED			D8:104 12/5
METHYLENE CHLORIDE	SW-846 METHOD 8240	D	5	MC6/L	HC D:2-3 11/26
CYANIDE, TOTAL W/ DISTILLATION	ONEPA 335.2 ; 335.3	NO	0.01	MG/L	JOC 12/3
TRANS 1,2-DICHLOROETHENE	SN-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
CIS 1,2-DICHLOROETHENE	SW-846 METHOD 8240	ND	5	MCS/L	MC D:2-3 11/26
1,1-DICHLOROETHENE	SH-846 METHOD 8240	Ж	5	MCS/L	HC D:2-3 11/26
CHLOROFORM	SW-846 METHOD 8240	NO	5	MC6/L	MC D:2-3 11/26
1,1,1-TRICHLOROETHANE	SN-846 METHOD 8240	NO	5	MCS/L	MC B:2-3 11/26
CARBON TETRACHLORIDE	SH-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
BENZEN <b>E</b>	SW-846 METHOD 8240	NO	5	MCG/L	MC D:2-3 11/26
1,2-DICHLOROETHANE	SW-846 METHOD 8240	NO	5	MCG/L	MC D:2-3 11/26
TRICHLOROETHENE	SW-846 METHOD 8240	NO	5	MC6/L	MC D:2-3 11/26
1,2-DICHLOROPROPANE	SW-846 METHOD 8240	NO	5	MCG/L	HC D:2-3 11/26
BROMODICHLOROMETHANE	SN-846 METHOD 8240	ND	5	MC6/L	HC D:2-3 11/26
TRANS-1,3-DICHLOROPROPENE	SH-846 METHOD 8240	NO	5	MCG/L	MC D:2-3 11/26
TOLLENE	SW-846 NETHOD 8240	NO	5	MCG/L	MC D:2-3 11/26
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
1,1,2-TRICHLOROETHANE	SW-846 NETHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
TETRACHLOROETHENE	SW-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
IRON	ICP, EPA METHOD 200.7	1,380	100	MCG/L	A4:18 12/11
DIBROMOCHLOROMETHAME	SH-846 METHOD 8240	NO	5	MCG/L	MC D:2-3 11/26
CHLOROBENZENE	SN-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
ETHYLB <b>ENZENE</b>	SW-846 METHOD 8240	NO .	5	MCG/L	MC D:2-3 11/26
BROMOFORM	SW-846 METHOD 8240	NÐ	5	MC6/L	MC D:2-3 11/26
1,1,2,2-TETRACHLOROETHANE	SW-846 METHOD 8240	NO	5	MC6/L	MC D:2-3 11/26
EXTRACTION FOR TCL - ACIDS		EXTRACTED			DO 11/26
STYRENE	SN-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
ACETONE	SW-846 METHOD 8240	11	10	MCS/L	MC D:2-3 11/26

( CONTINUES ON NEXT PAGE )

REMARKS:

			OTH DOG TO	T #: 91.01	401
			CIR PRUJE	.1 #: 71.Vl	Ant
00 ROUTE 146					
LIFTON PARK NY 1206	5			L. 0444000	
LICIUM			CTM Task	: 911122R	
ttention: LAURIE WILLIAMS/BO	B PASS				
			CTM Same!	e No: 91112	28 13
urchase Order Number: 63055.	001		Data Para	ived: 11/2	2/91
ate Sampled: 11/21/91 Time:	11:30 AM		Collection	n Method: (	INPOSITE
ampled By : WILLAIMS/BABLIN			Matrix: W		
Sample Id: EHC-4			Hatili N	71121	
ocation : FRONTIER STONE/NIA	GARA MAT.				
		Results	PQL	Unit	Analyst Reference
arameters and Standard Metho	odology Used	Kesuits	Lar	<u> </u>	
	( CONTINUED FROM PREVIOUS PAGE )				
	( CONTINUED FROM FREYIDISE I ASS.				
DANDON DINE FIRE	SN-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
CARBON DISULFIDE	SH-846 METHOD 8240	ND	10	MCG/L	MC D:2-3 11/26
VINYL ACETATE	EPA METHOD 8080	EXTRACTED			DO 11/27
EXTRACTION FOR TCL PEST/PCB	SW-846 METHOD 8240	ND	10	MCG/L	MC D:2-3 11/26
2-HEXANONE	OR OTO INLINES ENT	EXTRACTED			DO 11/26
EXTRACTION FOR TCL B/N XYLENE (TOTAL)	SW-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
A-HETHYL-2-PENTANONE (MIBK)	SW-846 METHOD 8240	מא		MCG/L	MC D:2-3 11/26 MC D:2-3 11/26
2-BUTANONE (MEK)	SW-846 METHOD 8240	ND		MCG/L	R5:39 12/11
	EPA METHODS, 1979.273.1	2,200,000	1,000	MCG/L	CM L:100 12/17
SODIUM TARGET COMPOUND LIST	RASE/NEUTRAL/ACID EXTRACTABLES	COMPLETED		HCC II	CM L:100 12/17
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/L	A4:18 12/11
NICKEL	ICP. EPA METHOD 200.7	ND ND	30.0	MCG/L	CH L:100 12/17
BIS-(2-CHLOROETHYL)-ETHER	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCG/L MCG/L	CH L:100 12/17
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND ND	10	MG/L	C4:76 12/11
MERCURY	EPA METHODS 1979 245.1	ND ND	0.0002	MCG/L	CM L:100 12/17
1.3-DICHLOROBENZENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND		MC6/L	CH L:100 12/17
1,4-DICHLOROBENZENE	SN-846 METHOD 8270 BASE/NEUTRALS	<u>NO</u>	10	MCG/L	CM L:100 12/17
BENZYL ALCOHOL	SW-846 METHOD 8270 BASE/NEUTRALS	<u>ND</u>	50	MCG/L	CH L:100 12/17
1,2-DICHLOROBENZENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	10 10	MCG/L	CH L:100 12/17
2-NETHYLPHENII	SW-846 METHOD 8270 ACID EXTRACTABLES	<u>ND</u>	10	MCS/L	CH L:100 12/17
BIS-(2-CHLOROISOPROPYL)-ETH	ER SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCG/L	CH L:100 12/17
4-METHYLPHENOL	SH-846 HE HUD 82/V HULD EXTRACTABLES	ND ND	10	MC6/L	CH L:100 12/17
N-NITROSO-DIPROPYLAMINE	SH-846 METHOD 8270 BASE/NEUTRALS		10	MC6/L	CH L:100 12/17
HEXACHLOROETHANE	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCG/L	CH L:100 12/17
NITROBENZENE	SN-846 METHOD 8270 BASE/NEUTRALS		10	MCG/L	CH L:100 12/17
ISOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND ON	10	MCG/L	CM L:100 12/17
2-NITROPHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	ND ND	10	MC6/L	CH L:100 12/17
2,4-DIMETHYLPHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	שא	50	MCG/L	CH L:100 12/17
BENZOIC AICD	SW-846 METHOD 8270 BASE/NEUTRALS NE SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:100 12/17
BIS-(2-CHLOROETHOXY)-METHA	SH-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MC6/L	CM L:100 12/17
2,4-DICHLOROPHENOL	SH-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CH L:100 12/17
1,2,4-TRICHLOROBENZENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:100 12/17
NAPHTHALENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	50	MC6/L	CM L:100 12/17
4-CHLOROANILINE	SH-946 RETHUN DE70 BRISE/NEUTRIES				
	( CONTINUES ON NEXT PAGE )				
REMARKS:					01956

3·C			CTM PROJ	ECT #: 91.0	01401
900 ROUTE 146					
LIFTON PARK NY 120	65				
			CTM Task	#: 911122F	}
Attention: LAURIE WILLIAMS/B	OB PASS				
Santana Radan Maria - Chare			OTH A	1 . N	1000 40
Purchase Order Number: 63055				le No: 9111	
Date Sampled: 11/21/91 Time				eived: 11/2	
Sampled By: WILLAIMS/BABLI	\			on Method:	CUMPUSTIE
Bample Id: EHC-4 Location : FRONTIER STONE/NI	SCARA MAT		Matrix:	RHIEK	
TOTAL TOTAL STORES ATT	CHIM THI.				
Parameters and Standard Metho	odolnay Used	Results	PQL	Unit	Analyst Reference
		112 2 2 2 2 3 3			137 Pall & F. S. C. F. Share Control on
	( CONTINUED FROM PREVIOUS PAGE )				
EXACHLOROBUTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:100 12/17
1-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND ND	20	MCG/L	CM L:100 12/17
?-METHYLNAPHTHALENE	SN-846 METHOD 8270 BASE/NEUTRALS	סא	10	MCG/L	CM L:100 12/17
HEXACHLOROCYCLOPENTADIENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CH L:100 12/17
4,5-TRICHLOROPHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MC6/L	CM L:100 12/17
?-CHLORONAPTHALENE	SH-846 METHOD 8270 BASE/NEUTRALS	NO	10	MCG/L	CM L:100 12/17
P-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	NO OM	50	MC6/L	CM L:100 12/17
DIMETHYL PHTHALATE	SH-846 METHOD 8270 BASE/NEUTRALS	AD .	10	MCG/L	CM L:100 12/17
YCENAPHTHYLENE	SN-846 METHOD 8270 BASE/NEUTRALS	QD/	10	MCS/L	CM L:100 12/17
,6-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	NO ON	10	MCG/L	CM L:100 12/17
3-NITROANILINE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	50	MCG/L	CH L:100 12/17
YCENAPHTH <b>ENE</b>	SN-846 NETHOD 8270 BASE/NEUTRALS	NO	10	MCG/L	CH L:100 12/17
4-DINITROPHENOL	SN-846 METHOD 8270 ACID EXTRACTABLES	מא	50	MCS/L	CH L:100 12/17
1-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/L	CM L:100 12/17
) I BENZOFURAN	SH-846 METHOD 8270 BASE/NEUTRALS	MD GM	10	MCG/L	CM L:100 12/17
4-DINITROTOLUENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND ON	10	MCG/L	CM L:100 12/17
DIETHYL PHTHALATE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	CM L:100 12/17
I-CHLOROPHENYL-PHENYL-ETHER	SH-846 METHOD 8270 BASE/NEUTRALS	<u> </u>	10	MCG/L	CH L:100 12/17
LUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND NO	10	MCG/L	CH L:100 12/17
-NITROANILINE	SH-846 METHOD 8270 BASE/NEUTRALS	NO	50	MCG/L	CH L:100 12/17
PHETHYL-4,6-DINITROPHENOL	SN-846 METHOD 8270 ACID EXTRACTABLES	<u> </u>	50	MCS/L	CM L:100 12/17
I-NITROSODIPHENYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	NO NO	10	MCG/L	CH L:100 12/17
I-BROMOPHENYL-PHENYL ETHER	SN-846 METHOD 8270 BASE/NEUTRALS	ND NO	10	MC6/L	CH L:100 12/17
EXACHLOROBENZENE	SM-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MCG/L	CM L:100 12/17
ENTACHLOROPHENOL	SN-846 METHOD 8270 ACID EXTRACTABLES	ND ND	50	MC6/L	CH L:100 12/17
HEVANTHRENE	SH-846 METHOD 8270 BASE/NEUTRALS	NO NO	10	MCG/L	CH L:100 12/17
NTHRACENE	SH-846 METHOD 8270 BASE/NEUTRALS SH-846 METHOD 8270 BASE/NEUTRALS	DN DN	10	MC6/L MC6/L	CM L:100 12/17 CM L:100 12/17
II-N-BUTYLPHTHALATE LUORANTHENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND NO	10	MCS/L	CH L:100 12/17
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND ND	10	MC6/L	CH L:100 12/17
UTYL-BENZYL PHTHALATE	SN-846 METHOD 8270 BASE/NEUTRALS	NO ON	10	MCS/L	CM L:100 12/17
,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	NO NO	20	MCG/L	CH L:100 12/17
ENZO(A) ANTHRACENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND NO	10	MC6/L	CH L:100 12/17
HRYSENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND ON	10	MCG/L	CH L:100 12/17
				100/5	
	( CONTINUES ON NEXT PAGE )				
REMARKS:					
					01957

310			CTM PRO	IECT 1: 91.	01401
900 ROUTE 146		William Control of the Control			· · · · · · · · · · · · · · · · · · ·
LIFTON PARK NY 1208	35	· · · · · · · · · · · · · · · · · · ·			
			CTM Tasi	· #: 911122	R
Attention: LAURIE WILLIAMS/B	JB PASS	war war war a w			
Purchase Order Number: 63055.	.001		CTM Same	ile No: 911	122R 13
Date Sampled: 11/21/91 Time:		······································		eived: 11/2	
Bampled By : WILLAIMS/BABLIN					
Sample Id: EHC-4			Matrix:		USH UNITE
ocation : FRONTIER STONE/NIA	MGARA MAT.				
Danasiana and Ciandand Make		014-	2004	14-14	A-1A Reference
Parameters and Standard Metho	xxxxxx used	Results	PQL.	Unit	HIMITYST RETERENCE
	( CONTINUED FROM PREVIOUS PAGE )		<u> </u>		
3IS-(2-ETHYL-HEXYL) PHTHALATE	SN-846 METHOD 8270 BASE/NEUTRALS	NO	10	MC6/L	CM L:100 12/17
DI-N-OCTYL PHTHALATE	SN-846 METHOD 8270 BASE/NEUTRALS	ND NO	10	MCG/L	CH L:100 12/17
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	MD COM	10	MCG/L	CH L:100 12/17
SENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND ON	10	MCG/L	CH L:100 12/17
SENZO(A) PYREME	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	
	SM-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	
) I BENZO- (A,H) -ANTHRACENE	SN-846 METHOD 8270 BASE/MEUTRALS	MD	10	MCS/L	
SENZO-(G,H,I)-PERLYENE	SM-846 NETHOD 8270 BASE/NEUTRALS	<u>NO</u>	10	HCG/L	
4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	סא	10	MCS/L	
TARGET COMPOUND LIST	PESTICIDES AND PCB'S	COMPLETED	. –		
ALPHA-BHC	EPA METHOD 8080	NB .=	.05	MCG/L	
ETA-BHC	EPA METHOD 8080	NO.	.05	MCG/L	
JELTA-BHC	EPA METHOD 8080	<u>ND</u>	.05	HCG/L	
ANNA-BIC	EPA METHOD 8080	<u>N0</u>	.05	MCG/L	
EPTACHLOR	EPA METHOD 8080	<u>ND</u>	.05	MCG/L	
YLDRIN	EPA METHOD 8080	<u> </u>	.05	MCG/L	
EPTACHLOR EPOXIDE	EPA METHOD 8080	<u>ND</u>	.05	MCG/L	
NDOSULFAN I	EPA METHOD 8080	ND ND	.05	MCG/L	
DIELDRIN	EPA METHOD 8080	<u>NO</u>	.10	MCG/L	
,4-DDE	EPA METHOD 8080	<u>M0</u>	.10	MCS/L	
ENDRIN ENDOSULFAN II	EPA METHOD 8080	ND ND	.10	MCG/L	
:NOOSOLFAN II	EPA METHOD 8080 EPA METHOD 8080	ND ND	.10	MCG/L MCG/L	
RIDOSULFAN SULFATE	EPA METHOD 8080	.03J	.10	MCG/L	
,4-DDT	EPA METHOD 8080	ND ND	.10	MC6/L	
ETHOXYCHLOR	EPA METHOD 8080	.05J	.50	MCG/L	
NDRIN KETONE	EPA METHOD 8080	ND RD	.10	MC6/L	
LPHA-CHLORDANE	EPA METHOD 8080	ND ND	.50	MC6/L	
ANYA-CHLORDANE	EPA METHOD 8080	ND ND	.50	MCG/L	
OXAPHENE	EPA METHOD 8080	ND ND	1.0	MCG/L	
CB-1016	EPA METHOD 8080	ND ND	.50	MCS/L	
CB-1221	EPA METHOD 8080	ND ON	.50	MCG/L	
C8-1232	EPA METHOD 8080	ND	.50	MCG/L	
CB-1242	EPA METHOD 8080	ND	.50	MCG/L	
	( CONTINUES ON NEXT PAGE )				
REMARKS:					
					01059

HC			CTM PRO	ECT #: 91.0	1401
900 ROUTE 146	A.P.			······································	
CLIFTON PARK NY 120	1653		OTM Table	. A. 011100F	
Attention: LAURIE WILLIAMS/E	0B PASS		CIM IASI	*: 911122F	
Purchase Order Number: 63055	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			le No: 9111	
Date Sampled: 11/21/91 Time				eived: 11/2	<del></del>
Sampled By : WILLAIMS/BABLI	N	<u> </u>		on Method:	COMPOSITE
Sample Id: EHC-4 Location : FRONTIER STONE/NI	ADADA MAT		Matrix:	WAIER	
LOCATION : FRUNTIER STUNE/NI	HOHECH THI.				
Parameters and Standard Meth	odology Used	Results	POL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE )				
PCB-1248	EPA METHOD 8080	ND	.50	MCG/L	6CCLP A:22 12/7
PCB-1254	EPA METHOD 8080	MD WD	1.0	MCG/L	GCCLP A:22 12/7
PCB-1260	EPA METHOD 8080	ND NO	1.0	MCG/L	6CCLP A:22 12/7
ALUMINUM	ICP, EPA METHOD 200.7	930	200	MCG/L	A4:18 12/11
ANTIMONY	ICP, EPA METHOD 200.7	- GN	60.0	MCG/L	A4:18 12/11
BARIUM	ICP, EPA METHOD 200.7	ND	50.0	MCG/L	A4:18 12/11
CYANIDE DISTILLATION	STD. METH. 15TH ED. 4128	COMPLETED			EP 11/26
BERYLLIUM	ICP, EPA METHOD 200.7	MO	5.0	MC6/L	A4:18 12/11
CADMIUM	ICP, EPA METHOD 200.7	ND	5.0	MCG/L	A4:18 12/11
CALCIUM	ICP, EPA METHOD 200.7	166,000	200	MCG/L	A4:23 12/17
CHRONIUM	ICP, EPA METHOD 200.7	NÐ	10.0	MC6/L	A4:18 12/11
COBALT	ICP, EPA METHOD 200.7	NO	20.0	MCG/L	A4:18 12/11
COPPER	ICP, EPA METHOD 200.7	ND	25.0	MC6/L	A4:19 12/12
MAGNESIUM	ICP, EPA METHOD 200.7	106,000	500	MC6/L	A4:18 12/11
POTASSIUM	EPA METHODS, 1979.258.1	42,600	1,000	HCG/L	B5:35 12/10
SILVER	ICP, EPA METHOD 200.7	NO	10.0	MCG/L	A4:18 12/11
VANADIUM	ICP, EPA METHOD 200.7	28.1	20.0	MC6/L	A4:18 12/11
ZINC	ICP, EPA METHOD 200.7	45.8	20.0	MC6/L	A4:19 12/12
ACID DISESTION - FLAME/ICP	SH-846 3010	COMPLETED	* ^	HCC //	D8:103 12/5
ARSENIC	EPA METHODS, 1979.206.2	ND ND	4.0	MCG/L	H6 A:722 12/13
THALL IUM LEAD	EPA METHODS,1979.279.2 EPA METHODS,1979.239.2	ND ND	4.0	MG/L MCG/L	HG A:709 12/5 HG A:721 12/13
ehu Selenium	EPA METHODS.1979.270.2		10.0	HCG/L	H6 A:713 12/10
PH :	STD. METH. 15TH ED.423	7.7	10.0	SUE16oC	CC 12/4
	CONTRACTOR STATE OF THE				
DEMANDA.					
REMARKS:					
					01959

LEGEND: ( = LESS THAN, ) = GREATER THAN, ND = NOT DETECTED

MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

D = RESULT IS ( PGL, BUT ) MGL

# CTM Analytical Laboratories, Ltd.

15 Century Hill Drive P.O. Box 727 Latham, NY 12110 518-786-7100 FAX 518-786-7139



## LABORATORY SERVICES

#### CHAIN OF CUSTODY RECORD

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- ''-	LE NUMBER		SAMPLE IDENTIFICATION OF			LE NUMBER SAMPLE IDENTIFICATION & LOCATION DATE P	LE NUMBER SAMPLE IDENTIFICATION & LOCATION DATE P = p.m.    A = a.m. P = p.m.   A   P   A   P      A   P	= HC-1  1/21/91 920 P BW A GW A GW	= HC-1 11/2/91 730 × BW  A GW  A GW	F Gω 3  A Gω 3  A Gω 3	LE NUMBER SAMPLE IDENTIFICATION & LOCATION  DATE P = p.m. MATRIX 8 2 2 3 ANA    I   Z   S   S   D   D    A P G W 3 B N A  P G W 3 P /P

Distribution: Orig. - Accompany Shipment

XTM-07000-01 (8/88)

# CTM Analytical Laboratories, Ltd.

15 Century Hill Drive P.O. Box 727 Latham, NY 12110 518-786-7100 FAX 518-786-7139



## LABORATORY SERVICES

#### CHAIN OF CUSTODY RECORD

CLIENT AND PROJECT N	AMF W. / D. D. C	-		SAMPLER	S: (Signatu	(0)	<b>a</b> 11	1/1	
EHC\F1	ontier Stone - NI	iasar	a Mater	اداح	Laur	آر مد	LI W	M	ins CEHC
CTM SAMPLE NUMBER			DATE	TIME A = a.m. P = p.m.	SAMPLE	COMP GRAB	NUMBER OF CONT'S	ANA	YSIS REQUIRED
1/ZZKB	EHC-3	70.7	11/21/91				4	VOA	
				A P	Gω		3	BNI	4 - TCL
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					Gω		1		als -tco
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Method of Shipme	nt:							X	1 M
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1 Const Consdinator Stald Siles

# APPENDIX H Analytical TCLP Soil Quality Results

CTM ANALYTICAL LABS, LTD.	
15 Century Hill Dr.	
Lathan, NY 12110	
Phone: (518)786-7100 Fax: (518)786-7139	
I HALL THAT I BALL TOWN I AND	
Laboratory Analysis Report	
Prepared for: EHC	
Project Number: 91,01401	
Task Number: 911122R	
24 DEC 1991	
57 JSW 1//1	
INPORTANT - PLEASE NOTE .	
1. All results are calculated on a dry weight basis unless otherwise specified.	
2. PQL = Practical Quantitation Limit.	
	ail (DOL) bul
3. A result with a "D" means that the result was "Detected" below the Practical Quantitation Li above the Method Detection Limit (MDL).	mit (PGC), but
and the listing beterriou trait (unit).	
CERTIFICATIONS:	01912
NYS E.L.A.P. ID NO: 10358 HA: NY052 CT: PH-0551	
NJ: 73581 PA: 68-402 NH: 199014-C	

EHC			CTM_PRO	JECT #: 91.	01401
900 ROUTE 146 CLIFTON PARK NY 1206	5				
			CTM Tas	k #: 911122	<u> </u>
Attention: LAURIE WILLIAMS/BO	B PASS				
Purchase Order Number: 63055.			CTM Sam	ole No: 911	122R 04
Date Sampled: 11/21/91 Time:	7:15 PM			eived: 11/	
Sampled By : WILLIAMS				ion Method:	COMPOSITE
Sample Id: LAGOON 1-A Location : FRONTIER STONE/NIA	RARA MAT		Matrix:	SOIL	
		D13-	200	11 à 4	Analysis Defended
Parameters and Standard Metho	octogy used	Results	POL	Unit	Analyst Reference
MERCURY PREPARATION - TOLP	SW-846 METHOD 1311	COMPLETED			D8:104 12/5
ZERO HEADSPACE EXTRACTION	SN-846 METHOD 1311	EXTRACTED			ACM 12/1
BENZENE (TCLP)	SN-846 METHOD 8240	ND	50	MCG/L	MC C:152 12/6
CARBON TETRACHLORIDE (TCLP)	SN-846 NETHOD 8240		50	MCG/L	MC C:152 12/6
CHLOROBENZENE (TCLP)	SH-846 METHOD 8240	<u></u>	50	MCS/L	MC C:152 12/6
CHLOROFORM (TCLP)	SW-846 METHOD 8240	ND ND	50	MCG/L	MC C:152 12/6
1,4-DICH OROBENZENE (TCLP)	SH-846 NETHOD 8240	ND ND	51	MCS/L	MC C:152 12/6
1 ,2-DICHLOROETHANE (TCLP)	SH-846 METHOD 8240	ND ND	50	MCG/L	MC C:152 12/6
1,1-BICHLOROETHYLENE (TCLP) METHYL ETHYL KETONE (TCLP)	SH-846 METHOD 8240 SH-846 METHOD 8240	NED NED	50 100	MCG/L	MC C:152 12/6
TETRACHLOROETHYLENE (TCLP)	SH-846 METHOD 8240	ND ND		MCS/L	MC C:152 12/6
TRICHLOROETHYLENE (TCLP)	SN-846 METHOD 8240	W0	50 52	MCG/L MCG/L	MC C:152 12/6
VINYL CHLORIDE (TCLP)	SN-846 METHOD 8240	NED NED	100	MCS/L	MC C:152 12/6 MC C:152 12/6
0-CRESOL (TCLP)	SH-846 METHOD 8270 ACID FRACTION	ND	53	MCS/L	CH L:103 12/19
PENTACHLOROPHENOL (TCLP)	SW-846 METHOD 8270 ACID FRACTION	ND ND	94	MCG/L	CM L:103 12/19
		ND ND	47	MCS/L	CM L:103 12/19
2.4.6-TRICHLOROPHENOL (TCLP)	SM-846 METHOD 8270 ACID FRACTION	ND OR	49	MCG/L	CH L:103 12/19
M & P CRESOL (TCLP)	SH-846 METHOD 8270 ACID FRACTION	ND ND	114	MC6/L	CM L:103 12/19
HEXACHLOROBENZENE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	ND	51	MCG/L	CM L:103 12/19
HEXACHLOROBUTADIENE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	NO	60	MC6/L	CM L:103 12/19
PYRIDINE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	ND	56	MCG/L	CH L:103 12/19
2.4-DINITROTOLUENE (TCLP)	SH-846 NETHOD 8270 BASE/NEUTRALS	ND	48	MCG/L	CM L:103 12/19
HEXACHLOROETHANE (TCLP)	SH-846 METHOD 8270 BASE/NEUTRALS	ND	56	MCG/L	CH L:103 12/19
NITROBENZENE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	NO	55	MC6/L	CH L:103 12/19
EXTRACTION FOR TCLP B/N	SW-846 METHOD 8270	COMPLETED			DO 12/6
EXTRACTION FOR TCLP ACID/EXT.	SN-846 METHOD 8270	COMPLETED			DO 12/6
CHLORDANE (TCLP)	SH-846 METHOD 8080	ND	2.0	MCG/L	6C3 C:119 12/12
ENDRIN (TCLP)	SN-846 METHOD 8080	<u> </u>	0.20	MCS/L	6C3 C:119 12/12
HEPTACHLOR (TCLP)	SN-846 METHOD 8080	NO	0.20	MCG/L	6C3 C:119 12/12
LINDANE (TCLP)	SN-846 METHOD 8080	MD	0.20	MCG/L	6C3 C:119 12/12
METHOXYCHLOR (TCLP)	SN-846 METHOD 8080	NO	0.20	MC6/L	6C3 C:119 12/12
TOXAPHENE (TCLP)	SH-846 METHOD 8080	ND ND	4.0	MCG/L	6C3 C:119 12/12
HEPTACHLOR EPOXIDE (TCLP)	SH-846 METHOD 8080	ND EXTRACTER	0.20	MCG/L	6C3 C:119 12/12
EXTRACTION FOR TCLP PESTICIDES		EXTRACTED	^ ^^	Less n	ACN 12/6
2,4-D (TCLP) 2,4,5-TP (SILVEX) (TCLP)	SN-846 METHOD 8150	ND NO	0.20	MCG/L	6C3 C:14 12/12
ENTITE COLLVENT (TULF)	SN-846 METHOD 8150	NO	0.20	MC6/L	6C3 C:14 12/12
	( CONTINUES ON NEXT PAGE )				
REMARKS:					

	· ·	4 DEC 1991			
EHC			CTM PROJ	JECT #: 91.	01401
900 ROUTE 146					
CLIFTON PARK NY	12065				
A11_1!     A1PATE	ANO /800 DAGO		CTM Task	*: 911122	R
Attention: LAURIE WILLIA	Ars/908 Pass			ACM 12/11  0.11 M6/L A4:21 12/13  0.050 M6/L A4:21 12/13  0.005 M6/L A4:22 12/17  0.011 M6/L A4:21 12/13  D8:93 12/3  0.056 M6/L A4:21 12/13  0.0004 M6/L C4:76 12/11  0.10 M6/L A4:21 12/13  D8:117 12/11  D8:117 12/11	
			CTM Samp	le No: 911	122R 04
	Time: 7:15 PM		Date Rec	eived: 11/	22/91
CHC  COO ROUTE 146 CLIFTON PARK  Attention: LAURIE WILLIAMS/BOB PASS  Purchase Order Number: 63055.001  Date Sampled: 11/21/91 Time: 7:15 PM  Campled By: WILLIAMS  Cample Id: LAGOON 1-A  Cocation: FRONTIER STONE/NIAGARA MAT.  Parameters and Standard Methodology Used  ( CONTINUED FROM PREVIOUS PA  EXTRACTION FOR TCLP HERBICIDESSN-846 METHOD 8150  RESENIC, BY TCLP  SN-846 METHOD 1311  CADMIUM, BY TCLP  SN-846 METHOD 1311  CADMIUM, BY TCLP  SN-846 METHOD 1311  CLP EXTRACTION  SN-846 METHOD 1311  EAD, BY TCLP  SN-846 METHOD 1311  EACHERY, BY TCLP  SN-846 METHOD 1311  ELENIUM, BY TCLP  SN-846 METHOD 1311  ELENIUM, BY TCLP  SN-846 METHOD 1311				COMPOSITE	
	NE/NITAGADA MAT		Matrix:	SOIL	WW
COLGETTAL   LUMANIEW 2) OL	ALTHARCHUM (BM)				
Parameters and Standard	Methodology Used	Resul	ts PQL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOU	S PAGE )			
EXTRACTION FOR TOLP HERE	BICIDESSN-846 METHOD 8150	EXTRACT	ED ED		ACM 12/11
ARSENIC, BY TOLP		ND		MG/L	
BARIUM, BY TCLP		0.3	5 0.050	MG/L	A4:21 12/13
CADMIUM, BY TOLP		0.0			
		NO CONTRACTOR		MG/L	
		COMPLET		MO 11	
		םא מא			
		WD 100			
SILVER, BY TOLP					
		COMPLET		1.076	
***************************************					
DEMARKS.					
REMARKS:			T		7184
REMARKS:					01929
REMARKS:		LEGEND: ( = LESS HG/KG=PPM	Than, ) = Great , McG/KG=PPB, I T IS ( PGL, BU)	4G/L=PPM, M	

EFC :	CTM PROJECT #: 91.01401
900 ROUTE 146	
CLIFTON PARK NY 12065	
	CTM Task #: 911122R
Attention: LAURIE WILLIAMS/BOB PASS	
Purchase Order Number: 63055.001	CTM Sample No: 911122R 05
Date Sampled: 11/21/91 Time: 7:20 PM	Date Received: 11/22/91
Sampled By : WILLIAMS	Collection Method: COMPOSITE
Sample Id: LAGOON 1-B	Matrix: SOIL
Location : FRONTIER STONE NIASARA MAT.	

Parameters and Standard Metho	dology Used	Results	POL	Unit	Analyst Reference
MERCURY PREPARATION - TOLP	SW-846 METHOD 1311	COMPLETED			D8:104 12/5
ZERO HEADSPACE EXTRACTION	SN-846 METHOD 1311	EXTRACTED			ACM 12/1
BENZENE (TCLP)	SH-846 METHOD 8240	NO	50	MC6/L	MC C:151 12/5
CARBON TETRACHLORIDE (TCLP)	SN-846 METHOD 8240	ND	50	MC6/L	MC C:151 12/5
CHLOROBENZENE (TCLP)	SH-846 METHOD 8240	NO	50	MCG/L	MC C:151 12/5
CHLOROFORM (TCLP)	SW-846 METHOD 8240	ND	52	MCG/L	MC C:151 12/5
1.4-DICHLOROBENZENE (TCLP)	SN-846 METHOD 8240	ND	50	MCG/L	MC C:151 12/5
1.2-DICHLOROETHANE (TCLP)	SN-846 METHOD 8240	ND	50	MCG/L	MC C:151 12/5
1.1-DICHLOROETHYLENE (TCLP)		ND	50	MCG/L	MC C:151 12/5
METHYL ETHYL KETONE (TCLP)	SH-846 METHOD 8240	ND.	100	MCS/L	MC C:151 12/5
TETRACHLOROETHYLENE (TCLP)	SW-846 METHOD 8240	ND	53	MCG/L	MC C:151 12/5
TRICHLOROETHYLENE (TCLP)	SW-846 METHOD 8240	ND	54	MCS/L	MC C:151 12/5
VINYL CHLORIDE (TCLP)	SH-846 METHOD 8240	ND	100	MCG/L	MC C:151 12/5
O-CRESOL (TCLP)	SW-846 METHOD 8270 ACID FRACTION	ND	55	MCS/L	CH L:103 12/19
PENTACHLOROPHENOL (TCLP)	SW-846 METHOD 8270 ACID FRACTION	ND	95	MCG/L	CM L:103 12/19
	SM-846 METHOD 8270 ACID FRACTION	NO NO	40	MC6/L	CM L:103 12/19
	SW-846 METHOD 8270 ACID FRACTION	ND	47	MCG/L	CM L:103 12/19
M & P CRESOL (TCLP)	SM-846 METHOD 8270 ACID FRACTION	ND	118	MCG/L	CM L:103 12/19
HEXACHLOROBENZENE (TCLP)	SW-846 METHOD 8270 BASE/NEUTRALS	ND	47	MC6/L	CH L:103 12/19
	SW-846 METHOD 8270 BASE/NEUTRALS	ND	49	MC6/L	CM L:103 12/19
PYRIDINE (TCLP)	SW-846 METHOD 8270 BASE/NEUTRALS	ND	73	MCG/L	CH L:103 12/19
2,4-DINITROTOLUENE (TCLP)	SW-846 METHOD 8270 BASE/NEUTRALS	ND	42	MCG/L	CH L:103 12/19
HEXACHLOROETHANE (TCLP)	SW-846 METHOD 8270 BASE/NEUTRALS	ND	56	MCG/L	CH L:103 12/19
NITROBENZENE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	ND	56	MC6/L	CM L:103 12/19
EXTRACTION FOR TCLP ACID/EXT.		COMPLETED			DO 12/6
EXTRACTION FOR TCLP B/N	SN-846 HETHOD 8270	COMPLETED	· · · · · · · · · · · · · · · · · · ·		DO 12/6
CHLORDANE (TCLP)	SN-846 METHOD 8080	ND	2.0	MCG/L	GC3 C:119 12/12
ENDRIN (TCLP)	SN-846 HETHOD 8080	ND	0.20	MC6/L	6C3 C:119 12/12
HEPTACHLOR (TCLP)	SII-846 METHOD 8080	ND	0.20	MC6/L	GC3 C:119 12/12
LINDANE (TCLP)	SN-846 NETHOD 8080	ND	0.20	MCG/L	6C3 C:119 12/12
METHOXYCHLOR (TCLP)	SH-846 METHOB 8080	ND	0.20	MCG/L	6C3 C:119 12/12
TOXAPHENE (TCLP)	SN-846 METHOD 8080	ND	4.0	HCG/L	6C3 C:119 12/12
HEPTACHLOR EPOXIDE (TCLP)	SN-846 METHOD 8080	ND	0.20	MCG/L	6C3 C:119 12/12
EXTRACTION FOR TCLP PESTICIDE		EXTRACTED			ACM 12/6
2.4-D (TCLP)	SN-846 METHOD 8150	ND	0.20	MCG/L	6C3 C:121 12/12
2,4,5-TP (SILVEX) (TCLP)	SW-846 METHOD 8150	ND ND	0.20	HC6/L	6C3 C:121 12/12
Egigo // Material/ Model	OT UTO INCIDENCE VALUE		V 124		

#### ( CONTINUES ON NEXT PAGE )

REMARKS:

	24 DEC	1991			
EHC			CTM PROJ	JECT #: 91.	01401
900 ROUTE 146					
	12065				
			CTM Task	<b>*:</b> 911122	R
Attention: LAURIE WILLIA	AMS/BOB PASS				
Purchase Order Number: (				le No: 911	
Date Sampled: 11/21/91	11me: /:20 PM			eived: 11/	
Sampled By: WILLIAMS Sample Id: LAGOON 1-B	<b>*************************************</b>			on Method:	LUMPUSITE
Location : FRONTIER STOR	F NIARARA MAT		Matrix:	SUIL	
	WE BYGGING BETTS				
Parameters and Standard	Methodology Used	Results	PQL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE	Ε)			
EXTRACTION FOR TOLP HERE	BICIDESSN-846 METHOD 8150	EXTRACTED	······································		ACM 12/11
ARSENIC, BY TOLP	SW-846 METHOD 1311	W	0.11	MG/L	A4:21 12/13
BARIUM, BY TCLP	SN-846 METHOD 1311	0.38	0.050	MG/L	A4:21 12/13
CADMIUM, BY TOLP	SW-846 METHOD 1311	NO NO	0.025	MG/L	A4:22 12/17
TCLP EXTRACTION	SN-846 METHOD 1311	COMPLETED	A A44	\M* /!	D8:93 12/3
CHROMIUM, BY TCLP LEAD, BY TCLP	SN-846 METHOD 1311 SN-846 METHOD 1311	ND ND	0.011	MG/L	A4:21 12/13 `
ERCURY, BY TCLP	SH-846 METHOD 1311	שא	0.062	MG/L MG/L	A4:21 12/13 C4:77 12/11
SELENIUM, BY TOLP	SW-846 METHOD 1311	ND :	0.10	MG/L	A4:27 12/19
SILVER, BY TOLP	SN-846 METHOD 1311	ND	0.012	MG/L	A4:21 12/13
ACID DISESTION ON TOLP E		COMPLETED			D8:117 12/11
No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	700000000000000000000000000000000000000				
		V-144-144-144-144-144-144-144-144-144-14			
			······································		
REMARKS:					01931
		LEGEND: ( = LESS THAN	, ) = GREA	TER THAN, I	ND = NOT DETECTED NCG/L=PPB, NCG/G=PPH
		no/ko=rrn, nu n = RESULT IS			ווייים הייים

D = RESULT IS ( POL, BUT ) HOL

# CTM ANALYTICAL LABS, LTD

	Laboratory Anal 24 DEC 1	ysis Report			PAGE 20
EHC			CTM PRO	JECT #: 91.	01401
900 ROUTE 146					
CLIFTON PARK NY 120	65				
		· · · · · · · · · · · · · · · · · · ·	CTM Tas	k #: 911122	<u> </u>
Attention: LAURIE WILLIAMS/B	OB PASS		<del></del>		
Purchase Order Number: 63055	.001		CTM Same	ole No: 911	122R 06
Date Sampled: 11/21/91 Time	: 7:25 PH		Date Re	ceived: 11/	22/91
Sampled By : WILLIAMS			Collect	ion Method:	COMPOSITE
Sample Id: LAGOON 1-C			Matrix:	SOIL	
Location : FRONTIER STONE/NI	AGARA MAT.				
Parameters and Standard Meth	odology Used	Results	PQL	Unit	Analyst Reference
MERCURY PREPARATION - TOLP	SN-846 METHOD 1311	COMPLETED			D8:104 12/5
ZERO HEADSPACE EXTRACTION	SN-846 NETHOD 1311	EXTRACTED			ACH 12/1
BENZENE (TCLP)	SW-846 METHOD 8240	NO NO	50	MCG/L	MC C:151 12/5
CARBON TETRACHLORIDE (TCLP)	SN-846 NETHOD 8240	ND	50	MCG/L	MC C:151 12/5
CHLOROBENZENE (TCLP)	SH-846 METHOD 8240	ND	50	MCG/L	MC C:151 12/5
CHLOROFORM (TCLP)	SN-846 NETHOD 8240	NO NO	50	MCG/L	MC C:151 12/5
1,4-DICHLOROBENZENE (TCLP)	SW-846 METHOD 8240	ND ND	50	MCG/L	MC C:151 12/5
1,2-DICHLOROETHANE (TCLP)	SW-846 METHOD 8240	ND	50	MC6/L	MC C:151 12/5
1,1-DICHLOROETHYLENE (TCLP)	SH-846 METHOD 8240	NO NO	50	MCG/L	MC C:151 12/5
METHYL ETHYL KETONE (TCLP)	SM-846 METHOD 8240	ND	100	MCG/L	MC C:151 12/5
TETRACHLOROETHYLENE (TCLP)	SW-846 METHOD 8240	NO	50	MCG/L	MC C:151 12/5
TRICHLOROETHYLENE (TCLP)	SN-846 METHOD 8240	<b>ND</b>	50	MCG/L	MC C:151 12/5
VINYL CHLORIDE (TCLP)	SH-846 METHOD 8240	NO NO	100	MCG/L	MC C:151 12/5
O-CRESOL (TCLP)	SW-846 METHOD 8270 ACID FRACTION	NO NO	50	MC6/L	CH L:103 12/19
PENTACHLOROPHENOL (TCLP)	SH-846 METHOD 8270 ACID FRACTION	NO NO	84	MCG/L	CM L:103 12/19
2,4,5-TRICHLOROPHENOL (TCLP)	SW-846 METHOD 8270 ACID FRACTION	NO NO	42	MCG/L	CM L:103 12/19
2,4,6-TRICHLOROPHENGL (TCLP)	SW-846 METHOD 8270 ACID FRACTION	NO.	46	MCG/L	CH L:103 12/19
1 & P CRESOL (TCLP)	SN-846 METHOD 8270 ACID FRACTION	ND	108	MCS/L	CH L:103 12/19
HEXACHLOROBENZENE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	NO	47	HCG/L	CM L:103 12/19

				CHARLING TANK			1007		
	PENTACHLOROPHENOL (TCLP)	SH-846 M	ETHOD 8270	ACID FRACTION	NO NO	84	MCG/L	CM L:103 12/19	
	2,4,5-TRICHLOROPHENOL (TCLP)	SH-846 ME	ETHOD 8270	ACID FRACTION	NO NO	42	HCG/L	CM L:103 12/19	
	2,4,6-TRICHLOROPHENOL (TCLP)	SH-846 ME	ETHOD 8270	ACID FRACTION	ND NO	46	MCG/L	CH L:103 12/19	
	M & P CRESOL (TCLP)	SH-846 HE	THOO 8270	ACID FRACTION	ND ND	108	HC6/L	CH L:103 12/19	
_	HEXACHLOROBENZENE (TCLP)	SW-846 ME	ETHOD 8270	BASE/NEUTRALS	NO	47	HCG/L	CM L:103 12/19	
_	HEXACHLOROBUTADIENE (TCLP)	SM-846 ME	ETHOD 8270	BASE/NEUTRALS	NO NO	47	MC6/L	CH L:103 12/19	
	PYRIDINE (TCLP)	SW-846 ME	ETHOD 8270	BASE/NEUTRALS	<b>10</b>	75	MCG/L	CH L:103 12/19	
_	2,4-DINITROTOLUENE (TCLP)	SW-846 ME	THOD 8270	BASE/NEUTRALS	NO.	43	MC6/L	CH L:103 12/19	
	HEXACHLOROETHANE (TCLP)	SW-846 ME	ETHOD 8270	BASE/NEUTRALS	ND -	54	MCG/L	CH L:103 12/19	
	NITROBENZENE (TCLP)	SW-846 NE	THOD 8270 I	BASE/NEUTRALS	ND NO	52	MCG/L	CM L:103 12/19	
	EXTRACTION FOR TCLP ACID/EXT.	SH-846 ME	THOD 8270		COMPLETED			DO 12/6	
	EXTRACTION FOR TCLP B/N	SN-846 ME	THOD 8270		COMPLETED			DO 12/6	
_	CHLORDANE (TCLP)	SW-846 ME	THOD 8080		М	0.5	MCG/L	6C3 C:119 12/12	
	ENDRIN (TCLP)	SW-846 ME	THOO 8080		ND ND	0.20	MC6/L	6C3 C:119 12/12	
	HEPTACHLOR (TCLP)	SW-846 ME	0808 <b>CIDH</b> T		ND	0.20	MCG/L	6C3 C:119 12/12	
	LINDANE (TCLP)	SN-846 ME	THOD 8080		MD	0.20	HCS/L	6C3 C:119 12/12	
	METHOXYCHLOR (TCLP)	SH-846 ME	THOD 8080		W	0.20	MCG/L	6C3 C:119 12/12	
_	TOXAPHENE (TCLP)	SH-846 ME	OBOS CONTE		Ю	4.0	MCG/L	6C3 C:119 12/12	
_	HEPTACHLOR EPOXIDE (TCLP)		THOD 8080		ND ND	0.20	MC6/L	6C3 C:119 12/12	
	EXTRACTION FOR TCLP PESTICIDES	SNI-846 NE	THOD 8080		EXTRACTED			ACH 12/6	
	2,4-D (TCLP)	SH-846 ME	THOD 8150		ND	0.20	MC6/L	6C3 C:121 12/12	
_	2,4,5-TP (SILVEX) (TCLP)	SW-846 ME	THOD 8150		NÐ	0.20	MC6/L	6C3 C:121 12/12	

#### ( CONTINUES ON NEXT PAGE )

REMARKS:

01932

		<b>C</b> 7	7 DEG 1771					
EHC				CTM PROJECT #: 91.01401				
900 ROUTE 146								
CLIFTON PARK NY	12065							
Attention: LAURIE WILLIAMS/BOB PASS				CTM Task #: 911122R				
Purchase Order Number: 6	63055.001				CTM Sam	le No: 911	122R 06	
Date Sampled: 11/21/91 Time: 7:25 PM				Date Received: 11/22/91				
Sampled By: WILLIAMS				Collection Method: COMPOSITE				
Sample Id: LAGOON 1-C				Matrix: SOIL				
ocation : FRONTIER STOR	NE/NIAGARA MAT			~~~~ · · · · · · · · · · · · · · · · ·				
Parameters and Standard	Methodology U	sed		Results	PQL	Unit	Analyst Reference	
	( CONT.	INUED FROM PREVIOUS	S PAGE )					
XTRACTION FOR TOLP HERE	BICIDESSN-846	ETHOD 8150		EXTRACTED			ACM 12/11	
ARSENIC, BY TOLP	<del></del>	ETHOD 1311		NO	0.13	MG/L	A4:21 12/13	
SARIUM, BY TCLP		ETHOD 1311		0.43	0.050	M6/L	A4:21 12/13	
CADMIUM, BY TCLP		ETHOD 1311		0.012	0.005	MG/L	A4:22 12/17	
HROHIUM, BY TCLP		ETHOD 1311		ND	0.014	M6/L	A4:21 12/13	
CLP EXTRACTION		ETHOD 1311		COMPLETED	A 4=-		D8:93 12/3	
EAD, BY TOLP		ETHOD 1311		<u> </u>	0.070	M6/L	A4:21 12/13	
MERCURY, BY TCLP		ETHOD 1311		ND Nn	0.0004	MS/L	C4:77 12/11	
SELENIUM, BY TOLP SILVER, BY TOLP		ETHOD 1311 ETHOD 1311		ND ND	0.10	MG/L	A4:27 12/19	
ACID DISESTION ON TOLP E				COMPLETED	0.012	MG/L	A4:21 12/13 D8:117 12/11	
REMARKS:							01022	
							01933	
			LEGEND:	( = LESS THAN HG/KG=PPN, HC D = RESULT IS	S/KS=PPB,	MG/L≕PPM, N	8D = NOT DETECTED NCG/L=PPB, NCG/G=PPH	

01944

HC.			CTM PRO	JECT #: 91.0	01401
00 ROUTE 146					
LIFTON PARK NY 1206	5				
			CIM Tasi	¢ <b>#:</b> 9111221	
ttention: LAURIE WILLIAMS/80	B PASS				The state of the s
urchase Order Number: 63055.			CTM Same	ole No: 911	122R 09
ate Sampled: 11/21/91 Time:			Date Re	eived: 11/2	22/91
ampled By: WILLIAMS/BABLIN			Collect	ion Method:	COMPOSITE
Sample Id: LASOON 2-A			Matrix:	SOIL	
ocation : FRONTIER STONE/NIA	SARA MAT.		······································		
Danadana and Cinadand Make.	J. 1 1	D=14=	nov	11-11	A1A D-(
Parameters and Standard Method	ootogy used	Results	POL	<u>Unit</u>	Analyst Reference
MERCURY PREPARATION - TOLP	SN-846 METHOD 1311	COMPLETED			D8:104 12/5
ZERO HEADSPACE EXTRACTION	SN-846 METHOD 1311	EXTRACTED			ACM 12/1
BENZENE (TCLP)	SN-846 NETHOD 8240	ND ND	50	MC6/L	MC C:151 12/5
	SN-846 METHOD 8240	ND	50	MCG/L	MC C:151 12/5
CHLOROBENZENE (TCLP)	SH-846 METHOD 8240	ON CON	50	MCG/L	MC C:151 12/5
HLOROFORM (TCLP)	SN-846 METHOD 8240	ND NO	50	MCG/L	MC C:151 12/5
XTRACTION FOR TCLP PESTICIDES		EXTRACTED			ACN 12/6
	SW-846 METHOD 8240	ND ND	50	MCS/L	MC C:151 12/5
	SN-846 METHOD 8240	ЖD	50	MCG/L	HC C:151 12/5
,1-DICHLOROETHYLENE (TCLP)	SM-846 METHOD 8240	ND	50	MCS/L	MC C:151 12/5
ETHYL ETHYL KETONE (TCLP)	SH-846 METHOD 8240	MD CDM	100	HCG/L	MC C:151 12/5
ETRACHLORDETHYLENE (TOLP)	SH-846 METHOD 8240	ND	51	MCG/L	MC C:151 12/5
RICHLOROETHYLENE (TCLP)	SN-846 METHOD 8240	ON .	51	MCG/L	MC C:151 12/5
VINYL CHLORIDE (TCLP)	SN-846 METHOD 8240	ND	100	MCG/L	MC C:151 12/5
I-CRESOL (TCLP)	SW-846 METHOD 8270 ACID FRACTION	<u>ND</u>	53	MCG/L	CM L:103 12/19
ENTACHLOROPHENOL (TCLP)	SN-846 METHOD 8270 ACID FRACTION	ND	92	MCG/L	CM L:103 12/19
4.5-TRICHLOROPHENOL (TCLP)	SH-846 METHOD 8270 ACID FRACTION	NO	47	MCG/L	CM L:103 12/19
4,6-TRICHLOROPHENOL (TCLP)	SN-846 METHOD 8270 ACID FRACTION	NO	47	MCG/L	CM L:103 12/19
1 & P CRESOL (TCLP)	SW-846 METHOD 8270 ACID FRACTION	ND NO	114	MCG/L	CH L:103 12/19
EXACHLOROBENZENE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	<b>X</b> 0	46	MCG/L	CM L:103 12/19
EXACHLOROBUTADIENE (TCLP)	SW-846 METHOD 8270 BASE/NEUTRALS	MD MD	49	MCG/L	CM L:103 12/19
PYRIDINE (TOLP)	SN-846 METHOD 8270 BASE/NEUTRALS	ND CM	77	MCG/L	CM L:103 12/19
4-DINITROTOLUENE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	ND NO	40	MCG/L	CM L:103 12/19
EXACHLORDETHANE (TOLP)	SW-846 METHOD 8270 BASE/NEUTRALS	NED	59	MCS/L	CM L:103 12/19
ITROBENZENE (TCLP)	SH-846 METHOD 8270 BASE/NEUTRALS	OAO	55	MCG/L	CM L:103 12/19
XTRACTION FOR TOLP B/N	SW-846 METHOD 8270	COMPLETED			DO 12/6
XTRACTION FOR TOLP ACID/EXT.		COMPLETED			DO 12/6
HLORDANE (TCLP)	SM-846 METHOD 8080	ND ND	5.0	MCG/L	6C3 C:119 12/12
NORIN (TCLP)	SN-846 METHOD 8080	ND NO	0.20	MCG/L	GC3 C:119 12/12
EPTACHLOR (TCLP)	SN-846 METHOD 8090	ND NO	0.20	MCS/L	6C3 C:119 12/12
INDANE (TCLP)	SH-846 METHOD 8080	ND ND	0.20	MCG/L	6C3 C:119 12/12
ETHOXYCHLOR (TCLP)	SN-846 METHOD 8080	NED NED	0.20	MCS/L	6C3 C:119 12/12
OXAPHENE (TCLP)	SH-846 METHOD 8080	ND ND	4.0	MCG/L	6C3 C:119 12/12
EPTACHLOR EPOXIDE (TCLP)	SN-846 METHOD 8080	ND NO	0.20	MCS/L	6C3 C:119 12/12
2,4-D (TCLP)	SN-846 METHOD 8150	ND ND	0.20	MCG/L	GC3 C:121 12/12
4,5-TP (SILVEX) (TCLP)	SW-846 METHOD 8150	OS OS	0.20	MCS/L	6C3 C:121 12/12
	( CONTINUES ON NEXT PAGE )			· · · · · · · · · · · · · · · · · · ·	
	CONTINUED ON PEAT PART )				

900 ROUTE 146 CLIFTON PARK NY 12065 Attention: LAURIE WILLIAMS/BOB PASS  Purchase Order Number: 63055.001 Date Sampled: 11/21/91 Time: 6:05 PM Sampled By: WILLIAMS/BABLIN Sample Id: LAGOON 2-A Location: FRONTIER STONE/NIAGARA MAT.  Parameters and Standard Methodology Used	Results	CTM PROJECT #:  CTM Task #: 91  CTM Sample No:  Date Received: Collection Met Matrix: SOIL	1122R 911122R 09
Attention: LAURIE WILLIAMS/BOB PASS  Purchase Order Number: 63055.001  Date Sampled: 11/21/91 Time: 6:05 PM  Sampled By: WILLIAMS/BABLIN  Sample Id: LAGOON 2-A  Location: FRONTIER STONE/NIABARA MAT.  Parameters and Standard Methodology Used	Results	CTM Sample No: Date Received: Collection Met	911122R 09 11/22/91
Purchase Order Number: 63055.001  Date Sampled: 11/21/91 Time: 6:05 PM  Sampled By: WILLIAMS/BABLIN  Sample Id: LAGOON 2-A  Location: FRONTIER STONE/NIABARA MAT.  Parameters and Standard Methodology Used	Results	CTM Sample No: Date Received: Collection Met	911122R 09 11/22/91
Purchase Order Number: 63055.001  Date Sampled: 11/21/91 Time: 6:05 PM  Sampled By: WILLIAMS/BABLIN  Sample Id: LAGOON 2-A  Location: FRONTIER STONE/NIABARA MAT.  Parameters and Standard Methodology Used	Results	Date Received: Collection Met	11/22/91
Date Sampled: 11/21/91 Time: 6:05 PM Sampled By : WILLIAMS/BABLIN Sample Id: LAGOON 2-A Location : FRONTIER STONE/NIAGARA MAT.  Parameters and Standard Methodology Used	Results	Date Received: Collection Met	11/22/91
Sampled By : WILLIAMS/BABLIN Sample Id: LAGOON 2-A Location : FRONTIER STONE/NIASARA MAT.  Parameters and Standard Methodology Used	Results	Collection Met	
Sample Id: LAGOON 2-A Location : FRUNTIER STONE/NIABARA MAT.  Parameters and Standard Methodology Used	Results		hod: COMPOSITE
Location : FRONTIER STONE/NIABARA MAT.  Parameters and Standard Methodology Used	Results	Matrix: SOIL	
Parameters and Standard Methodology Used	Results		
	Results		
		PQL Un	it Analyst Reference
( CONTINUED FROM PREVIOUS PAGE )			
EXTRACTION FOR TCLP HERBICIDESSW-846 METHOD 8150	EXTRACTED		ACM 12/11
ARSENIC, BY TCLP SM-846 METHOD 1311	ND NO	0.14 MG/L	
BARIUM, BY TCLP SN-846 METHOD 1311	0.32	0.050 MG/L	
CADMIUM, BY TCLP SW-846 METHOD 1311	0.005	0.005 MG/L	
CHRONIUM, BY TCLP SH-846 METHOD 1311	NO.	0.013 MG/L	
TCLP EXTRACTION SW-846 METHOD 1311	COMPLETED		D8:93 12/3
LEAD, BY TCLP SW-846 METHOD 1311	מא	0.069 MG/L	
MERCURY, BY TCLP SW-846 METHOD 1311	ND	0.0004 MG/L	
SELENIUM, BY TCLP SW-846 METHOD 1311	MD	0.10 MG/L	
SILVER, BY TOLP SM-846 METHOD 1311	ND ND	0.012 MG/L	
ACID DISESTION ON TOLP EXTRACTSN-846 3010	COMPLETED		D8:117 12/11
REMARKS:			
			01945
LEGE	MG/KG=PPM, MC	, ) = GREATER TH 6/K6=PPB, MG/L=P ( PQL, BUT ) MD	AN, NO = NOT DETECTED PM, MCG/L=PPB, MCG/G=PPM

01946

			CTM_PROJ	ECT #: 91.0	01401
900 ROUTE 146					
CLIFTON PARK NY 1206	<u> </u>		CTM Tael	#: 911122E	
Attention: LAURIE WILLIAMS/BO	B PASS		J.11 1031	111255	
Purchase Order Number: 63055.	001		CTM Samo	le No: 9111	22R 10
Date Sampled: 11/21/91 Time:	5:45 PH		Date Rec	eived: 11/2	2/91
Sampled By: WILLIAMS/BABLIN			Collecti	on Method:	COMPOSITE
Sample Id: LAGOON 2-B			Matrix:	SOIL	
Location : FRONTIER STONE/NIA	GARA MAT.				
Parameters and Standard Metho	dology Used	Results	POL	Unit	Analyst Reference
MERCURY PREPARATION - TOLP	SW-846 METHOD 1311	COMPLETED			D8:104 12/5
ZERO HEADSPACE EXTRACTION	SW-846 METHOD 1311	COMPLETED			DO 12/3
BENZENE (TCLP)	SN-846 METHOD 8240	ND	50 -	MCG/L	HC C:151 12/5
CARBON TETRACHLORIDE (TCLP)	SN-846 NETHOD 8240	ND	50	MCG/L	MC C:151 12/5
CHLOROBENZENE (TCLP):	SN-846 METHOD 8240	ND	50	MCG/L	MC C:151 12/5
EXTRACTION FOR TCLP PESTICIDES		EXTRACTED			ACH 12/6
CHLORDFORM (TCLP)	SM-846 METHOD 8240	NO	51	MCG/L	MC C:151 12/5
1,4-DICHLOROBENZENE (TOLP)	SN-846 METHOD 8240	NO NO	50	MCS/L	MC C:151 12/5
1,2-DICHLOROETHANE (TCLP)	SN-846 METHOD 8240	ND	50	MCS/L	MC C:151 12/5
1,1-DICHLOROETHYLENE (TCLP)	SN-846 METHOD 8240	NŪ.	_50	MCS/L	MC C:151 12/5
METHYL ETHYL KETONE (TCLP)	SH-846 METHOD 8240	ND .	100	MCG/L	MC C:151 12/5
TETRACHLOROETHYLENE (TCLP)	SN-846 METHOD 8240	ND ND	53	MC6/L	MC C:151 12/5
TRICHLOROETHYLENE (TCLP)	SW-846 METHOD 8240	ND	53	MC6/L	HC C:151 12/5
VINYL CHLORIDE (TCLP)	SN-846 METHOD 8240	NO	100	MC6/L	MC C:151 12/5
O-CRESOL (TCLP)	SN-846 METHOD 8270 ACID FRACTION	ND NO	<u>51</u>	MCG/L	CH L:103 12/19
PENTACHLOROPHENOL (TCLP)	SH-846 METHOD 8270 ACID FRACTION	<u>ND</u>	85	MC6/L	CH L:103 12/19
2.4.5-TRICHLOROPHENOL (TCLP)	SM-846 METHOD 8270 ACID FRACTION	ND ND	4 <b>4</b>	MCG/L	CH L:103 12/19
2.4.6-TRICHLOROPHENOL (TCLP)	SN-846 METHOD 8270 ACID FRACTION	NO NO	45	MCG/L	CH L:103 12/19
M & P CRESOL (TCLP)	SN-846 METHOD 8270 ACID FRACTION	<u> </u>	115	MC6/L	CH L:103 12/19
HEXACHLOROBENZENE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	NO NO	45	MC6/L	CM L:103 12/19
HEXACHLOROBUTADIENE (TCLP)	SM-846 METHOD 8270 BASE/NEUTRALS	ND ND	46	MC6/L	CM L:103 12/19
PYRIDINE (TCLP) 2,4-DINITROTOLUENE (TCLP)	SH-846 METHOD 8270 BASE/NEUTRALS SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	51 40	MCS/L	CH L:103 12/19 CH L:103 12/19
HEXACHLOROETHANE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	<del>40</del> 56	MC6/L MC6/L	CM L:103 12/19
NITROBENZENE (TCLP)	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	52	MC6/L	CH L:103 12/19
EXTRACTION FOR TCLP B/N	SW-846 METHOD 8270 BHSE/REUTOHLS	COMPLETED	JL.	IND/L	DO 12/6
EXTRACTION FOR TCLP ACID/EXT.		COMPLETED			DO 12/6
CHLORDANE (TCLP)	SH-846 METHOD 8080	ND ND	2.0	MCG/L	6C3 C:120 12/12
ENDRIN (TCLP)	SN-846 METHOD 8080	ND	0.20	MC6/L	6C3 C:120 12/12
HEPTACHLOR (TCLP)	SN-846 METHOD 8080	ND	0.20	MCS/L	6C3 C:120 12/12
LINDANE (TCLP)	SW-846 METHOD 8080	ND	0.20	MC6/L	6C3 C:120 12/12
METHOXYCHLOR (TCLP)	SN-846 HETHOD 8080	ND	0.20	MC6/L	6C3 C:120 12/12
TOXAPHENE (TCLP)	SH-846 METHOD 8080	D	4.0	MCG/L	6C3 C:120 12/12
HEPTACHLOR EPOXIDE (TOLP)	SN-846 METHOD 8080	ND	0.20	MCS/L	6C3 C:120 12/12
2,4-D (TCLP)	SN-846 METHOD 8150	ND	0.20	MC6/L	GC3 C:121 12/12
2,4,5-TP (SILVEX) (TCLP)	SH-846 METHOD 8150	ND DA	0.20	MCS/L	6C3 C:121 12/12
	( CONTINUES ON NEXT PASE )				

EHC			CTM PROJECT #: 9	31.01401
900 ROUTE 146				
CLIFTON PARK NY	12065			
			CTM Task #: 9111	122R
Attention: LAURIE WILLIA	MS/BOB PASS			
Purchase Order Number: 6	3055.001		CTM Sample No: 9	911122R 10
Date Sampled: 11/21/91	Time: 5:45 PM		Date Received: 1	
Rampled By : WILLIAMS/E	ABLIN		Collection Metho	od: COMPOSITE
Sample Id: LAGOON 2-B			Matrix: SOIL	
ocation : FRONTIER STON	E/NIAGARA MAT.			
Parameters and Standard	Methodology Used	Results	PQL Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS (	PAGE )		
XTRACTION FOR TOLP HERB	ICIDESSN-846 METHOD 8150	EXTRACTED		ACM 12/11
PRSENIC, BY TCLP	SW-846 METHOD 1311	NO	0.15 MG/L	A4:21 12/13
BARIUM, BY TCLP	SN-846 METHOD 1311	0.28	0.050 MG/L	A4:21 12/13
CADMIUM, BY TOLP	SW-846 METHOD 1311	NO	0.007 MG/L	A4:22 12/17
HROMIUM, BY TCLP	SW-846 METHOD 1311	NO.	0.013 MG/L	A4:21 12/13
CLP EXTRACTION	SW-846 METHOD 1311	COMPLETED		D8:99 12/4
EAD, BY TCLP	SW-846 METHOD 1311	ND NO	0.073 MG/L	A4:21 12/13
ERCURY, BY TOLP	SW-846 METHOD 1311	NO	0.0004 MG/L	C4:77 12/11
ELENIUM, BY TOLP	SW-846 METHOD 1311	<b>ND</b>	0.10 MG/L	A4:27 12/19
SILVER, BY TOLP	SW-846 METHOD 1311	XD NO	0.012 MG/L	A4:21 12/13
ACID DISESTION ON TOLP E	XTRACTSW-846 3010	COMPLETED		D8:117 12/11
	100° 000° 000° 000° 000° 000° 000° 000°			
-				
REMARKS:				<u> </u>
				01947
		LEGEND: ( = LESS THAN	. ) = GREATER THAN	. NO = NOT DETECTED

D = RESULT IS ( POL, BUT ) HOL

EHC			CTM PRO	JECT #: 91.	01401
900 ROUTE 146					
CLIFTON PARK NY 1206	5				
		· · · · · · · · · · · · · · · · · · ·	CTM Tas	k #: 911122	R
Attention: LAURIE WILLIAMS/BC	P PASS	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
Purchase Order Number: 63055.	001		CTM Sage	ole No: 911	1228 11
Date Sampled: 11/21/91 Time:				ceived: 11/	
Sampled By : WILLIAMS/BABLIN				ion Method:	
Sample Id: LAGOON 2-C			Matrix:		
Location : FRONTIER STONE/NIA	SARA MAT.				
Parameters and Standard Metho	dology Used	Results	PQL	Unit	Analyst Reference
MERCURY PREPARATION - TOLP	SN-846 METHOD 1311	COMPLETED			D8:104 12/5
ZERO HEADSPACE EXTRACTION	SN-846 METHOD 1311	COMPLETED			DO 12/3
BENZENE (TCLP)	SH-846 METHOD 8240	ND	50	MCG/L	MC C:152 12/6
CARBON TETRACHLORIDE (TCLP)	SN-846 METHOD 8240	ON.	50	MCG/L	MC C:152 12/6
CHLOROBENZENE (TCLP)	SN-846 METHOD 8240	NO	50	MCG/L	MC C:152 12/6
EXTRACTION FOR TCLP PESTICIDE	SSN-846 NETHOD 8080	EXTRACTED			ACH 12/6
CHLOROFORM (TCLP)	SM-846 METHOD 8240	ND	50	MC6/L	MC C:152 12/6
1,4-DICHLOROBENZENE (TCLP)	SH-846 METHOD 8240	NO	50	MC6/L	MC C:152 12/6
1,2-DICHLOROETHANE (TCLP)	SH-846 METHOD 8240	ND	50	MCG/L	MC C:152 12/6
1,1-DICHLOROETHYLENE (TCLP)	SN-846 METHOD 8240	ND	50	MC6/L	MC C:152 12/6
METHYL ETHYL KETONE (TCLP)	SN-846 NETHOD 8240	ND	100	HCS/L	MC C:152 12/6
TETRACHLOROETHYLENE (TCLP)	SN-846 METHOD 8240	ND	_50	MCS/L	MC C:152 12/6
TRICHLOROETHYLENE (TCLP)	SN-846 METHOD 8240	NO	50	MCG/L	MC C:152 12/6
VINYL CHLORIDE (TCLP)	SN-846 METHOD 8240	<u>NO</u>	100	MCG/L	MC C:152 12/6
O-CRESOL (TCLP)	SH-846 METHOD 8270 ACID FRACTION	<u>ND</u>	51	MCG/L	CH L:104 12/19
PENTACHLOROPHENOL (TCLP)	SH-846 METHOD 8270 ACID FRACTION	<u>ND</u>	90	MCG/L	CH L:104 12/19
2.4.5-TRICHLOROPHENOL (TCLP)	SH-846 METHOD 8270 ACID FRACTION	ND	42	MCG/L	CH L:104 12/19
2,4,6-TRICHLOROPHENOL (TCLP) N & P CRESOL (TCLP)	SN-846 METHOD 8270 ACID FRACTION	<u>ND</u>	45	MCG/L	CH L:104 12/19
HEXACHLOROBENZENE (TOLP)	SH-846 METHOD 8270 ACID FRACTION SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	110	MC6/L	CH L:104 12/19
HEXACHLOROBUTADIENE (TCLP)	SII-846 NETHOD 8270 BASE/NEUTRALS	ND ND	44 48	MCG/L	CM L:104 12/19
PYRIDINE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	87	MC6/L MC6/L	CH L:104 12/19 CH L:104 12/19
2,4-DINITROTOLUENE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	40	MCS/L	CM L:104 12/19
HEXACHLOROETHANE (TOLP)	SW-846 METHOD 8270 BASE/NEUTRALS	NED NED	56	MC6/L	CM L:104 12/19
NITROBENZENE (TCLP)	SH-846 METHOD 8270 BASE/NEUTRALS	ND	54	MC6/L	CH L:104 12/19
EXTRACTION FOR TCLP ACID/EXT.		COMPLETED			DO 12/6
EXTRACTION FOR TCLP B/N	SW-846 METHOD 8270	COMPLETED	<del></del>		DO 12/6
CHLORDANE (TCLP)	SH-846 METHOD 8080	NO	2.0	MCG/L	6C3 C:121 12/12
ENDRIN (TCLP)	SN-846 METHOD 8080	NO	0.20	MCS/L	6C3 C:121 12/12
EPTACHLOR (TCLP)	SN-846 METHOD 8080	ND	0.20	MCS/L	6C3 C:121 12/12
LINDANE (TCLP)	SW-846 METHOD 8080	MO	0.20	MCG/L	6C3 C:121 12/12
METHOXYCHLOR (TCLP)	SN-846 METHOD 8080	Ю	0.20	MCS/L	6C3 C:121 12/12
TOXAPHENE (TOLP)	SN-846 HETHOD 8080	ND NO	4.0	MCG/L	GC3 C:121 12/12
HEPTACHLOR EPOXIDE (TOLP)	SN-846 METHOD 8080	ND	0.20	MCS/L	6C3 C:121 12/12
2,4-B (TCLP)	SN-846 METHOD 8150	ND NO	0.20	MCS/L	6C3 C:121 12/12
2,4,5-TP (SILVEX) (TCLP)	SH-846 METHOD 8150	ND	0.20	MCS/L	6C3 C:121 12/12
	( CONTINUES ON NEXT PAGE )				
REMARKS:					
			-		01948

EHC			CTM PROJ	ECT #: 91.0	01401
900 ROUTE 146					
CLIFTON PARK NY	12065				
Attention: LAURIE WILLI	AMC/DID PACC		CTM Task	<b>*:</b> 911122	R
ALCERCIONS CHORIC MILLI	niaruus Frog				<u></u>
Purchase Order Number:			le No: 911		
Date Sampled: 11/21/91				eived: 11/a	
Sampled By : WILLIAMS/	RURTIN			on Method:	CUMPOSITE
Sample Id: LAGOON 2-C	AF AITAGADA MAT		Matrix:	SUL	
_ocation : FRONTIER STO	NE/NIASARA MAT.		· · · · · · · · · · · · · · · · · · ·	W.W. L.	
Parameters and Standard	Methodology Used	Results	PQL.	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE	)			
EXTRACTION FOR TOLP HER	BICIDESSN-846 METHOD 8150	EXTRACTED			ACM 12/11
ARSENIC, BY TOLP	SN-846 METHOD 1311	NO NO	0.14	MG/L	A4:21 12/13
BARIUM, BY TCLP	SN-846 METHOD 1311	0.31	0.050	M6/L	A4:21 12/13
CADMIUM, BY TOLP	SN-846 METHOD 1311	0.010	0.005	MG/L	A4:22 12/17
TCLP EXTRACTION	SW-846 METHOD 1311	COMPLETED			D8:99 12/4
CHROMIUM, BY TCLP	SW-846 METHOD 1311	ND	0.014	MG/L	A4:21 12/13
EAD, BY TOLP	SW-846 METHOD 1311	ND CN	0.081	MG/L	A4:21 12/13
ERCURY, BY TOLP	SW-846 METHOD 1311	MO	0.0004	MG/L	C4:77 12/11
SELENIUM, BY TCLP	SW-846 METHOD 1311	ND	0.10	MG/L	A4:27 12/19
SILVER, BY TOLP	SW-846 METHOD 1311	ND	0.015	HG/L	A4:21 12/13
ACID DIBESTION ON TOLP	EXTRACTSW-846 3010	COMPLETED			D8:117 12/11
			· · · · · · · · · · · · · · · · · · ·		
REMARKS:					
			· · · · · · · · · · · · · · · · · · ·		01949
					. 01343

D = RESULT IS ( POL, BUT ) HOL

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HC			CTM PRO	JECT #: 91.	01401
900 ROUTE 146					
CLIFTON PARK NY 1206	5				
			CTM Tasi	k #: 911122	
Attention: LAURIE WILLIAMS/BC	B PASS				
Purchase Order Number: 63055.				le No: 911	
Date Sampled: 11/21/91 Time:				eived: 11/6	
Sampled By: WILLIAMS/BABLIN				ion Method:	CUMPUSITE
Sample Id: EHC-3	RABA LIA		Matrix:	WATER	1944-1944-1944-1944-1944-1944-1944-1944
Location : FRONTIER STONE/NIA	GARCA MAI.		<del></del>		
Parameters and Standard Metho	deleny liend	Results	PQL	Unit	Analyst Reference
rdidaeters and Standard retire	ootogy usea	7,6301(5		OULC	HIMITYS! RETEI EILE
ACID DIGESTON - FURNACE	SH-846 3020	COMPLETED			D8:95 12/3
TARGET COMPOUND LIST VOLATILE		COMPLETED		·····	MC D:2-3 11/26
MANGANESE	ICP, EPA METHOD 200.7	200	10.0	MC6/L	A4:18 12/11
CHLOROMETHANE	SN-846 HETHOD 8240	ND ND	10	MCG/L	MC D:2-3 11/26
VINYL CHLORIDE	SW-846 METHOD 8240	ND	10	MCS/L	MC D:2-3 11/26
BROMOMETHANE	SN-846 METHOD 8240	D	10	MCS/L	MC D:2-3 11/26
CHLOROETHANE	SW-846 METHOD 8240	ND	10	MCG/L	MC D:2-3 11/26
1.1-DICHLOROETHANE	SW-846 METHOD 8240	ND ND	5	MCS/L	MC D:2-3 11/26
MERCURY DISESTION - AQUEOUS		COMPLETED			D8:104 12/5
METHYLENE CHLORIDE	SM-846 METHOD 8240	D D	_5	MC6/L	MC D:2-3 11/26
CYANIDE. TOTAL W/ BISTILLATIO		ND ON	0.01	MG/L	JBC 12/3
TRANS 1.2-DICHLORDETHENE	SN-846 NETHOD 8240	D	5	MC6/L	MC D:2-3 11/26
CIS 1,2-DICHLOROETHENE	SW-846 METHOD 8240	- ON	5	MCG/L	MC D:2-3 11/26
1.1-DICHLORDETHENE	SN-846 METHOD 8240	NO	5	MCG/L	MC D:2-3 11/26
CHLOROFORM	SW-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
1.1.1-TRICHLDROETHANE	SH-846 METHOD 8240	ND	5	MCS/L	MC D:2-3 11/26
CARBON TETRACHLORIDE	SW-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
BENZENE	SN-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
1,2-DICHLOROETHANE	SW-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
TRICHLOROETHENE	SN-846 METHOD 8240	NO	5	MC6/L	MC D:2-3 11/26
1,2-DICHLOROPROPANE	SN-846 METHOD 8240	D	5	MC6/L	MC D:2-3 11/26
BRONODICHLOROMETHANE	SN-846 METHOD 8240	D	5	MC6/L	MC D:2-3 11/26
TRANS-1,3-DICHLOROPROPENE	SN-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
TOLUENE	SW-846 NETHOD 8240	D	5	MC6/L	MC D:2-3 11/26
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	D	5	MCG/L	MC D:2-3 11/26
1,1,2-TRICHLOROETHANE	SH-846 METHOD 8240	מא	5	MCS/L	MC D:2-3 11/26
IRON	ICP, EPA METHOD 200.7	4,400	100	MCG/L	A4:18 12/11
TETRACHLOROETHENE	SN-846 METHOD 8240	NO	5	MCG/L	MC D:2-3 11/26
DIBROMOCHLOROMETHANE	SN-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
CHLOROBENZENE	SN-846 METHOD 8240	В	5	MCG/L	MC D:2-3 11/26
ETHYL <b>BENZENE</b>	S <del>N 84</del> 6 METHOD 8240	D	5	MCG/L	MC D:2-3 11/26
BROMOFORN	SN-846 METHOD 8240	MD	5	MC6/L	MC D:2-3 11/26
EXTRACTION FOR TCL - ACIDS		EXTRACTED			DO 11/26
1,1,2,2-TETRACHLORDETHANE	SN-846 METHOD 8240	NO	5	MCG/L	MC D:2-3 11/26
STYREME	SN-846 METHOD 8240	D	5	MCG/L	MC D:2-3 11/26
acet <b>one</b>	SN-846 METHOD 8240	15	10	MC6/L	HC D:2-3 11/26
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EHC			CTM_PRO	JECT #: 91.	01401
900 ROUTE 146	· •				
CLIFTON PARK NY 1206	<b>S</b>		OTH Tail		<b>A</b>
Attention: LAURIE WILLIAMS/BO	BR PASS		LIN IAS	k #: 911122	<u> </u>
THE PROPERTY OF MAINTAININGS OF	EX. LINX				
Purchase Order Number: 63055	.001		CTM Same	ole No: 911	122R 14
Date Sampled: 11/21/91 Time:				ceived: 11/	
Sampled By: WILLIAMS/BABLIN				ion Method:	
Sample Id: LAGOON 3-A			Matrix:		
Location : FRONTIER STONE/NIA	GARA MAT.	· · · · · · · · · · · · · · · · · · ·			
Parameters and Standard Metho	dology Used	Results	POL	Unit	Analyst Reference
FERCURY PREPARATION - TOLP	SH-846 METHOD 1311	COMPLETED			D8:104 12/5
ZERO HEADSPACE EXTRACTION BENZENE (TCLP)	SH-846 NETHOD 1311 SH-846 NETHOD 8240	COMPLETED ND	50	MC6/L	00 12/4 HC C-152 12/6
CARBON TETRACHLORIDE (TCLP)	SN-846 METHOD 8240	ND ND	50 50	MCG/L	MC C:152 12/6 MC C:152 12/6
CHLOROBENZENE (TCLP)	SN 846 METHOD 8240	ND ND	50 50	MCS/L	MC C:152 12/6
EXTRACTION FOR TOLP PESTICIDE		EXTRACTED			ACM 12/6
CHLOROFORM (TCLP)	SM-846 METHOD 8240	ND NO	50	MCG/L	MC C:152 12/6
1,4-DICHLOROBENZEME (TCLP)	SN-846 METHOD 8240	ND	50	MCS/L	MC C:152 12/6
,2-DICHLOROETHANE (TCLP)	SM-846 METHOD 8240	ND	50	MC6/L	MC C:152 12/6
,1-DICH ORDETHYLENE (TOLP)	SW-846 METHOD 8240	ND	50	MCG/L	MC C:152 12/6
ETHYL ETHYL KETONE (TCLP)	SN-846 NETHOD 8240	ND	100	MCG/L	MC C:152 12/6
ETRACHLOROETHYLENE (TCLP)	SW-846 METHOD 8240	<u> ND</u>	50	HC6/L	MC C:152 12/6
RICHLOROETHYLENE (TOLP)	SW-846 METHOD 8240	<u>ND</u>	50	MCS/L	MC C:152 12/6
VINYL CHLORIDE (TCLP)	SW-846 METHOD 8240	<u></u>	100	MC6/L	MC C:152 12/6
H-CRESOL (TCLP)	SW-846 METHOD 8270 ACID FRACTION	MD	56	MCG/L	CH L:100 12/17
ENTACHLOROPHENOL (TCLP)	SH-846 METHOD 8270 ACID FRACTION	MD ND	93	MC6/L	CM L:104 12/19
2.4.5-TRICHLOROPHENOL (TCLP) 2.4.6-TRICHLOROPHENOL (TCLP)	SN-846 METHOD 8270 ACID FRACTION SN-846 METHOD 8270 ACID FRACTION	ND ND	44 48	MC6/L MC6/L	CH L:104 12/19
1 & P CRESOL (TCLP)	SW-846 METHOD 8270 ACID FRACTION	ND ND	120	MCS/L	CH L:104 12/19 CH L:104 12/19
EXACHLOROBENZENE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	49	MC6/L	CM L:104 12/19
EXACHLOROBUTADIENE (TCLP)	SW-846 METHOD 8270 BASE/NEUTRALS	ND ND	48	HC6/L	CH L:104 12/19
YRIDINE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	ND	65 	MCS/L	CN L:104 12/19
4-DINITROTOLUENE (TCLP)	SW-846 METHOD 8270 BASE/NEUTRALS	ND OW	45	MCG/L	CH L:104 12/19
EXACHLOROETHANE (TOLP)	SH-846 METHOD 8270 BASE/NEUTRALS	ND	61	MCS/L	CH L:104 12/19
IITROBENZENE (TCLP)	SH-846 METHOD 8270 BASE/NEUTRALS	ND	58	MCG/L	CH L:104 12/19
EXTRACTION FOR TOLP ACID/EXT.		COMPLETED			DO 12/6
XTRACTION FOR TCLP B/N	SN-846 METHOD 8270	COMPLETED			DO 12/6
HLORDANE (TOLP)	SN-846 METHOD 8080	ND	2.0	MCG/L	GC3 C:120 12/12
NDRIN (TCLP)	SH-846 METHOD 8080		0.20	MCG/L	6C3 C:120 12/12
EPTACHLOR (TCLP)	SH-846 METHOD 8080	<u>10</u>	0.20	HCS/L	6C3 C:120 12/12
INDANE (TCLP)	SH-846 METHOD 8080	ND ND	0.20	MC6/L	6C3 C:120 12/12
ethoxychlor (tclp) Oxaphene (tclp)	SH-846 METHOD 8080 SH-846 METHOD 8080	ND ND	0.20	MCS/L	6C3 C:120 12/12
EPTACHLOR EPOXIDE (TOLP)	SH-846 METHOD 8080	ND ND	4.0	MCG/L	6C3 C:120 12/12
4-0 (TCLP)	SN-846 METHOD 8150	MD	0.20	MCG/L	6C3 C:120 12/12
,4,5-TP (SILVEX) (TCLP)	SN-846 METHOD 8150	ND NO	0.20	MCG/L MCG/L	6C3 C:121 12/12 6C3 C:121 12/12
g - gw 12 - NMAN-FINE / NI-MAN /	UN UTU TRETTING DIQU	, co	VIEU	/RO/L	000 CHEL 1E/1E
	( CONTINUES ON NEXT PAGE )				
REMARKS:					O L O C D
					01960

EIC			CTM PROJ	ECT #: 91.0	01401
900 ROUTE 146					
CLIFTON PARK NY	12065				
Attention: LAURIE WILLIA	AMS/BOB PASS		CTM Task	* #: 911122i	<b>*************************************</b>
Purchase Order Number: 6			le No: 911		
Date Sampled: 11/21/91	······································			eived: 11/6	
Sampled By : WILLIAMS/E	BABLIN		····	on Method:	COMPOSITE
Sample Id: LAGOON 3-A Location : FRONTIER STOR	ME/NITADADA MAT		Matrix:	POIL	
COLUCION : LUCANIEN SION	C/RINGHIN THII.				
Parameters and Standard	Methodology Used	Results	PQL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAG	Ε)			
SYTPACTION END TO DEED	BICIDESSN-846 METHOD 8150	EXTRACTED			ACH 12/11
ARSENIC, BY TOLP	SH-846 HETHOD 1311	ND EXTRACTED	0.14	MG/L	A4:21 12/13
BARIUM, BY TCLP	SN-846 METHOD 1311	0.46	0.050	M6/L	A4:21 12/13
CADMILM, BY TCLP	SH-846 METHOD 1311	0.014	0.005	MG/L	A4:22 12/17
TCLP EXTRACTION	SH-846 METHOD 1311	COMPLETED	- 1444		D8:99 12/4
CHROMIUM, BY TCLP	SW-846 METHOD 1311	ND NO	0.013	HG/L	A4:21 12/13
EAD, BY TOLP	SW-846 METHOD 1311	NO	0.072	H6/L	A4:21 12/13
MERCURY, BY TOLP	SW-846 METHOD 1311	NO	0.0004	MG/L	C4:77 12/11
SELENIUM, BY TCLP	SW-846 METHOD 1311	NO	0.10	MG/L	A4:27 12/19
SILVER, BY TOLP	SN-846 METHOD 1311	NO	0.012	MG/L	A4:21 12/13
ACID DIBESTION ON TOLP E	EXTRACTSW-846 3010	COMPLETED			D8:117 12/11
REMARKS:					
REMARKS:					01961
REMARKS:		LEGEND: ( = LESS THAN	, ) = SREA	TER THAN, N	

01962

#### CTM ANALYTICAL LABS, LTD Laboratory Analysis Report 24 DEC 1991

HC			CTM PRO	ECT #: 91.0	1401
900 ROUTE 146					
LIFTON PARK NY 1206	5		FTM Tool	. #: 911122F	}
Attention: LAURIE WILLIAMS/BO	8 PASS		Chi las		
urchase Order Number: 63055.	001			ile No: 9111	
late Sampled: 11/21/91 Time:	4:50 PM			eived: 11/2	
ampled By: WILLIAMS/BABLIN				ion Method:	COMPOSITE
Sample Id: LAGOON 3-B			Matrix:	SOIL	
ocation : FRONTIER STONE/NIA	BARA MAT.				
arameters and Standard Metho	dology Used	Results	PQL	Unit	Analyst Reference
ERCURY PREPARATION - TOLP	SN-846 METHOD 1311	COMPLETED			D8:104 12/5
ERO HEADSPACE EXTRACTION	SH-846 METHOD 1311	COMPLETED			DO 12/4
ENZENE (TCLP)	SN-846 METHOD 8240	<u>N0</u>	50	MC6/L	MC C:152 12/6
ARBON TETRACHLORIDE (TCLP)	SN-846 METHOD 8240	ND	50	MCG/L	MC C:152 12/6
HLOROBENZENE (TCLP)	SN-846 METHOD 8240	ND	50	MC6/L	MC C:152 12/6
HLOROFORM (TCLP)	SN-846 METHOD 8240	ND	50	MCG/L	MC C:152 12/6
XTRACTION FOR TOLP PESTICIDE		EXTRACTED		M00 //	ACH 12/6
,4-DICHLOROBENZENE (TCLP)	SN-846 METHOD 8240	<u>NÐ</u>	50	MC6/L	MC 0:152 12/6 MC 0:152 12/6
,2-DICHLOROETHANE (TCLP)	SW-846 METHOD 8240	ND ND	50	MC6/L	MC C±152 12/6
,1-DICHLOROETHYLENE (TCLP)	SW-846 METHOD 8240	ND ND	50	MCS/L MCS/L	MC C:152 12/6
ETHYL ETHYL KETONE (TOLP)	SN-846 METHOD 8240	MD MD	100 51		MC C:152 12/6
ETRACHLOROETHYLENE (TCLP)	SN-846 METHOD 8240	ND ND	50	MCG/L MCG/L	MC C:152 12/6
RICHLOROETHYLENE (TCLP)	SN-846 METHOD 8240	ND ND	105	MCG/L	MC C:152 12/6
VINYL CHLORIDE (TCLP)	SN-846 METHOD 8240	ND ND	52	MCS/L	CM L:104 12/19
)-CRESOL (TCLP)	SH-846 METHOD 8270 ACID FRACTION SH-846 METHOD 8270 ACID FRACTION	ND ND	86 86	MCS/L	CM L:104 12/19
ENTACH DROPHENOL (TCLP)	SH-846 METHOD 8270 ACID FRACTION	NO NO	43	MCS/L	CM L:104 12/19
2,4,5-TRICHLOROPHENOL (TCLP) 2,4,6-TRICHLOROPHENOL (TCLP)	SN-846 METHOD 8270 ACID FRACTION	が を で	45	MC6/L	CM L:104 12/19
1 & P CRESOL (TCLP)	SH-846 METHOD 8270 ACID FRACTION	ND ND	112	MCG/L	CM L:104 12/19
EXACHLOROBENZENE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	ND	47	MCG/L	CM L:104 12/19
EXACHLOROBUTADIENE (TCLP)	SW-846 METHOD 8270 BASE/NEUTRALS	ND	47	MCG/L	CH L:104 12/19
PYRIDINE (TCLP)	SW-846 METHOD 8270 BASE/NEUTRALS	ND NO	51	MC6/L	CH L:104 12/19
4-DINITROTOLUENE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	- GK	41	MCG/L	CM L:104 12/19
EXACHLOROETHANE (TCLP)	SW-846 METHOD 8270 BASE/NEUTRALS	ND	56	MC6/L	CM L:104 12/19
(ITROBENZENE (TOLP)	SW-846 METHOD 8270 BASE/NEUTRALS	ND	53	MCG/L	CM L:104 12/19
XTRACTION FOR TCLP B/N	SN-846 METHOD 8270	COMPLETED			DO 12/6
XTRACTION FOR TCLP ACID/EXT.		COMPLETED			DO 12/6
CHLORDANE (TCLP)	SH-846 METHOD 8080	ND	2.0	MCG/L	GC3 C:120 12/12
ENDRIN (TCLP)	SW-846 METHOD 8080	ND	0.20	MCG/L	6C3 C:120 12/12
EPTACHLOR (TCLP)	SW-846 METHOD 8080	ND	0.20	MCS/L	6C3 C:120 12/12
INDANE (TCLP)	S₩-846 METHOD 8080	ND	0.20	MCG/L	6C3 C:120 12/12
ETHOXYCHLOR (TCLP)	SW-846 METHOD 8080	ND ON	0.20	MC6/L	6C3 C:120 12/12
TOXAPHENE (TOLP)	SW-846 METHOD 8080	ND ON	4.0	MCG/L	6C3 C:120 12/12
HEPTACHLOR EPOXIDE (TCLP)	SN-846 METHOD 8080	MD ON	0.20	MCS/L	6C3 C:120 12/12
2,4-D (TCLP)	SN-846 METHOD 8150	ND	0.20	MCG/L	6C3 C:122 12/12
2,4,5-TP (SILVEX) (TCLP)	SW-846 METHOD 8150	ON ON	0.20	MC6/L	6C3 C:122 12/12

REMARKS:

HC HOO ROUTE 146			CTM PROJECT #: 91	.01401
	12065			
			CTM Task #: 91118	22R
ttention: LAURIE WILLIA	MS/BOB PASS			
urchase Order Number: 6	3055.001		CTM Sample No: 91	11122R 15
late Sampled: 11/21/91			Date Received: 11	
ampled By : WILLIAMS/B			Collection Method	
ample Id: LAGOON 3-B			Matrix: SOIL	
ocation : FRONTIER STON	E/NIABARA MAT.			
arameters and Standard	Methodology Used .	Results	POL Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS F	PAGE )		
אַדָּבְאַרְדִוּהְאָן בַּחָבְּ דִרִּיִּבְּ טִרְדִי	ICIDESSN-846 METHOD 8150	EXTRACTED		ACH 12/11
XIKACITUN FOR TOLP HERB RSENIC, BY TOLP	SH-846 METHOD 1311	EXTRACTED ND	0.11 MG/L	A4:21 12/13
ARIUM, BY TOLP	SN-846 METHOD 1311		0.050 MG/L	A4:21 12/13
ADMIUM, BY TOLP	SW-846 METHOD 1311	0.006	0.006 MG/L	A4:22 12/17
HROMIUM, BY TCLP	SN-846 METHOD 1311	ND	0.011 MG/L	A4:21 12/13
CLP EXTRACTION	SH-846 METHOD 1311	COMPLETED	VEVAS INCL	D8:99 12/4
EAD, BY TOLP	SW-846 METHOD 1311	OCK CE. CE.	0.058 MG/L	A4:21 12/13
ERCURY, BY TCLP	SW-846 METHOD 1311	ND	0.0004 MG/L	C4:77 12/11
ELENIUM, BY TCLP	SW-846 METHOD 1311	ND	0.10 MG/L	A4:27 12/19
ILVER, BY TOLP	SN-846 METHOD 1311	מא	0.012 MG/L	A4:21 12/13
CID DIGESTION ON TOLP E		COMPLETED		D8:117 12/11
DEMANO.				
REMARKS:				01963
		LEGEND: ( = LESS THAN MG/KG=PPM, MC	, ) = Greater Than 6/kg=ppb, Mg/l=ppM	, NO = NOT DETECTED , NCS/L=PPB, NCS/S=PPM

EHC			CTM PRO	JECT #: 91.	01401
900 ROUTE 146					
CLIFTON PARK NY 1206	35		CTM T	k #: 911122	
Attention: LAURIE WILLIAMS/B	DB PASS		UIN 185	x *: 511166	
Purchase Order Number: 63055	.001		CTM Sag	ple No: 911	122R 16
Date Sampled: 11/21/91 Time:	: 5:05 PM			ceived: 11/	
Sampled By: WILLIAM/BABLIN			Collect	ion Method:	COMPOSITE
Sample Id: LAGOON 3-C			Matrix:	SOIL	
Location : FRONTIER STONE/NIA	ASARA MAT.		***************************************		
Parameters and Standard Metho	odology Used	Results	PQ.	Unit	Analyst Reference
MERCURY PREPARATION - TOLP	SN-846 METHOD 1311	COMPLETED			D8:104 12/5
ACID DISESTION ON TOLP EXTRAC	CTSW-846_3010	COMPLETTED			D8:128 12/16
BENZENE (TCLP)	SN-846 METHOD 8240	ND NO	51	MCG/L	MC D:1 12/6
CARBON TETRACHLORIDE (TCLP)	SN-846 NETHOD 8240	ND NO	50	MCG/L	MC D:1 12/6
CHLOROBENZENE (TCLP)	SN-846 METHOD 8240	ND	50	HCG/L	MC D:1 12/6
EXTRACTION FOR TOLP PESTICIDE	SSN-846 NETHOD 8080	EXTRACTED			ACN 12/6
CHLOROFORM (TCLP)	SN-846 METHOD 8240	ND ND	50	MCG/L	MC D:1 12/6
1,4-DICHLOROBENZENE (TCLP)	SW-846 HETHOD 8240	ND NO	50	MC6/L	MC D:1 12/6
1,2-DICHLOROETHANE (TCLP)	SH-846 NETHOD 8240	ND	50	HCG/L	MC D:1 12/6
1,1-DICHLOROETHYLENE (TCLP)	SN-846 METHOD 8240	ND ND	50	MCG/L	MC D:1 12/6
METHYL ETHYL KETONE (TCLP)	SN-846 METHOD 8240	ND	100	MCG/L	MC B:1 12/6
TETRACHLORDETHYLENE (TCLP)	SN-846 METHOD 8240	NO NO	50	MCG/L	MC D:1 12/6
TRICHLOROETHYLENE (TCLP)	SW-846 METHOD 8240	ND	50	HCG/L	HC D:1 12/6
VINYL CHLORIDE (TCLP)	SN-846 METHOD 8240	ND	102	MC6/L	MC B:1 12/6
O-CRESOL (TCLP)	SW-846 METHOD 8270 ACID FRACTION	ND	52	HCG/L	CH L:104 12/19
PENTACHLOROPHENOL (TCLP)	SH-846 METHOD 8270 ACID FRACTION	ND	84	MCS/L	CN L:104 12/19
2,4,5-TRICHLOROPHENOL (TCLP)	SW-846 METHOD 8270 ACID FRACTION	ND	42	HCS/L	CH L:104 12/19
2,4,6-TRICHLOROPHENOL (TCLP)	SH-846 METHOD 8270 ACID FRACTION	NO	45	MCG/L	CM L:104 12/19
N & P CRESOL (TCLP)	SW-846 METHOD 8270 ACID FRACTION	ND	110	MCG/L	CH L:104 12/19
EXACHLOROBENZENE (TOLP)	SW-946 METHOD 8270 BASE/NEUTRALS	ND	44	MCG/L	CH L:104 12/19
HEXACHLOROBUTADIENE (TCLP)	SW-846 METHOD 8270 BASE/NEUTRALS	ND	47	MCG/L	CM L:104 12/19
PYRIDINE (TCLP)	SW-846 METHOD 8270 BASE/NEUTRALS	ND	_75	MC6/L	CM L:104 12/19
2,4-DINITROTOLLENE (TCLP)	SW-846 METHOD 8270 BASE/NEUTRALS	<u>ND</u>	40	MCG/L	CH L:104 12/19
HEXACHLORDETHANE (TCLP)	SN-846 METHOD 8270 BASE/NEUTRALS	ND	<u> 56</u>	MC6/L	CH L:104 12/19
NITROBENZENE (TCLP)	SH-846 METHOD 8270 BASE/NEUTRALS	<u>ND</u>	53	MC6/L	CH L:104 12/19
EXTRACTION FOR TCLP B/N	SH-946 METHOD 8270	COMPLETED			DO 12/6
EXTRACTION FOR TOLP ACID/EXT.		COMPLETED			00 12/6
CHLORDANE (TCLP) ZERO HEADSPACE EXTRACTION	SM-846 METHOD 8080 SM-846 METHOD 1311	ND COMPLETED	2.0	MC6/L	6C3 C:122 12/12
ENDRIN (TCLP)	SN-846 METHOD 8080	COMPLETED ND	0.20	Mcc u	00 12/4 6C3 C:120 12/12
EPTACHLOR (TCLP)	SN-846 METHOD 8080	ND ND	0.20	MCS/L MCS/L	6C3 C:120 12/12
INDANE (TCLP)	SN-846 NETHOD 8080	ND ND	0.20	MCG/L	6C3 C:120 12/12
ETHOXYCHLOR (TCLP)	SN 846 METHOD 8080	ND	0.20	MCS/L	6C3 C:120 12/12
TOXAPHENE (TCLP)	SN-846 METHOD 8080	ND ND	4.0	MCG/L	6C3 C:120 12/12
EPTACHLOR EPOXIDE (TOLP)	SN-846 NETHOD 8080	ND ND	0.20	MCS/L	6C3 C:120 12/12
2,4-D (TCLP)	SN-846 METHOD 8150	ND	0.20	MCG/L	6C3 C:122 12/12
	( CONTINUES ON NEXT PASE )				

HC			CTM PROJE	CT #: 91.	01401
DO ROUTE 146					
LIFTON PARK NY 18	:065				
Lieutien, I AUDIC LITH TAMO	(DOD DACC		CTM Task	<b>*:</b> 911122	R
ttention: LAURIE WILLIAMS/	מטארץ מטס				
urchase Order Number: 6305				le No: 911	
ate Sampled: 11/21/91 Tim				eived: 11/	~- <del></del>
ampled By: WILLIAM/BABLI	N				COMPOSITE
ample Id: LAGOON 3-C			Matrix: 9	30 I L	
ocation : FRONTIER STONE/N	HABARA MAT.				
arameters and Standard Met	hodology Used	<u>Results</u>	PQL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE	Œ)			
,4,5-TP (SILVEX) (TCLP)	SW-846 METHOD 8150	ND	0.20	MC6/L	6C3 C:122 12/12
XTRACTION FOR TOLP HERBICI	DESSW-846 METHOD 8150	EXTRACTED			ACH 12/11
RSENIC, BY TCLP	SW-846 METHOD 1311	ND NO	0.12	MG/L	A4:22 12/17
ARIUM, BY TCLP	SM-846 METHOD 1311	0.19	0.050	MG/L	A4:22 12/17
ADMIUM, BY TCLP	SW-846 METHOD 1311	0.007	0.005	MG/L	A4:22 12/17
CLP EXTRACTION	SH-846 METHOD 1311	COMPLETED			D8:99 12/4
HROMIUM, BY TCLP	SN-846 METHOD 1311	910.0	0.010	M6/L	A4:22 12/17
EAD, BY TCLP	SM-846 METHOD 1311	NO	0.058	HG/L	A4:22 12/17
ERCURY, BY TOLP	SM-846 METHOD 1311	ND A 15	0.0004	116/L	C4:77 12/11
ELENIUM, BY TCLP	SW-846 METHOD 1311	0.13	0.10	MG/L	A4:25 12/18/91
ILVER, BY TOLP	SW-846 METHOD 1311	ND NO	0.012	M6/L	A4:22 12/17
-					
AL.					
. ^					
REMARKS:					01965
		LEGEND: ( = LESS THAN,	) = GREAT	er than, i	D = NOT DETECTED
					NCG/L=PPB, NCG/G=PPM
	•	D = RESULT IS	( Mar., BUT	) RIAL	

Attention: LAURIE WILLIAMS/BOB Purchase Order Number: 63055.0 Date Sampled: 11/21/91 Time: Sampled By: WILLIAMS/BABLIN Sample Id: BACKGROUND 1 Location: FRONTIER STONE/NIAG	B PASS  DO1  8:10 PM			k #: 911122 ple No: 911	R
Attention: LAURIE WILLIAMS/BOB Purchase Order Number: 63055.0 Date Sampled: 11/21/91 Time: Sampled By: WILLIAMS/BABLIN Sample Id: BACKGROUND 1 Location: FRONTIER STONE/NIAG	B PASS  DO1  8:10 PM		CTM Sag	ple No: 911	R
Sampled By: WILLIAMS/BABLIN Sample Id: BACKGROUND 1 Location : FRONTIER STONE/NIAGO Parameters and Standard Methodo	001 8:10 PM		CTM Sag	ple No: 911	£
Purchase Order Number: 63055.00 Date Sampled: 11/21/91 Time: Sampled By: WILLIAMS/BABLIN Sample Id: BACKGROUND 1 Location: FRONTIER STONE/NIAGO Parameters and Standard Methodo	001 8:10 PM				
Date Sampled: 11/21/91 Time: Sampled By: WILLIAMS/BABLIN Sample Id: BACKGROUND 1 .ocation: FRONTIER STONE/NIAG Parameters and Standard Method	8:10 PM				
Date Sampled: 11/21/91 Time: Sampled By: WILLIAMS/BABLIN Sample Id: BACKGROUND 1 Location: FRONTIER STONE/NIAG	8:10 PM				1000 17
Sampled By: WILLIAMS/BABLIN Sample Id: BACKGROUND 1 Location : FRONTIER STONE/NIAGO Parameters and Standard Methodo			nate ke		
Sample Id: BACKGROUND 1 Location : FRONTIER STONE/NIAG	SARA MAT.		Callest	ion Method:	
Location : FRONTIER STOME/NIAG	SARA MAT.		Matrix:		CUATUSTIC
Parameters and Standard Method			HQUITA a	- OIL	
, , , , , , , , , , , , , , , , , , ,					
ECOMINA DOCUMENTUM TO D	iology lised	Results	POL	Unit	Analyst Reference
	SW-846 METHOD 1311	COMPLETED			D8:104 12/5
	SW-846 METHOD 1311	COMPLETE			DOH
ACID DIGESTION ON TOLP EXTRACTS		COMPLETTED			D8:128 12/16
BENZENE (TCLP)	SN-846 METHOD 8240	NFD	50	MC6/L	MC D:1 12/6
CARBON TETRACHLORIDE (TCLP)	SW-846 METHOD 8240	ND	50	MCG/L	MC D:1 12/6
CHLOROBENZENE (TCLP)	SW-846 METHOD 8240	ND	50	MCG/L	MC D:1 12/6
CHLOROFORM (TCLP)	SM-846 METHOD 8240	<u> </u>	50	MCG/L	MC D:1 12/6
EXTRACTION FOR TOLP PESTICIDES		EXTRACTED			ACM 12/6
7	SM-846 METHOD 8240	ND	50	MCG/L	MC D:1 12/6
•	SN-846 METHOD 8240	<u> </u>	50	MCG/L	MC D:1 12/6
	SN-846 METHOD 8240	םא	50	MCG/L	HC D:1 12/6
	SH-846 METHOD 8240	NBD	100	MCS/L	MC D:1 12/6
	SW-846 METHOD 8240	ND	50	MC6/L	MC D:1 12/6
	SW-846 METHOD 8240	ND ND	50	MCG/L	MC D:1 12/6
	SW-846 METHOD 8240	N0	100	MCG/L	MC B:1 12/6
	SW-846 METHOD 8270 ACID FRACTION	ND	<u>51</u>	MCG/L	CM L:104 12/19
	SW-846 METHOD 8270 ACID FRACTION	ND	88	MCG/L	CH L:104 12/19
• •	SM-846 NETHOD 8270 ACID FRACTION	<u> </u>	42	MC6/L	CM L:104 12/19
	SW-846 METHOD 8270 ACID FRACTION	ND ND	44	MCS/L	CH L:104 12/19
	SN-846 METHOD 8270 ACID FRACTION SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	110	MC6/L	CM L:104 12/19
· · · · · · · · · · · · · · · · · · ·	SN-846 METHOD 8270 BASE/NEUTRALS	MD MD	43 47	MCS/L	CM L:104 12/19
				MCS/L	CH L:104 12/19
	SN-846 NETHOD 8270 BASE/NEUTRALS SN-846 NETHOD 8270 BASE/NEUTRALS	NO NO	<u>62</u> 40	MC6/L MC6/L	CM L:104 12/19 CM L:104 12/19
	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	55	MC6/L	CM L:104 12/19
	SN-846 METHOD 8270 BASE/NEUTRALS	NID NID		MCS/L	CH L:104 12/19
	SH-846 METHOD 8270	COMPLETED		(NO/L	DO 12/6
EXTRACTION FOR TCLP ACID/EXT. S		COMPLETED			DO 12/6
	SW-846 METHOD 8080	ND ND	2.0	MCG/L	6C3 · C:120 12/12
· · · · · · · · · · · · · · · · · · ·	SN-846 METHOD 1311	COMPLETED			DO 12/4
	SN-846 METHOD 8080	ND NO	0.20	MCG/L	6C3 C:120 12/12
	SW-846 METHOD 8080	סא	0.20	MCS/L	6C3 C:120 12/12
	SN-846 METHOD 8080	ND	0.20	MCG/L	6C3 C:120 12/12
~ ~ ~ ~	SN-846 METHOD 8080	ND	0.20	MCS/L	6C3 C:120 12/12
	SH-846 METHOD 8080	ND	4.0	MCG/L	6C3 C:120 12/12
	SN-846 METHOD 8080	ND	0.20	MCS/L	6C3 C:120 12/12
	( CONTINUES ON NEXT PAGE )				
REMARKS:					01966

EHC			CTM PROJ	ECT #: 91.0	01401
900 ROUTE 146					·
CLIFTON PARK NY 1	.2065				
A 2	VPOD DAGO		CTM Task	<b>*:</b> 9111229	?
Attention: LAURIE WILLIAMS	i/BUB PASS				
Purchase Order Number: 630	55,001		CTM Sago	le No: 911	122R 17
Date Sampled: 11/21/91 Ti				eived: 11/8	
Sampled By : WILLIAMS/BAD				on Method:	
Sample Id: BACKGROUND 1			Matrix:		
Location : FRONTIER STONE/	NIAGARA MAT.				
Parameters and Standard Me	thodology Used	Results	PQL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE				
2,4-D (TCLP)	SN-846 METHOD 8150	ND	0.20	MCG/L	GC3 C:122 12/12
2,4,5-TP (SILVEX) (TCLP)	SW-846 METHOD 8150	ND	0.20	MC6/L	6C3 C:122 12/12
EXTRACTION FOR TCLP HERBIC		EXTRACTED			ACM 12/6
ARSENIC, BY TCLP	S₩-846 METHOD 1311	<u> </u>	0.12	MG/L	A4:22 12/17
BARIUM, BY TCLP	SW-846 METHOD 1311	0.24	0.050	M6/L	A4:22 12/17
CADMIUM, BY TOLP	SW-846 METHOD 1311	ND	0.006	MG/L	A4:22 12/17
CHROMIUM, BY TCLP	SW-846 METHOD 1311	NO	0.011	M6/L	A4:22 12/17
EAD, BY TOLP	SW-846 METHOD 1311	ND	0.065	HG/L	A4:22 12/17
ERCURY, BY TOLP	SW-846 METHOD 1311	ND .	0.0004	MS/L	C4:77 12/11
SELENIUM, BY TCLP	SW-846 METHOD 1311	0.21	0.10	MG/L	A4:25 12/18/91
SILVER, BY TCLP	SW-846 METHOD 1311	ND	0.013	MG/L	A4:22 12/17
REMARKS:					01967
REMARKS:					01967
REMARKS:		LEGEND: ( = LESS THAN HG/KG=PPM. HC			

EC	CTM PROJECT #: 91.01401
900 ROUTE 146	
CLIFTON PARK NY 12065	
	CTM Task #: 911122R
Attention: LAURIE WILLIAMS/BOB PASS	
Purchase Order Number: 63055.001	CTM Sample No: 911122R 18
Date Sampled: 11/20/91 Time: 00:00	Date Received: 11/22/91
Sampled By : CTM	Collection Method: GRAB
Sample Id: TRANSPORT BLANK	Matrix: WATER
Location : CTM	

Parameters and Standard Meti	hodology Used	Results	PQL	Unit	Analyst Reference
TARGET COMPOUND LIST VOLATIO	FS	COMPLETED			NC D:2-3 11/26
CHLOROMETHANE	SN-846 NETHOD 8240	ND	10	MC6/L	MC D:2-3 11/26
VINYL CHLORIDE	SN-846 NETHOD 8240		10	MCG/L	MC D:2-3 11/26
BROMOMETHANE	SN-846 METHOD 8240	ND	10	MCG/L	MC D:2-3 11/26
CHLORGETHANE	SW-846 METHOD 8240	ND	10	MCG/L	MC D:2-3 11/26
1,1-DICHLOROETHANE	SM-846 METHOD 8240	ND ND	5	MC6/L	MC D:2-3 11/26
NETHYLENE CHLORIDE	SN-846 METHOD 8240	n	5	MCG/L	MC D:2-3 11/26
TRANS 1.2-DICHLORDETHENE	SN-846 NETHOD 8240	n	5	MC6/L	MC D:2-3 11/26
CIS 1.2-DICHLOROETHENE	SM-846 METHOD 8240	ND ND	5	MCG/L	MC D:2-3 11/26
1.1-BICHLOROETHENE	SN-846 METHOD 8240	NO.	5	HCG/L	MC D:2-3 11/26
CHLOROFORM	SN-846 METHOD 8240	NO	5	MCG/L	MC D:2-3 11/26
1.1.1-TRICHLORDETHANE	SN-846 METHOD 8240	ND ND	5	MCG/L	MC D:2-3 11/26
CARBON TETRACHLORIDE	SH-846 METHOD 8240	ND ND	5	MC6/L	MC D:2-3 11/26
BENZENE	SN-846 HETHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
1,2-DICHLOROETHANE	SW-846 METHOD 8240	ND	5	MCG/L	MC 0:2-3 11/26
TRICHLOROETHENE	SM-846 HETHOD 8240	ND	5	MC6/L	MC D:2-3 11/26
1.2-DICHLOROPROPANE	SW-846 METHOD 8240	ND.	5	MCG/L	MC D:2-3 11/26
BROMODICHLOROMETHANE	SM-846 METHOD 8240	D CO	5	MCG/L	MC D:2-3 11/26
TRANS-1,3-BICHLOROPROPENE	SW-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
TOLUENE	SW-846 METHOD 8240	ND	5	MCG/L	NC D:2-3 11/26
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
1,1,2-TRICHLORDETHANE	SW-846 METHOD 8240	ND ND	5	MCG/L	MC D:2-3 11/26
TETRACHLOROETHENE	SW-846 METHOD 8240	ND ND	5	MCS/L	MC D:2-3 11/26
DIBROMOCHLOROMETHANE	SW-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
CHLOROBENZENE	SW-846 METHOD 8240	ND	5	MC6/L	MC D:2-3 11/26
ETHYLB <b>ENZENE</b>	SH-846 METHOD 8240	ND	5	MCS/L	MC D:2-3 11/26
BROHOFORM	SW-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
1,1,2,2-TETRACHLOROETHANE	SN-846 METHOD 8240	ND	5	MCG/L	MC D:2-3 11/26
STYRENE	SM-846 METHOD 8240	ND	5	MC6/L	MC D:2-3 11/26
ACETONE	SN-846 METHOD 8240	13	10	MC6/L	MC D:2-3 11/26
CARBON DISULFIDE	SW-846 METHOD 8240	ND OSA	5	MCS/L	MC D:2-3 11/26
VINYL ACETATE	SN-846 METHOD 8240	ND	10	MCS/L	MC D:2-3 11/26
2-HEXANONE	SW-846 METHOD 8240	ND ON	10	MC6/L	MC D:2-3 11/26
XYLENE (TOTAL)	SW-846 METHOD 8240	NO	5	HC6/L	MC D:2-3 11/26
4-METHYL-2-PENTANONE (MIBK)	SW-846 METHOD 8240	ND	10	MC6/L	MC D:2-3 11/26
2-BUTANONE (MEK)	SW-846 METHOD 8240	ND	10	MCS/L	MC D:2-3 11/26

REMARKS:

AUTHORIZED FOR RELEASE:

m hiland

01968

LEGEND: ( = LESS THAN, ) = GREATER THAN, NO = NOT DETECTED

HG/KG=PPH, HCS/KG=PPB, HG/L=PPH, HCS/L=PPB, HCS/G=PPH

D = RESULT IS ( PGL, BUT ) MOL

15 Century Hill Drive P.O. Box 727 Latham, NY 12110 518-786-7100 FAX 518-786-7139



# LABORATORY SERVICES

# CHAIN OF CUSTODY RECORD

CLIENT AND PROJECT N	AME * 63035.00	رد/	_			S: (Signatu		(.			
EHC FRO	wtiv stone - N	lagara M	natural	Ka	u	ul	11	ill	win		
CTM SAMPLE NUMBER	SAMPLE IDENTIFICATION		DATE	TIMI A = a . P = p .	E m . m .	SAMPLE MATRIX	COMP GRAB GRAB	NUMBER OF CONT'S	ANAL	YSIS REQU	IRED
122804	Lasoon 1	A	11/21/91	715	Â	ا، م	X	2	VOA		
, —	′,		11	u	A P	56.1	X	2	(TCLP	) B~	A, î
V					A P				# m	etal	5
05	Lagoon 1-	В	11/21/91				K	2	VOA	•	
	//		//	"	A P	Sol	X	2	(tclp	) BN	A, P.
					A P				4 me	tals	
	La,500 ~ 1-	C	11/21/91		ê	که را	X	2	VOA	1	
	<i>(1</i>		//	1,	A P	ا، مک	X	2	LTCLI		
					A P				+m	etal.	
		•			P						
					A P		11				
	•				A P						
Relinquished by:		Red	eived by:	(Signat	ura)					Date	/Time
Relinquished by:		Red	ceived by:	(Signal	hure)	j				Date	/Time
Relinquished by: (	Signatu:e)	Red	ceived by:	(Signal	lure	<u> </u>				Date	/Time
Relinquished by: (	Signature)		ceived by A alysis: (\$gma		e l	.abora1	ory	for fie	eld	Date	/Time
Dispatched by: (Signature)	(nature)	Date/Tim		ed !	aī (	Labora	1014	<b>15</b> 97?	ly	Date	/Tim
Method of Shipme	ent:	<u> </u>	11/				· ·				K

Distribution: Orig. - Accompany Shipment

1 Capy -- Coordinator Field Files

15 Century Hill Drive P.O. Box 727 Latham, NY 12110 518-786-7100 FAX 518-786-7139



# LABORATORY SERVICES

#### CHAIN OF CUSTODY RECORD

CLIENT AND PROJECT N	AME * 63035.00	1		,			RS: (Signatu				11
EHC Front	/ * 63035.00 /er Stone -,	Niasara	M	aterials	Ka	j ?(1	7. 1	w	Mar	e C	.15ch
C T M SAMPLE NUMBER	SAMPLE IDENTIFICATIO			DATE	TIM A = a . P = p .	E .m.	SAMPLE MATRIX	COMP GRAB TAB	NUMBER OF CONT'S	ANA	LYSIS REQUIRED
122K09	Lasoon 2.	- A		11/21/41	Bc;	1	50.1	X	7	VO A	
	11				ı	A P	50.1	X	2	LTCL	P) BNA, F
	1-					A P				+ Mc	tels
10	Lasoon 2	-B		11/21/41	17.	4	ا ۵۰	X	2	VOA	
	()			. 1	T		Soil	X	2	CTCL	P) BNA, F
						A P				+ me	tals
1萬	LABOON 3	- C		11/21/51	17:20	4	ا، مک	X	2	VOA	1
	1,			ı j	11	A P	5.1	X	2	CTCL	P) BNA,
						A P				<i>≠</i> ∩	netsls
		•				A P					
						A P					
***************************************						A P					
Relinguished by: (s		F	Recei	ved by:	(Signat	urej				•	Date/Time
Relinquished by: (5)			Recei	ved by:	(Signat	ura)					Date/Time
Relinquished by: (s	ignatu:e)	.   F	Recei	ved by:	(Signat	ure)	:				Date/Time
Relinquished by: (s	ignature)			ved by A		e L	aborati	ory (	for fie	ld	Date/Time
Dispotched by: 15ign	. /	Date/Ti		Receiv	edic	ภา	oborat	orty		W	Date/Time
Method of Shipmer										Ì	10
Control of						-					

15 Century Hill Drive P.O. Box 727 Latham, NY 12110 518-786-7100 FAX 518-786-7139



# LABORATORY SERVICES

# CHAIN OF CUSTODY RECORD

CTM SAMPLE NUMB	ntier Stone - NI ER SAMPLE IDENTIFICAL			DATE	TIM A = a . P = p .	m.	SAMPLE MATRIX	TYPE B V V V	UMBER OF ONT'S	4014	LYSIS REG	VIIDED.
17706	14600N 3		. Same gradust	11/21/41			Soil		z s	U O		OIKED
	1)			))	ч	A P	50.1	X	2		P)B	νΑ, j
						A P					etals	
1576	Lagoon	3 - B		11/21/4	16.50	A	So 1	X	2	VOA	4	`
	'n			D			Sa.(	X	2	(tcc	P) B	NA, F
						A P				# me	etals	>
16/7	Lascon.	3 - C		11/21/41	1,85	1	50.1	x	2	TEE.	<del>^</del>	44,3
	//				ધ	A P	5.,1	×	a	ET !	( حرا	BNA
V		, , , , , , , , , , , , , , , , , , ,				A P				# 1	neta	:45
1778	BACKGROU	NDF	4	11/21/91	20:10	A	حدرا	4	a	Va	4	
						A P	ا، ب	<	a a	CTCL	P) B	?N A,
V		•				A P				4 m	ethl	\$
Relinquished by:			Rece	ived by: (	(Signatu	re)					Date	/Time
Relinquished by:			Rece	ived by:	(Signatu	rej					Date	/Time
Relinquished by:	(Signatu:e)		Rece	ived by:	Signatu	re)					Date	/Time
Relinquished by:	(Signature)			ived by N		e L	aborata (	PFY (	or fiel	d	Date	/Time

Distribution: Orig. - Accompany Shipment

1 Conv \_ Coordinates Etald Ellas

# $\label{eq:appendix} \mbox{\ensuremath{\mathtt{I}}}$ Analytical TCL Soil Quality Results

	CTM ∆W	ALYTICAL LARS, LTD.		
		Century Hill Dr.		
		tham, NY 12110		
•		86-7100 Fax: (518) 786-7139		
		ory Analysis Report		
		pared for: EHC Number: 91.01401		
		Number: 911122R		
		24 DEC 1991		
IMPORTANT - PLEASE NOTE		•		
1. All results are calculated	on a dry weight basi	s unless otherwise specified.		
2. PQL = Practical Quantitation				
3. A result with a "D" means t	hat the result was "	Detected below the Practical	Quantitation Limit (PQL), but	
addye the method betection	LIBIT (NUL).			
		-		
		***************************************		
	· · · · · · · · · · · · · · · · · · ·			
CERTIFICATIONS:			01912	
NYS E.L.A.P. ID NO: 10358	MA: NY052	CT: PH-0551	V1-71-6	
NJ: 73581	PA: 68-402	NH: 199014-C		

EHC	CTM PROJECT #: 91.01401
900 ROUTE 146	
CLIFTON PARK NY 12065	3
	CTM Task #: 911122R
Attention: LAURIE WILLIAMS/BOB PASS	
Purchase Order Number: 63055.001	CTM Sample No: 911122R 01
Date Sampled: 11/20/91 Time: 7:00 PM	Date Received: 11/22/91
Sampled By: BABLIN/WILLIAMS	Collection Method: COMPOSITE
Sample Id: RR EASEMENT 1-A	Matrix: SOIL
Location : FRONTIER STONE/NIABARA MAT.	

D	3 1 11		551		
Parameters and Standard Meth	odology Used	Results	PQL	Unit	Analyst Reference
TARGET COMPOUND LIST VOLATIL	ES	COMPLETED			JB E:90 11/26
CYANIDE, TOTAL W/ DISTILLATI		ND	0.89	MG/KB	JOC 12/3
CHLOROMETHANE	SW-846 METHOD 8240	NO NO	14	MCG/KG	JB E:90 11/26
VINYL CHLORIDE	SW-846 METHOD 8240	ND	14	NCG/K6	JB E:90 11/26
BRONOMETHANE	SH-846 METHOD 8240	ND	14	MCG/KG	JB E:90 11/26
CHLOROETHANE	SN-846 METHOD 8240	NED	14	MCG/KG	JB E:90 11/26
1,1-DICHLOROETHANE	SN-846 HETHOD 8240	ND	7.2	MCG/KG	JB E:90 11/26
MERCURY PREPARATION - SOLID		COMPLETED			D8:104 12/5
METHYLENE CHLORIDE	SW-846 METHOD 8240	ND	7.2	MCG/KG	JB E:90 11/26
TRANS 1,2-DICHLORDETHENE	SW-846 METHOD 8240	ND	7.2	MCG/KG	JB E:90 11/26
CIS 1,2-DICHLOROETHENE	SW-846 METHOD 8240	NO	7.2	MCG/KG	JB E:90 11/26
1,1-DICHLOROETHENE	SN-846 METHOD 8240	NO	7.2	MCG/KG	JB E:90 11/26
CHLOROFORM	SH-846 HETHOD 8240	NO	7.2	MCG/KG	JB E:90 11/26
ACID DISESTION - FURNACE	SW-846 METHOD 3050	COMPLETED			D8:95 12/4
ACID DIGESTION - FLAME/ICP	SN-846 3050	COMPLETED			D8:103 12/5
1,1,1-TRICHLORGETHANE	SW-846 METHOD 8240	ND	7.2	MCS/KS	JB E:90 11/26
CARBON TETRACHLORIDE	SW-846 METHOD 8240	NO	7.2	HCG/KG	JB E:90 11/26
BENZENE	SW-846 METHOD 8240	NO ON	7.2	MCG/KG	JB E:90 11/26
NICKEL	ICP, EPA METHOD 6010	20.4	8.4	MG/KG	A4:18 12/11
1,2-DICHLOROETHANE	SN-846 METHOD 8240	NO	7.2	MCG/KG	JB E:90 11/26
TRICHLOROETHENE	SN-846 METHOD 8240	NO	7.2	HCG/KG	JB E:90 11/26
1,2-DICHLOROPROPANE	SW-846 METHOD 8240	ND -	7.2	MCG/KG	JB E:90 11/26
BROMODICHLOROMETHANE	SN-846 METHOD 8240	XD	7.2	MCG/KG	JB E:90 11/26
TRANS-1,3-DICHLOROPROPENE	SM-846 METHOD 8240	ND	7.2	MCG/KG	JB E:90 11/26
TOLUENE	SW-846 METHOD 8240	ND ND	7.2	MCG/KG	JB E:90 11/26
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	ND	7.2	MCG/KG	JB E:90 11/26
1,1,2-TRICHLOROETHANE	SN-846 METHOD 8240	ND	7.2	MCG/KG	JB E:90 11/26
TETRACHLORGETHENE	SW-846 METHOD 8240	ND	7.2	MC6/K6	JB E:90 11/26
DIBROHOCHLOROMETHANE	SN-846 METHOD 8240	ND	7.2	HCG/KG	JB E:90 11/26
CHLOROBENZENE	SW-846 METHOD 8240	ND	7.2	MC6/KG	JB E:90 11/26
ETHYLB <b>ENZENE</b>	SW-846 METHOD 8240	ND NO	7.2	HCG/KG	JB E:90 11/26
BROMOFORM	SW-846 METHOD 8240	NO	7.2	MC6/K6	JB E:90 11/26
1,1,2,2-TETRACHLORDETHANE	SW-846 METHOD 8240	ND	7.2	MCG/KG	J8 E:90 11/26
EXTRACTION FOR TCL B/N		COMPLETED			DO 11/27
EXTRACTION FOR TOL - ACIDS		COMPLETED			DO 11/27
STYREME	SH-846 METHOD 8240	ND	7.2	HC6/K6	JB E:90 11/26

( CONTINUES ON NEXT PASE )

REMARKS:

<b>XC</b>		- Harris	CTM PRO	IECT #: 91.0	1401
900 ROUTE 146					
CLIFTON PARK NY 1206	5				
		W date.	CTM Tasi	(#: 91112 <b>2</b> 5	
Attention: LAURIE WILLIAMS/BC	DB PASS				
Purchase Order Number: 63055.	M1		CTW C		220 01
Date Sampled: 11/20/91 Time:				le No: 9111 eived: 11/2	
Sampled By : BABLIN/WILLIAMS				elved: 11/c ion Method:	
Sample Id: RR EASEMENT 1-A			Matrix:		CONT COLOR
Location : FRONTIER STONE/NIA	SARA MAT.		17457 44 1	-7.2	
Parameters and Standard Metho	dology Used	Results	PQI_	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE )				
ACETONE	SM-846 METHOD 8240	25	14	MCS/KS	JB E:90 11/26
CARBON DISULFIDE	SN-846 METHOD 8240	ND	7.2	MCG/KG	JB E:90 11/26
VINYL ACETATE	SN-846 NETHOD 8240	MO	14	MCS/KG	JB E:90 11/26
2-HEXANONE	SN-846 NETHOD 8240	ND	14	MCG/KG	JB E:90 11/26
EXTRACTION FOR TCL PEST/PCB	EPA NETHOD 8080	EXTRACTED			DO 11/27
XYLENE (TOTAL)	SW-846 METHOD 8240	ND	7.2	MCG/KG	JB E:90 11/26
4-HETHYL-2-PENTANONE (HIBK)	SM-846 METHOD 8240	ND_	14	HCG/KG	JB E:90 11/26
2-BUTANONE (MEK)	SM-846 METHOD 8240	ND.	14	MCG/KG	JB E:90 11/26
SODIUM	EPA METHODS, 1979.273.1	<u>ND</u>	280	M6/K6	B5:39 12/11
TARGET COMPOUND LIST	BASE/NEUTRAL/ACID EXTRACTABLES	COMPLETED			CH L:96 12/15
PHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	ND ND	940	MC6/K6	CH L:96 12/15
BIS-(2-CHLOROETHYL)-ETHER	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	940	MC6/K6	CH L:96 12/15
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND ND	940	MC6/K6	CH L:96 12/15
1 ,3-DICHLOROBENZENE	SH-846 METHOD 8270 BASE/NEUTRALS	<u>ND</u>	940	MCG/KG	CH L:96 12/15
1,4-DICHLOROBENZENE BENZYL ALCOHOL	SN-846 NETHOD 8270 BASE/NEUTRALS SN-846 NETHOD 8270 BASE/NEUTRALS	ND ND	940 1.900	MCG/KG MCG/KG	CN L:96 12/15 CN L:96 12/15
1,2-DICHLOROBENZENE	SM-846 METHOD 8270 BASE/NEUTRALS		940	HCG/KG	CM L:96 12/15
2-METHYLPHENOL	SN-846 METHOD 8270 ACID EXTRACTABLES	ND ND	940	MCS/KS	CM L:96 12/15
	SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	940	MCG/KG	CH L:96 12/15
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND ND	940	MCG/KG	CM L:96 12/15
N-NITROSO-DIPROPYLAMINE	SN-846 METHOD 8270 BASE/NEUTRALS	NED	940	MCG/KG	CH L:96 12/15
HEXACHLOROETHANE	SM-846 METHOD 8270 BASE/NEUTRALS	ND	940	MCG/KG	CH L:96 12/15
NITROBENZENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	940	MC6/K6	CH L:96 12/15
ISOPHORONE	SH-846 NETHOD 8270 BASE/NEUTRALS	ND	940	MCG/KG	CM L:96 12/15
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	NO	940	MCS/KS	CM L:96 12/15
2,4-DINETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	NO NO	940	MCG/KG	CH L:96 12/15
BENZOIC AICD	SN-846 METHOD 8270 BASE/NEUTRALS	ND	4,700	MCG/KG	CH L:96 12/15
	SH-846 METHOD 8270 BASE/NEUTRALS	ND	940	MCG/K6	CH L:96 12/15
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ON ON	940	MCS/KS	CM L:96 12/15
1,2,4-TRICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND .	940	MCG/KG	CH L:96 12/15
NAPHTHALENE	SN-946 METHOD 8270 BASE/NEUTRALS	B	940	HCG/KG	CH L:96 12/15
4-CHLORGANILINE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	1,900	MCG/KG	CH L:96 12/15
HEXACHLOROBUTADIENE	SH-846 METHOD 8270 BASE/NEUTRALS	NED	940	MC6/K6	CH L:96 12/15
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND NO	1,900	MCG/KG	CH L:96 12/15
	( CONTINUES ON NEXT PAGE )		······································		
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REMARKS:					A
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HC			CTH PRO.	JECT #: 91.0	01401
200 ROUTE 146 LIFTON PARK NY 1204	35				
ALI ON THIS OF THE	~		CTM Tasi	k #: 9111221	3
Attention: LAURIE WILLIAMS/BO	DB PASS		VIII 1031	N 8 0 2111 LL	
Purchase Order Number: 63055	<del></del>		CTM Sam	ole No: 911	122R 01
Date Sampled: 11/20/91 Time			Date Rec	:eived: 11/2	22/91
Sampled By : BABLIN/WILLIAMS	5			ion Method:	COMPOSITE
Sample Id: RR EASEMENT 1-A			Matrix:	SOIL	
ocation : FRONTIER STONE/NIA	HEARA MAT.				
Parameters and Standard Metho	odology Used	Results	PQL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE )				
2-HETHYLNAPHTHALENE	SN-846 METHOD 8270 BASE/NEUTRALS	D	940	MC6/K6	CH L:% 12/15
EXACHLOROCYCLOPENTADIENE	SH-846 METHOD 8270 BASE/NEUTRALS	MD MD	940	MCS/KS	CM L:96 12/15
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	940	HCG/K6	CH L:96 12/15
-CHLORONAPTHALENE	SH-846 METHOD 8270 BASE/NEUTRALS	NO NO	940	HCG/KG	CM L:96 12/15
-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	NO NO	4,700	MC6/K6	CH L:96 12/15
JIMETHYL PHTHALATE	SH-846 METHOD 8270 BASE/NEUTRALS	NED NED	940	MCG/KG	CH L:% 12/15
CENAPHTHYLENE	SN-946 METHOD 8270 BASE/NEUTRALS	<u> </u>	940	MCG/KG	CM L:% 12/15
6-DINITROTOLUENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	940	MCG/KS	CH L:96 12/15
-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	<u></u>	1,900	MCG/K6	CH L:96 12/15
CENAPHTHENE	SH-846 METHOD 8270 BASE/NEUTRALS	<u>D</u>	940	MCG/KG	CH L:96 12/15
4-DINITROPHENOL	SM-846 METHOD 8270 ACID EXTRACTABLES	<u> </u>	4,700	MCS/KS	CH L:96 12/15
H-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	NO NO	940	MCG/KG	CH L:96 12/15
DIBENZOFURAN 2,4-DINITROTOLUENE	SH-846 METHOD 8270 BASE/NEUTRALS SH-846 METHOD 8270 BASE/NEUTRALS	D NO	940 940	MCG/KG MCG/KG	CH L:96 12/15 CH L:96 12/15
DIETHYL PHTHALATE	SN-846 METHOD 8270 BASE/NEUTRALS	ND ON	940	MCG/KG	CH L:% 12/15
-CHLOROPHENYL-PHENYL-ETHER	SH-846 METHOD 8270 BASE/NEUTRALS	ND NO	940	MCG/KG	CH L:96 12/15
LUCRENE	SW-846 METHOD 8270 BASE/NEUTRALS	D D	940	MC6/K6	CH L:% 12/15
-NITROANILINE	SH-846 METHOD 8270 BASE/NEUTRALS	ND NO	1,900	MCG/KG	CM L:96 12/15
HETHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	4,700	MC6/KG	CM L:96 12/15
HNITROSODIPHENYLAMINE	SN-846 METHOD 8270 BASE/NEUTRALS	NO	940	MCG/KG	CM L:96 12/15
-BROMOPHENYL-PHENYL ETHER	SN-846 METHOD 8270 BASE/NEUTRALS	ND	940	MCG/KG	CH L:96 12/15
EXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	940	MCG/K6	CH L:96 12/15
ENTACHLOROPHENOL	SN-846 METHOD 8270 ACID EXTRACTABLES	NED CGM	4,700	MC6/K6	CH L:96 12/15
HENANTHRENE	SH-846 METHOD 8270 BASE/NEUTRALS	D	940	MC6/K6	CH L:96 12/15
NTHRACENE	SN-846 METHOD 8270 BASE/NEUTRALS	D	940	MC6/KG	CM L:96 12/15
II-N-BUTYLPHTHALATE	SH 846 METHOD 8270 BASE/NEUTRALS	NO	940	MCG/KG	CH L:96 12/15
LUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	1,500	940	MCG/KG	CM L:96 12/15
YRENE	SW-846 METHOD 8270 BASE/NEUTRALS	4,000	940	MCG/KG	CM L:96 12/15
UTYL-BENZYL PHTHALATE	SN-846 NETHOO 8270 BASE/NEUTRALS	NO NO	940	MCG/KB	CH L:96 12/15
,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	1,900	MCG/KG	CH L:96 12/15
ENZO(A) ANTHRACENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	940	MCG/KG	CH L:96 12/15
HRYSENE	SH-846 METHOD 8270 BASE/NEUTRALS	<u> </u>	940	HCG/KG	CH L:96 12/15
· · · · · · · · · · · · · · · · · · ·	SN-946 NETHOD 8270 BASE/NEUTRALS	ND NO	940	MC6/K6	CH L:96 12/15
I-N-OCTYL PHTHALATE	SH-846 METHOD 8270 BASE/NEUTRALS	MD	940	MCG/KG	CH L:96 12/15
	( CONTINUES ON NEXT PASE )				
REMARKS:					
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00 ROUTE 146	CONTROL OF THE PROPERTY OF THE				
LIFTON PARK NY 1206			- M		
		· · · · · · · · · · · · · · · · · · ·	CTM Tasi	· 911122	<b>R</b>
ttention: LAURIE WILLIAMS/BO	B PASS				
urchase Order Number: 63055.	001	A STATE OF THE STA	CTM Sagr	ole No: 911	1229 01
ate Sampled: 11/20/91 Time:				eived: 11/	
ampled By : BABLIN/WILLIAMS				on Method:	
ample Id: RR EASEMENT 1-A			Matrix:		
ocation : FRONTIER STONE/NIA	GARA MAT.				
arameters and Standard Method	dology Used	Results	POL.	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE )				
enzo(B) fluoranth <b>ene</b>	SN-846 METHOD 8270 BASE/NEUTRALS	ND ON	940	MCG/KS	CH L:96 12/15
enzo(K) fluoranthene	SH-946 METHOD 8270 BASE/NEUTRALS	ND	940	MCG/KG	CH L:96 12/15
ENZO(A) PYRENE	SH-846 METHOD 8270 BASE/NEUTRALS	08/	940	MCG/K6	CH L:96 12/15
	SN-846 METHOD 8270 BASE/NEUTRALS	<u>NO</u>	940	MCG/KG	CM L:96 12/15
IBENZO- (A ,H) -ANTHRACENE	SH-846 METHOD 8270 RASE/NEUTRALS	<u>ND</u>	940	MCG/K6	DH L:96 12/15
ENZO-(6,H,I)-PERLYENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	940	MCG/KG	CN L:96 12/15
,4,6-TRICHLOROPHENOL	SN-846 METHOD 8270 ACID EXTRACTABLES	ND	940	MCG/KG	CH L:96 12/15
ARGET COMPOUND LIST	PESTICIDES AND PCB'S	COMPLETED			GCCLP A:23 12/7
LPHA-BHC	EPA METHOD 8080	QN	4.8	MCG/KG	6COLP A:23 12/7
ETA-BHC	EPA METHOD 8080	<u>ND</u>	4.8	MCG/KG	6CCLP A:23 12/7
ELTA-BHC	EPA METHOD 8080	ND .	4.8	MCG/K6	600LP A:23 12/7
AMMA-BHC	EPA METHOD 8080	ND	4.8	MCG/KG	6CCLP A:23 12/7
EPTACHLOR	EPA METHOD 8080	ND	4.8	MCG/KG	6COLP A:23 12/7
LDRIN	EPA METHOD 8080	0N	4.8	HCG/KG	600LP A:23 12/7
EPTACHLOR EPOXIDE	EPA METHOD 8080	0	4.8	MCG/KG	6CCLP A:23 12/7
NDOSULFAN I	EPA METHOD 8080	ND NO	4.8	MCG/KG	600LP A:23 12/7
IELDRIN	EPA METHOD 8080	NO NO	10	MCG/KG	6001.P A:23 12/7
,4-DDE	EPA METHOD 8080	ON	10	MCG/KG	600LP A:23 12/7
NDRIN	EPA METHOD 8080	ND .	10	MCG/KG	6CCLP A:23 12/7
NDOSULFAN II	EPA METHOD 8080	<u>N0</u>	10	MCG/KG	6001P A:23 12/7
.4-DDD	EPA METHOD 8080	<u> </u>	10	MCG/KG	6CCLP A:23 12/7
ndosulfan sulfate	EPA METHOD 8080	ND	10	MCG/KG	600LP A:23 12/7
,4-DOT	EPA METHOD 8080	5.4J	10	MCG/KG	6CCLP A:23 12/7
ETHOXYCHLOR	EPA METHOD 8080	40J	48	MCG/KG	6CCLP A:23 12/7
NORIN KETONE	EPA METHOD 8080	NO	10	MCG/KG	6CCLP A:23 12/7
LPHA-CHLORDANE	EPA METHOD 8080	ЖО	48	MC6/K6	6CCLP A:23 12/7
AMMA-CHLORDANE	EPA METHOD 8090	NO NO	48	MCG/KG	6CCLP A:23 12/7
OXAPHENE PR-1016	EPA METHOD 8080	<u> </u>	96	HC6/K6	600LP A:23 12/7
CB-1016	EPA METHOD 8080	ND ND	48	MC6/KG	6001P A:23 12/7
CB-1221	EPA METHOD 8080	NO NO	48	MCG/KG	600LP A:23 12/7
	EPA METHOD 9080	ND ND	48	MCS/KS	6CCLP A:23 12/7
CB-1242	EPA METHOD 8090	ND ND	48	MCG/KG	600LP A:23 12/7
CB-1248	EPA METHOD 8080	NO NO	48	MCS/KG	6CCLP A:23 12/7
CB-1254	EPA METHOD 8080	NO	96	MCG/KG	6CCLP A:23 12/7
	( CONTINUES ON NEXT PAGE )				
			· · · · · · · · · · · · · · · · · · ·		

E+C			CTM_PRO	DJECT #: 91.	01401
900 ROUTE 146					
LIFTON PARK NY	12065				
			CTM Tas	sk #: 911122	<b>R</b>
Attention: LAURIE WILLIAM	S/BOB PASS			***************************************	
Purchase Order Number: 65	3055.001		CTM Sas	ple No: 911	122R 01
Date Sampled: 11/20/91 ]	Time: 7:00 PM			ceived: 11/	
Sampled By : BABLIN/WILL				ion Method:	
Sample Id: RR EASEMENT 1-			Matrix:	SOIL	
ocation : FRONTIER STONE	E/NIASARA MAT.				
Parameters and Standard P	fethodology Used	Results	PQL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE )				
CB-1260	EPA METHOD 8080	NB	96	MCG/KS	GCCLP A:23 12/7
SOLIDS	CLP SON 4/89	69	1	X	CC 12/3
A CHIMM	ICP, EPA METHOD 6010	15,700	56.0	MG/KG	A4:18 12/11
ANT I HONY	ICP, EPA METHOD 6010	NO	16.8	MG/KG	A4:18 12/11
RSENIC	SH-846_7060	10.0	_1.1	MG/KG	H6 A:782 12/13
ARIUM	ICP, EPA METHOD 6010	109	14.0	MG/KG	A4:18 12/11
CYANIDE DISTILLATION	STD. HETH. 15TH ED. 4128	COMPLETED			JOC 11/27
ERYLLIUM	ICP, EPA METHOD 6010	<u> </u>	1.4	MG/KG	A4:18 12/11
ADMIUM	ICP, EPA METHOD 6010	2.2	1.4	MG/KG	A4:18 12/11
ALCIUM	ICP, EPA METHOD 6010	35,400	28.0	MG/KG	A4:26 12/19
HROMIUM	ICP, EPA METHOD 6010	24.0	5.8	MG/KG	A:18 12/11
COBALT	ICP, EPA METHOD 6010	ND OC OCC	5.6	M6/K6	A4:18 12/11
ron Opper	ICP, EPA METHOD 6010	28,200	28.0	M6/K6	A4:18 12/11
EAD	ICP, EPA METHOD 6010	26.4	7.0	M6/K6	A4:18 12/11
ERCURY	ICP, EPA METHOD 6010 SW-846 7471	104	14.0	MG/K6	A4:18 12/11
AGNESIUM	ICP, EPA METHOD 6010	ND 31 400	0.14	MG/KG	C4:76 12/11
ANGANESE	ICP, EPA METHOD 6010	31,400 1,180	56.0 2.8	H6/K6	A4:18 12/11
OTASSIUM	EPA METHODS, 1979.258.1	1,890	288	MG/KG	A4:18 12/11
ELENIUM	SH-846 7740		1.4	MG/KG MG/KG	P5:35 12/10
ILVER	ICP, EPA METHOD 6010	ND ND	2.8	MG/KG	H6 A:713 12/10 A4:18 12/11
HALLIUM	S₩-846 7840	ND ND	2.7	MG/KG	HG A:709 12/5
ANADIUM	ICP, EPA METHOD 6010	33.8	5.6	MG/KG	A4:18 12/11
INC	ICP, EPA METHOD 6010	928	5.6	M6/K6	A4:18 12/11
H	STD. METH. 15TH ED.423	7.9		SU	CC 12/4
REMARKS:					
					(191
	: L	EGEND: ( = LESS THAN		•	0 = NOT DETECTED CS/L=PPB, MCS/G=PPH

D = RESULT IS ( POL, BUT ) MOL

01918

L			CTM PRO	JECT #: 91.0	1401
00 ROUTE 146					
LIFTON PARK NY 1206	5				
			LIM IAS	k #: 911122R	
Attention: LAURIE WILLIAMS/BO	B PASS				
A L N L COAPE	AA4		CTM Cam	ple No: 9111	226 12
urchase Order Number: 63055.				ceived: 11/2	
Pate Sampled: 11/20/91 Time: Sampled By: BABLIN/WILLIAMS				ion Method:	
SampleO by : BHBLIN/WILLIAMS Sample Id: AGST AREA 1-A			Matrix:		
ocation : FRONTIER STONE/NIA	RARA MAT.				
OCACION : I NON IEN O'GENERAL	Gradi 1911				
Parameters and Standard Metho	dology Used	Results	PQL	Unit	Analyst Reference
YANIDE. TOTAL W/ DISTILLATIO	NEPA 335.2 ; 335.3	MQ MQ	0.89	MG/KG	JOC 12/3
TARGET COMPOUND LIST VOLATILE	<u> </u>	COMPLETED			JB E:90 11/26
HLOROMETHANE	SW-846 METHOD 8240	<u>ON</u>	14	MCG/KG	JB E:90 11/26
JINYL CHLORIDE	SW-846 METHOD 8240	<u>N0</u>	14	MCG/KS	JB E:90 11/26
BROMOMETHANE	SW-846 METHOD 8240	NO NO	14	MCG/KG	JB E:90 11/26
CHLOROETHANE	SH-846 METHOD 8240	<u>ND</u>	14	MC6/KG	JB E:90 11/26
1,1-DICHLOROETHANE	SH-846 METHOD 8240	MD COMMITTEE	7.3	MCG/KG	JB E:90 11/26
ERCURY PREPARATION - SOLID		COMPLETED	7.3	MCG/KS	B8:104 12/5 J8 E:90 11/26
ETHYLENE CHLORIDE	SH-846 METHOD 8240	<u>D</u>	/.3 7.3	MCS/KS	JB E:90 11/26
TRANS 1,2-DICHLOROETHENE	SW-846 METHOD 8240	ND ND	7.3	MCG/KG	JB E:90 11/26
CIS 1,2-DICHLOROETHENE	SH-846 METHOD 8240	ND ND	7.3	MCG/KG	JB E:90 11/26
1,1-DICHLOROETHENE	SN-846 METHOD 8240 SN-846 METHOD 3050	COMPLETED		(ROJ/KU	D8:95 12/4
ACID DIGESTION - FURNACE	SH-846 METHOD 8240	ND NO	7.3	MCG/K6	JB E:90 11/26
CHLOROFORM ACID DIGESTION - FLAME/ICP	SN-846 3050	COMPLETED		1132713	D8:103 12/5
1.1.1-TRICHLORDETHANE	SN-846 METHOD 8240	ND	7.3	MCG/KG	JB E:90 11/26
CARBON TETRACHLORIDE	SH-846 METHOD 8240	NO	7.3	MCG/KG	JB E:90 11/26
BENZENE	SM-846 METHOD 8240	NO.	7.3	MC6/KG	JB E:90 11/26
NICKEL	ICP, EPA METHOD 6010	40.4	8.2	MG/KG	A4:18 12/11
1,2-DICHLOROETHANE	SN-846 METHOD 8240	ND NO	7.3	MCG/KG	JB E:90 11/26
TRICHLOROETHENE	SH-846 METHOD 8240	NO	7.3	MCG/KG	JB E:90 11/26
1.2-DICHLOROPROPANE	SN-846 METHOD 8240	NO	7.3	MCS/KS	JB E:90 11/26
BROMODICHLOROMETHANE	SW-846 METHOD 8240	NO	7.3	MCG/KG	JB E:90 11/26
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	NO	7.3	HCG/KG	JB E:90 11/26
TOLUENE	SN-846 METHOD 8240	<u>NO</u>	7.3	MCG/KG	JB E:90 11/26
CIS-1,3-DICHLOROPROPENE	SN-846 NETHOD 8240	NO NO	7.3	MCS/KG	JB E:90 11/26
1,1,2-TRICHLOROETHANE	SW-846 METHOD 8240	NO	7.3	MCG/KG	JB E:90 11/26
TETRACHLOROETHENE	SN-846 METHOD 8240	NO NO	7.3	MCG/KG	JB E:90 11/26
DIBROMOCHLOROMETHANE	SN-846 METHOD 8240	<u>ND</u>	7.3	MCG/KG	JB E:90 11/26 JB E:90 11/26
CHLOROBENZENE	SN-846 METHOD 8240	<u> </u>	7.3	MCG/KG MCG/KG	JB E:90 11/26 JB E:90 11/26
ETHYLBENZENE DOCHOGODE	SW-846 METHOD 8240	MD ND	7.3 7.3	MCG/KG	JB E:90 11/26
BROMOFORM	SN-846 METHOD 8240	COMPLETED	1+0	160/70	DO 11/27
EXTRACTION FOR TCL B/N		COMPLETED			00 11/27
EXTRACTION FOR TCL - ACIDS	SH-846 METHOD 8240	NO	7.3	MCG/KG	JB E:90 11/26
1,1,2,2-TETRACHLOROETHANE	SN-846 METHOD 8240	ND NO	7.3	MCG/KG	JB E:90 11/26
STYRENE	ON TOTO (SELIEUS DETV	: **	. 14	- 100- 100	
	( CONTINUES ON NEXT PAGE )				
	/ CONTINUES ON MENT I MAY /				

01913

ROJECT #: 91.	CTM	1.01401
	····	
ask #: 911128	CTM	22R
Sample No: 911	KTO	11122R 02
Received: 11/		<del></del>
ction Method:		······································
x: SOIL		
Unit	PI	Analyst Reference
MC6/KG	14	JB E:90 11/26
MC6/KG	7.3	JB E:90 11/26
MC6/K6	14	JB E:90 11/26
MCG/KG	14	JB E:90 11/26
		DO 11/27
MCG/KG	7.3	JB E:90 11/26
MCS/K6	14	JB E:90 11/26
MCG/KS	14	JB E:90 11/26
MG/KB	275	B5:39 12/11
	**************************************	CM L:97 12/15
MCS/KS	960	CH L:96 12/15
MC6/K6	960	CM L:97 12/15
MC6/K6	960	CM L:96 12/15
MCS/KG	960	CM L:97 12/15
MCG/KG	960	CH L:97 12/15
MCG/KG	1,90	CH L:97 12/15
MCG/KB	960	CH L:97 12/15
MCG/KG	960	CH L:96 12/15
MCG/K6	960	CH L:97 12/15
MCG/KG	960	CH L:96 12/15
MCG/K6	960	CH L:97 12/15
MC6/K6	960	CH L:97 12/15
MC6/K6	960	CM L:97 12/15
MCG/KG	960	CM L:97 12/15
MCG/K6	960	CM L:96 12/15
MCS/KG	960	CH L:97 12/15
MCS/KG	960	CH L:97 12/15
HCG/KG	960	CH L:97 12/15
MCG/KG	960	CH L:96 12/15
MCG/KG	960	CH L:97 12/15
MC6/K6	960	CH L:97 12/15
	1,90	CH L:97 12/15
MC6/K6	960	CH L:97 12/15
MCG/KG	1,90	CH L:96 12/15
····		

EHC			CTM PRO	JECT #: 91.0	01401	
900 ROUTE 146						
CLIFTON PARK NY 120	55					
		CTM Task #: 911122R				
Attention: LAURIE WILLIAMS/B	OB PASS					
>	AA4		OTV 0			
Purchase Order Number: 63055				ole No: 9111		
Date Sampled: 11/20/91 Time				ceived: 11/a		
Sampled By: BABLIN/WILLIAMS Sample Id: AGST AREA 1-A				ion Method:	Currolit	
Location : FRONTIER STONE/NI/	ACADA MAT		Matrix:	SUIL	W	
TOTAL TIME TOTAL TIME (NA	SACREST (IRI) :			***************************************		
Parameters and Standard Metho	odology Used	Results	PQL_	Unit	Analyst Reference	
	( CONTINUED FROM PREVIOUS PAGE )					
2-HETHYLNAPHTHALENE	SM-846 METHOD 8270 BASE/NEUTRALS	ND.	960	MCG/K6	CH L:97 12/15	
EXACHLOROCYCLOPENTADIENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	960	MCG/KG	CH L:97 12/15	
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	<u> </u>	960	MCG/KB	CH L:96 12/15	
2-CHLORONAPTHALENE	SH-846 METHOD 8270 BASE/NEUTRALS		960	MC6/K6	CH L:97 12/15	
2-NITROANILINE	SN-846 NETHOD 8270 BASE/NEUTRALS	ND ND	4,700	MC6/KG	CM L:97 12/15	
DIMETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	WD	<u>960</u>	HCG/KG	CH L:97 12/15	
ACENAPHTHYLENE	SN-846 NETHOD 8270 BASE/NEUTRALS	<u> </u>	960	MCG/KG	CM L:97 12/15	
2,6-DINITROTOLUENE 3-NITROANILINE	SH-846 METHOD 8270 BASE/MEUTRALS	<u> </u>	960	MCG/KG	CH L:97 12/15	
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND NO	4,700	MCG/KG	CN L:97 12/15	
4-DINITROPHENOL	SN-846 METHOD 8270 BASE/NEUTRALS SN-846 METHOD 8270 ACID EXTRACTABLES	ND ND	960 4,800	MCG/KG MCG/KG	CM L:97 12/15	
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND ON	960	MCG/KG	CM L:96 12/15 CM L:96 12/15	
DIBENZOFURAN	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	960	MC6/K6	CM L:97 12/15	
2.4-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND ND	960	HCG/KG	CH L:97 12/15	
DIETHYL PHTHALATE	SN-846 METHOD 8270 BASE/NEUTRALS	NEO NEO	<del>96</del> 0	MCG/KG	CN L:97 12/15	
-CHLOROPHENYL-PHENYL-ETHER	SM-846 METHOD 8270 BASE/NEUTRALS	ND	960	MCG/KG	CH L:97 12/15	
LUCRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	960	MCG/KG	CH L:97 12/15	
1-NITROANILINE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	1,900	MCG/KG	CM L:97 12/15	
-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	4,800	MCG/KG	CM L:96 12/15	
V-NITROSODIPHENYLAMINE	SN-846 METHOD 8270 BASE/NEUTRALS	NO	960	MCG/KG	CH L:97 12/15	
1-BROMOPHENYL-PHENYL ETHER	SH-846 METHOD 8270 BASE/NEUTRALS	ND	960	MCG/KG	CH L:97 12/15	
EXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	D	960	MC6/KG	CH L:97 12/15	
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	4,800	MCS/KS	CM L:96 12/15	
HENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	960	MC6/K6	CH L:97 12/15	
withracene	SN-846 METHOD 8270 BASE/NEUTRALS	NEO	960	MCG/KG	CH L:97 12/15	
)I-N-BUTYLPHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	NO	960	MCS/KG	CH L:97 12/15	
LUCRANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	<u> </u>	960	MC6/K6	CM L:97 12/15	
YRENE	SH-846 NETHOD 8270 BASE/NEUTRALS	ND NO	960	MCG/KG	CH L:97 12/15	
SUTYL-BENZYL PHTHALATE	SN-846 METHOD 8270 BASE/NEUTRALS	NED	960	MCS/KG	CH L:97 12/15	
3,3-DICHLOROBENZIDINE	SH-946 METHOD 9270 BASE/NEUTRALS	NED	1,900	MCG/KG	CH L:97 12/15	
ENZO(A) ANTHRACENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	960	MCG/KG	CH L:97 12/15	
HRYSENE DIC_/2_ETUVI_LUEVVI \ DUTUVI ATE	SH-846 METHOD 8270 BASE/NEUTRALS	NED NED	960	MC6/K6	CH L:97 12/15	
	SH-846 METHOD 8270 BASE/NEUTRALS	NO NO	960	MCS/KS	CM L:97 12/15	
)I-N-OCTYL PHTHALATE	SN-646 METHOD 8270 BASE/NEUTRALS	NO	960	MCS/KS	CH L:97 12/15	
	( CONTINUES ON NEXT PAGE )					
REMARKS:						
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EIC		CTM PROJECT #: 91.01401				
00 ROUTE 146		CIII I RUSEC: W. SI. OI401				
LIFTON PARK NY 1206	\$					
			CTH Tas	k #: 911122	R	
Attention: LAURIE WILLIAMS/BC	DB PASS					
Purchase Order Number: 63055.				ple No: 911		
Date Sampled: 11/20/91 Time:				ceived: 11/		
Sampled By : BABLIN/WILLIAMS			Collect	ion Method:	COMPOSITE	
Sample Id: AGST AREA 1-A		······	Matrix:	SOIL		
Location : FRONTIER STONE/NIA	SARA MAT.					
Parameters and Standard Metho	dology Used	Results	PQL	Unit	Analyst Reference	
	( CONTINUED FROM PREVIOUS PAGE )					
BENZO (B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	960	MCG/K6	CM L:97 12/15	
Benzo(K) Fluoranthene	SW-846 METHOD 8270 BASE/NEUTRALS	ND	960	MCG/KG	CH L:97 12/15	
Benzo(a) Pyrene	SW-846 METHOD 8270 BASE/NEUTRALS	ND	960	MCG/KS	CM L:97 12/15	
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	960	MCG/KG	CM L:97 12/15	
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND CM	960	MCG/K6	CM L:97 12/15	
SENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND ON	960	MC6/K6	CH L:97 12/15	
4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	960	MC6/K6	CM L:96 12/15	
TARGET COMPOUND LIST	PESTICIDES AND PCB'S	COMPLETED			GCCLP A:24 12/7	
ALPHA-BHC	EPA METHOD 8080	ND	4.8	MC6/K6	BCCLP A:24 12/7	
ETA-BHC	EPA METHOD 8080	ND NA	4.8	MCG/KG	GCCLP A:24 12/7	
ELTA-BHC	EPA METHOD 8080	4.0J	4.8	MCG/KB	SCCLP A:24 12/7	
AMMA-BHC	EPA METHOD 8080	NO	4.8	MCS/KG	GCCLP A:24 12/7	
EPTACHLOR	EPA METHOD 8080	ND	4.8	MCG/KG	600LP A:24 12/7	
LDRIN	EPA METHOD 8080		4.8	HCG/KG	GCCLP A:24 12/7	
EPTACHLOR EPOXIDE	EPA METHOD 8080	ND	4.8	MCG/KG	GCCLP A:24 12/7	
NDOSULFAN I	EPA METHOD 8080	ND	4.8	MCS/K6	6CCLP A:24 12/7	
DIELDRIN	EPA METHOD 8080	13	10	MCG/K6	6COLP A:24 12/7	
1,4-DDE	EPA METHOD 8080	6.9J	10	MCG/KG	GCCLP A:24 12/7	
NORIN	EPA METHOD 8080	ND	10	MCG/KG	6CCLP A:24 12/7	
ENDOSULFAN II	EPA METHOD 8080	ND	10	MCG/KG	GCCLP A:24 12/7	
1,4-DDD	EPA METHOD 8080	8.6J	10	MC6/K6	600LP A:24 12/7	
NDOSULFAN SULFATE	EPA METHOD 8080	ND SS	10	MCG/KG	6CCLP A:24 12/7	
,4-DDT	EPA METHOD 8080	33	10	MCG/KG	GCCLP A:24 12/7	
ETHOXYCHLOR	EPA METHOD 8080	12J	48	MCG/KG	GCCLP A:24 12/7	
ndrin ketone N.Pha-Chlordane	EPA METHOD 8080	NED NED	10	MCG/KG	6CCLP A:24 12/7	
ALPTH-LHLURDANE ANNA-CHLORDANE	EPA METHOD 8080	<u>M</u>	48	MCG/KG	600LP A:24 12/7	
OXAPHENE	EPA METHOD 8080 EPA METHOD 8080	ND DAN	<b>48</b> 97	MCG/KG	6CCLP A:24 12/7	
PCB-1016	EPA METHOD 8080	NED NED	48	HCG/KG HCG/KG	6CCLP A:24 12/7 6CCLP A:24 12/7	
CB-1221	EPA METHOD 8080	NO NO	48 48	MCG/KG	GCCLP A:24 12/7	
CB-1232	EPA METHOD 8080	NED NED	48	MCS/KS	6CCLP A:24 12/7	
CB-1242	EPA METHOD 8080	ND ND	48	MCG/KG	6CCLP A:24 12/7	
CB-1248	EPA METHOD 8080	ND ND	48	MC6/K6	6CCLP A:24 12/7	
CB-1254	EPA METHOD 8080	ND NO	<del>48</del> 97	MCS/KS	6CCLP A:24 12/7	
UV 1507		14	71	HLO/ND	UMAF RIEF IE//	
DENADUO.	( CONTINUES ON NEXT PAGE )					
REMARKS:					0192	

PC			CTM_PRO	JECT #: 91.	01401
900 ROUTE 146					
	12065				
ALLL   AHOTE UTILITAL	4C /DOD DACC		CTM Tas	k #: 911122	R
Attention: LAURIE WILLIAM	13/ 3UB PRSS		······································		
Purchase Order Number: 63				ple No: 911	
Date Sampled: 11/20/91 T				ceived: 11/	
Sampled By : BABLIN/HILL	IAS			ion Method:	COMPOSITE
Sample Id: AGST AREA 1-A			Matrix:	SOIL	
Location : FRONTIER STONE	ZNIAGARA MAT.				
Parameters and Standard Methodology Used		Results	POL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE	)			
PCB-1260	EPA METHOD 8080	ND	97	MCG/KG	SCCLP A:24 12/7
X SOLIDS	CLP SOM 4/89	69	_1	*	CC 12/3
ALUMINUM	ICP, EPA METHOD 6010	16,300	55.0	MG/K6	A4:18 12/11
ANT I MONY	ICP, EPA METHOD 6010	ND ND	16.4	MG/KG	A4:18 12/11
ARSENIC	SH-846 7060	11.4	1.1	MG/KB	HG A:722 12/13
BARIUM	ICP, EPA METHOD 6010	83.4	13.8	≓6/K6	A4:18 12/11
CYANIDE DISTILLATION	STO. METH. 15TH ED. 412B	COMPLETED			JOC 11/27
BERYLLIUM	ICP, EPA METHOD 6010	ND.	1.4	MG/KB	A4:18 12/11
CADHIUM	ICP, EPA METHOD 6010	5.0	1.4	MG/KG	A4:18 12/11
CALCIUM	ICP, EPA METHOD 6010	42,100	55.0	MG/KG	A4:23 12/17
CHROMIUM	ICP, EPA METHOD 6010	40.6	2.8	MS/K6	A4:18 12/11
COBALT	ICP, EPA METHOD 6010	11.0	5.4	M6/K6	A4:18 12/11
COPPER	ICP, EPA METHOD 6010	75.6	5.4	746/KG	A4:18 12/11
IRON	ICP, EPA METHOD 6010	47,800	27.4	MG/KG	A4:18 12/11
LEAD	ICP, EPA METHOD 200.7	505	13.8	MG/KG	A4:18 12/11
MAGNESIUM	ICP, EPA METHOD 6010	20,800	55.0	MG/KG	A4:18 12/11
MERCURY	SH-846 7471	NO	0.14	MS/KG	C4:76 12/11
MANGANESE	ICP, EPA METHOD 6010	2,880	2.8	MG/KG	A4:18 12/11
POTASSIUM	EPA METHODS, 1979.258.1	1,990	292	MG/KG	B5:35 12/10
SELENIUM	SH-846 7740	<u>NO</u>	1.4	MG/KG	HG A:713 12/10
SILVER	ICP, EPA METHOD 6010	<u>ND</u>	2.8	M6/KG	A4:18 12/11
THALLIUM	SH-846 7840	ND EA A	2.8	MG/KG	HG A:709 12/5
vanadium Zinc	ICP, EPA METHOD 6010	50.0	5.4	MG/KS	A4:18 12/11
PH PH	ICP, EPA METHOD 6010 STD. METH. 15TH ED.423		5.4	M6/K6 SU	A4:18 12/11 CC 12/4
		771			w 16 d last 1
REMARKS:					0192
		LEGEND: ( = LESS THAN			
		•		-	MCG/L=PPB, MCG/G=PPM
		D = RESULT IS	( POL, B	JT > HDL	

EHC	CTM PROJECT #: 91.01401
900 ROUTE 146	
CLIFTON PARK NY 12065	
	CTM Task #: 911122R
Attention: LAURIE WILLIAMS/BOB PASS	
Purchase Order Number: 63055.001	CTM Sample No: 911122R 03
Date Sampled: 11/20/91 Time: 6:30 PM	Date Received: 11/22/91
Sampled By : BABLIN/WILLIAMS	Collection Method: COMPOSITE
Sample Id: AGST AREA 2-A	Matrix: SOIL
Location : FRONTIER STONE/NIAGARA MAT.	

Parameters and Standard Meth	odology Used	Results	PQL	Unit	Analyst Reference
CYANIDE, TOTAL W/ DISTILLATI	ONEPA 335.2 ; 335.3	ND	0.84	MG/K6	JOC 12/3
TARGET COMPOUND LIST VOLATIL	ES	COMPLETED	***************************************		JB E:90 11/26
CHLOROMETHANE	SW-846 METHOD 8240	ND	14	MCG/KG	JB E:90 11/26
VINYL CHLORIDE	SN-846 METHOD 8240	ND	14	MCG/KB	JB E:90 11/26
BROMOMETHANE	SW-846 METHOD 8240	ND	14	MCG/KG	JB E:90 11/26
CHLOROETHANE	SW-846 METHOD 8240	ND	14	MC6/K6	JB E:90 11/26
1,1-DICHLOROETHANE	SW-846 METHOD 8240	ND	6.8	MCG/KG	JB E:90 11/26
MERCURY PREPARATION - SOLID	SN-846 METHOD 7471	COMPLETED			D8:104 12/5
METHYLENE CHLORIDE	SW-846 METHOD 8240	ND	6.8	MCG/KG	JB E:90 11/26
TRANS 1,2-DICHLORDETHENE	SH-846 METHOD 8240	ND	6.8	MCG/KS	JB E:90 11/26
CIS 1,2-DICHLOROETHENE	SW-846 METHOD 8240	מא	6.8	MCG/KG	JB E:90 11/26
1,1-DICHLOROETHENE	SN-846 METHOD 8240	שא	6.8	MC6/K6	JB E:90 11/26
ACID DIGESTION - FURNACE	SN-846 METHOD 3050	COMPLETED			D8:95 12/4
CHLOROFORM	SN-846 METHOD 8240	ND	6.8	MC6/K6	JB E:90 11/26
ACID DIGESTION - FLAME/ICP	SW-846 3050	COMPLETED			D8:103 12/5
1,1,1-TRICHLOROETHANE	SN-846 METHOD 8240	ND	6.8	MCS/KS	JB E:90 11/26
CARBON TETRACHLORIDE	SH-846 METHOD 8240	MD	6.8	MCG/KG	JB E:90 11/26
BENZENE	SW-846 METHOD 8240	ND	6.8	MCG/KG	JB E:90 11/26
NICKEL	ICP, EPA METHOD 6010	48.6	8.0	MG/KG	A4:18 12/11
1,2-DICHLOROETHANE	SN-846 METHOD 8240	ND	6.8	MCG/KG	JB E:90 11/26
TRICHLOROETHENE	SW-846 METHOD 8240	NO.	6.8	MCG/KG	JB E:90 11/26
1,2-DICHLOROPROPANE	SW-846 METHOD 8240	ND	6.8	MCG/KG	JB E:90 11/26
BROMODICHLOROMETHANE	SW-846 METHOD 8240	NO ON	6.8	MCG/KG	JB E:90 11/26
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	ND	6.8	MCG/KG	JB E:90 11/26
TOLUENE	SW-846 METHOD 8240	ND ON	6.8	MCG/KG	JB E:90 11/26
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	ND	6.8	MCG/KB	JB E:90 11/26
1,1,2-TRICHLOROETHANE	SW-846 METHOD 8240	ND	6.8	MCG/KG	JB E:90 11/26
TETRACHLOROETHENE	SW-846 METHOD 8240	ND	6.8	MCG/KG	JB E:90 11/26
DIBROMOCHLOROMETHANE	SN-846 METHOD 8240	ND	6.8	MCG/KG	JB E:90 11/26
CHLOROBENZENE	SN-846 METHOD 8240	ND	6.8	MC6/KG	JB E:90 11/26
ETHYLBENZENE	SW-846 METHOD 8240	ND	6.8	MCG/KG	JB E:90 11/26
Brongform	SH-846 HETHOD 8240	ND	6.8	MCG/KG	JB E:90 11/26
EXTRACTION FOR TCL B/N		COMPLETED			DO 11/27
1,1,2,2-TETRACHLORGETHANE	SH-846 METHOD 8240	ND	6.8	MC6/K6	JB E±90 11/26
EXTRACTION FOR TCL - ACIDS		COMPLETED			DO 11/27
STYRENE	SH-846 METHOD 8240	ND	6.8	HC6/K6	JB E:90 11/26

( CONTINUES ON NEXT PAGE )

REMARKS:

] <del>+C</del>		A	CTM PRO	JECT #: 91.0	01401
00 ROUTE 146					
LIFTON PARK NY 1206	55		***************************************	·····	
Attention: LAURIE WILLIAMS/BC	DB PASS	······································	CTM Tas	k #: 911122	
Purchase Order Number: 63055.				ple No: 911	
Date Sampled: 11/20/91 Time:				ceived: 11/a	
Sampled By : BABLIN/WILLIAMS				ion Method:	COMPOSITE
Sample Id: AGST AREA 2-A	SADA MAT	**************************************	Matrix:	SUIL	
Location : FRONTIER STONE/NIA	ISHISH ISHI.				
Parameters and Standard Metho	odology Used	Results	POL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE )				
ACETONE	SH-846 HETHOD 8240	ND	14	MCG/KG	JB E:90 11/26
CARBON DISULFIDE	SN-846 METHOD 8240	NO NO	6.8	MCG/KG	JB E:90 11/26
VINYL ACETATE	SN-846 METHOD 8240	ND ND	14	MC6/KG	JB E:90 11/26
HEXANONE	SW-846 METHOD 8240	ND ND	14	MCG/KG	JB E:90 11/26
XTRACTION FOR TCL PEST/PCB	EPA METHOD 8080	EXTRACTED			DO 11/27
(YLENE (TOTAL)	SM-846 METHOD 8240	מא	6.8	MCG/KG	JB E:90 11/26
-METHYL-2-PENTANONE (MIBK)	SH-846 METHOD 8240	NED .	14	MCG/KG	JB E:90 11/26
P-BUTANONE (MEK)	SM-846 METHOD 8240	ND ND	14	MCG/KG	JB E:90 11/26
SODIUM	EPA METHODS, 1979.273.1	ND.	268	MS/KG	B5:39 12/11
TARGET COMPOUND LIST	BASE/NEUTRAL/ACID EXTRACTABLES	COMPLETED			CH L:97 12/15
HENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	NB	890	MCG/K6	CM L:97 12/15
BIS-(2-CHLOROETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	890	MCS/KS	CH L:97 12/15
2-CHLOROPHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	NO NO	890	HCG/KB	CH L:97 12/15
1,3-DICHLOROBENZENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND NO	890	HCG/KG	CM L:97 12/15
L_4-DICHLOROBENZENE	SH-946 METHOD 8270 BASE/NEUTRALS	ND ND	890	MCS/KS	CM L:97 12/15
SENZYL ALCOHOL L.2-DICHLOROBENZENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	1,800	MC6/K6	CH L:97 12/15
2-METHYLPHENOL	SH-846 METHOD 8270 BASE/NEUTRALS SH-846 METHOD 8270 ACID EXTRACTABLES	ND ND	890 990	MCG/KG	CH L:97 12/15
	SW-846 METHOD 8270 BASE/NEUTRALS	ND ND	890 890	MCG/KG MCG/KG	CH L:97 12/15
I-METHYLPHENOL	SN-846 METHOD 8270 ACID EXTRACTABLES	ND NO	890 890	MC6/KG	CH L:97 12/15 CH L:97 12/15
HNITROSO-DIPROPYLAMINE	SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	890	MCS/KS	CH L:97 12/15
EXACHLOROETHANE	SN-846 NETHOD 8270 BASE/NEUTRALS	NO NO	890	MCG/KG	CH L:97 12/15
ITROBENZENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	890	MCG/KG	CH L:97 12/15
SOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	890	MC6/K6	CH L:97 12/15
-NITROPHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	00	890	MCG/KG	CH L:97 12/15
4-DINETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	890	MC6/K6	CM L:97 12/15
ENZOIC AICD	SN-846 METHOD 8270 BASE/NEUTRALS	NO 0N	4,400	MC6/K6	CM L:97 12/15
	SN-846 METHOD 8270 BASE/NEUTRALS	NO	890	MC6/K6	CH L:97 12/15
,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	890	MCS/KG	CM L:97 12/15
,2,4-TRICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	<u>N0</u>	890	MC6/K6	CM L:97 12/15
APHTHALENE	SW 846 METHOD 8270 BASE/NEUTRALS	<u> </u>	890	MCS/KS	CM L:97 12/15
-CHLOROANILINE	SH-846 METHOD 8270 BASE/NEUTRALS	ND NO	1,800	MCG/KG	CH L:97 12/15
EXACHLOROBUTADIENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	890	MC6/K6	CH L:97 12/15
-CHLORO-3-METHYLPHENOL	SH-946 METHOD 8270 ACID EXTRACTABLES	<u> </u>	1,800	HC6/K6	CH L:97 12/15
	( CONTINUES ON NEXT PAGE )				
REMARKS:					
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BC .			CTM PRO	JECT #: 91.	01401
900 ROUTE 146					
CLIFTON PARK NY 120	65				The state of the s
ALLELIE LABOTE UTILITANO (E	00 D400		CTM Tas	k <b>#:</b> 911122	R
Attention: LAURIE WILLIAMS/B	UB PRSS				
Purchase Order Number: 63055	: 1		CTM C	-1- N- 044	1000 00
Date Sampled: 11/20/91 Time				ple No: 911	
Sampled By : BABLIN/WILLIAM				ceived: 11/	
Sample Id: AGST AREA 2-A			Matrix:	ion Method:	CURPUSITE
Location : FRONTIER STONE/NI	AGARA MAT.		nati II i	SOIL	
Parameters and Standard Meth	odology Used	Results	POL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE )				
	CONTINUED FROM THE F				
2-HETHYLNAPHTHALENE	SM-846 METHOD 8270 BASE/NEUTRALS	D	890	MCG/KB	CM L:97 12/15
HEXACHLOROCYCLOPENTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	- ON	890	MCS/KS	CM L:97 12/15
4,5-TRICHLOROPHENOL	SN-846 METHOD 8270 ACID EXTRACTABLES	NÐ	890	MC6/K6	CH L:97 12/15
2-CHLORONAPTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	890	HCG/KG	CH L:97 12/15
2-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	NEO	4,400	MC6/K6	CM L:97 12/15
X SOLIDS	CLP 50W 4/89	73	1	*	CC 12/3
DIMETHYL PHTHALATE	SN-846 METHOD 8270 BASE/NEUTRALS	ND ND	890	MCS/KB	CH L:97 12/15
acenaphthylene	SW-846 METHOD 8270 BASE/NEUTRALS	NÐ	890	MCS/KS	CH L:97 12/15
e,6-DINITROTOLUENE	SN-846 METHOD 8270 BASE/NEUTRALS	NO	890	MCG/KB	CM L:97 12/15
3-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	OD	4,400	MCG/KG	CH L:97 12/15
ACENAPHTHENE	SH-846 METHOD 8270 BASE/NEUTRALS	DA COM	890	MC6/K6	CM L:97 12/15
2,4-DINITROPHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	ND .	4,400	MC6/K6	CH L:97 12/15
1-NITROPHENOL	SN-846 METHOD 8270 ACID EXTRACTABLES	<u>ND</u>	890	MCG/K6	CH L:97 12/15
DIBENZOFURAN	SW-946 METHOD 8270 BASE/NEUTRALS	ND ND	890	HCG/KG	CH L:97 12/15
2,4-DINITROTOLUENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	890	MCG/KG	CM L:97 12/15
DIETHYL PHTHALATE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	890	MC6/KB	CH L:97 12/15
T-CHLOROPHENYL-PHENYL-ETHER	SH-846 METHOD 8270 BASE/NEUTRALS	ND	890	MCG/KG	CM L:97 12/15
FLUORENE I-NITROANILINE	SH-846 METHOD 8270 BASE/NEUTRALS	ND ND	890	MCG/KG	CM L:97 12/15
2-METHYL-4,6-DINITROPHENOL	SN-846 METHOD 8270 BASE/NEUTRALS SN-846 METHOD 8270 ACID EXTRACTABLES	ND ND	1,800	MCG/KG	CM L:97 12/15
I-NITROSODIPHENYLAMINE		ND ND	4,400	MCG/KG	CH L:97 12/15
1-BROMOPHENYL-PHENYL ETHER	SN-846 METHOD 8270 BASE/NEUTRALS SN-846 METHOD 8270 BASE/NEUTRALS	NED NED	890	MC6/KG	CM L:97 12/15
EXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND ND	890 890	HCG/KG HCG/KG	CH L:97 12/15 CH L:97 12/15
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND ND	4,400	MCG/KG	CH L:97 12/15
HENANTHRENE	SM-846 METHOD 8270 BASE/NEUTRALS	ND ON	890	MCG/KB	CH L:97 12/15
WITHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND ND	890	MCG/KG	CM L:97 12/15
DI-N-BUTYLPHTHALATE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	890	MC6/K6	CH L:97 12/15
LUCRANTHEDE	SH-846 METHOD 8270 BASE/NEUTRALS	ND ON	890	MC6/K6	CM L:97 12/15
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	890	MCS/KG	CH L:97 12/15
EUTYL-BENZYL PHTHALATE	SN-846 METHOD 8270 BASE/NEUTRALS	ND ON	890	MCS/KS	CH L:97 12/15
,3-DICHLOROBENZIDINE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	1,800	MC6/K6	CH L:97 12/15
ENZO(A) ANTHRACENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	890	MCG/KG	CH L:97 12/15
HRYSENE	SH-846 METHOD 8270 BASE/NEUTRALS	ND	890	MC6/K6	CM L:97 12/15
IS-(2-ETHYL-HEXYL) PHTHALATE	SN-846 METHOD 8270 BASE/NEUTRALS	NO	890	MCS/KS	CM L:97 12/15
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DEMAN/A					
REMARKS:		***************************************			

EHC .		י חסם עדין	ECT #: 91.0	11801	
900 ROUTE 146		LIN PROL	cul si yid	11401	
CLIFTON PARK NY 1206					
CALLE LANGE TO THE SECOND SECO		CTM Taek	#: 911122E	<u> </u>	
Attention: LAURIE WILLIAMS/BC	18 PASS			** ********************************	
TANKAT MARKATAN					
Purchase Order Number: 63055.	.001		CTM Sago	le No: 9111	22R 03
Date Sampled: 11/20/91 Time:		•	eived: 11/2		
Sampled By : BABLIN/WILLIAMS			Collecti	on Method:	COMPOSITE
Sample Id: AGST AREA 2-A			Matrix:	SOIL	
Location : FRONTIER STONE/NIA	SARA MAT.				· · · · · · · · · · · · · · · · · · ·
Parameters and Standard Metho	dology Used	Results	POL	Unit	Analyst Reference
	( CONTINUED FROM PREVIOUS PAGE )		<del></del>		
	AND THE PROPERTY OF				
DI-N-OCTYL PHTHALATE	SM-846 METHOD 8270 BASE/NEUTRALS	NO.	890	MCG/KG	CM L:97 12/15
BENZO(B) FLUORANTHENE	SN-846 METHOD 8270 BASE/NEUTRALS	NID	890	MCG/KG	CH L:97 12/15
BENZO(K) FLUORANTHENE	SN-846 METHOD 8270 BASE/NEUTRALS	ND	890	MC6/KB	DI L:97 12/15
BENZO(A) PYRENE	SH-846 METHOD 8270 BASE/NEUTRALS	NO	890	MCG/KG	CH L:97 12/15
	SM-B46 METHOD 8270 BASE/NEUTRALS	N0	890	MCG/KG	CH L:97 12/15
DIBENZO- (A.H)-ANTHRACENE	SM-846 METHOD 8270 BASE/NEUTRALS	NO	890	MCG/KG	CH L:97 12/15
BENZO- (G,H,I)-PERLYENE	SH-846 METHOD 8270 BASE/NEUTRALS	NO.	890	MCG/K6	CH L:97 12/15
2,4,6-TRICHLOROPHENOL	SH-846 METHOD 8270 ACID EXTRACTABLES	ND	890	MCG/KG	CH L:97 12/15
TARGET COMPOUND LIST	PESTICIDES AND PCB'S	COMPLETED	A A	HOC 1115	GCCLP A:24 12/7
ALPHA-BHC	EPA METHOD 8080	ND NO	4.4	MCG/KG	6CCLP A:24 12/7
BETA-BHC	EPA METHOD 8080	NO NO	4.4	MCG/KG	6CCLP A:24 12/7
Delta-BHC Ganna-BHC	EPA METHOD 8080 EPA METHOD 8080	ND ND	4.4	MC6/KB MC6/KB	GCCLP A:24 12/7 GCCLP A:24 12/7
HEPTACHLOR	EPA METHOD 8080	ND ND	4.4	HCG/KG	6CCLP A:24 12/7
ALDRIN	EPA NETHOD 8080	ND.	4,4	MCS/KS	6CCLP A:24 12/7
HEPTACHLOR EPOXIDE	EPA METHOD 8080	NO	4.4	MCG/KG	6CCLP A:24 12/7
ENDOSULFAN I	EPA METHOD 8080	ND ND	4.4	MCG/KG	6COLP A:24 12/7
DIELDRIN	EPA METHOD 8080	5.2J	4.4	MCG/KG	GCCLP A:24 12/7
4,4-DOE	EPA METHOD 8080	13	4.4	MCG/KG	GCCLP A:24 12/7
ENDRIN	EPA NETHOD 8090	NO .	8.8	MCG/KG	GCCLP A:24 12/7
ENDOSULFAN II	EPA METHOD 8080	ND	8.8	MC6/KG	SCOLP A:24 12/7
4,4-DDD	EPA METHOD 8080	11	8.8	MCG/KB	GCCLP A:24 12/7
endosulfan sulfate	EPA METHOD 8080	ND	8.8	MC6/KG	GCCLP A:24 12/7
1,4-DOT	EPA NETHOD 8090	44	8.8	MCG/KIB	600LP A:24 12/7
ETHOXYCHLOR	EPA METHOD 8080	18J	44	MCG/KB	6COLP A:24 12/7
ENDRIN KETONE	EPA METHOD 8080	1.3J	8.8	MC6/KG	SCOLP A:24 12/7
ALPHA-CHLORDANE	EPA METHOD 8080	NO NO	44	MC6/KG	6CCLP A:24 12/7
GAMMA-CHLORDANE FOXAPHENE	EPA METHOD 8080 EPA METHOD 8080	ND ND	88	MCG/KG MCG/KG	GCCLP A:24 12/7 GCCLP A:24 12/7
CB-1016	EPA HETHOD 8080	ND ND	44	MCG/KG	GCCLP A:24 12/7
CB-1221	EPA METHOD 8080	ND ND	44	MCG/KB	6CCLP A:24 12/7
CB-1232	EPA NETHOO 8080	ND ND	44	MC6/KG	6CCLP A:24 12/7
CB-1242	EPA METHOD 8080	ND ND	44	MC6/KB	600LP A:24 12/7
PCB-1248	EPA NETHOD 8080	ND	44	MC6/KB	6CCLP A:24 12/7
	( CONTINUES ON NEXT PAGE )				
REMARKS:					
					01928

EHC 900 ROUTE 146		CTM PROJECT #: 91.01401							
the state of the s	12065				<u></u>				
		CTM Tas	k #: 911122	R					
Attention: LAURIE WILLIA	MS/BOB PASS								
Purchase Order Number: 6	3055.001		CTM Sam	ple No: 911	122R 03				
Date Sampled: 11/20/91 Time: 6:30 PM Sampled By: BABLIN/WILLIAMS Sample Id: AGST AREA 2-A			Date Received: 11/22/91						
				ion Method:	COMPOSITE				
			Matrix: SOIL						
ocation : FRONTIER STON	L/NIAGARA MAT.								
arameters and Standard	Methodology Used	Results	PQL	Unit	Analyst Reference				
	( CONTINUED FROM PREVIOUS PAGE )								
CB-1254	EPA METHOD 8080	ND	88	MCG/KG	6CCLP A:24 12/7				
CB-1260	EPA METHOD 8080	NO	88	MCG/KG	GCCLP A:24 12/7				
LUMINUM	ICP, EPA METHOD 6010	18,200	53.4	MG/KG	A4:18 12/11				
NTIMONY	ICP, EPA METHOD 6010	ND	16.0	MG/KG	A4:18 12/11				
RSENIC	SW-846 7060	10.9	1.1	M6/KG	H6 A:722 12/13				
YANIDE DISTILLATION	STD. METH. 15TH ED. 4128	COMPLETED			JOC 11/27				
ARIUM	ICP, EPA METHOD 6010	80.8	13.4	MG/KG	A4:18 12/11				
ERYLLIUM	ICP, EPA METHOD 6010	NO	1.3	MG/KG	A4:18 12/11				
ADHIUM	ICP, EPA METHOD 6010	ND 15 500	1.3	MG/KS	A4:18 12/11				
ALCIUM	ICP, EPA METHOD 6010	12,800	53.4	MG/KG	A4:18 12/11				
HROMIUM OBALT	ICP, EPA METHOD 6010	113	2.6	MG/KG	A4:18 12/11				
RON	ICP, EPA NETHOD 6010 ICP, EPA NETHOD 6010	14.4 43,600	5.3 26.8	MG/KG MG/KG	A4:18 12/11 A4:18 12/11				
OPPER	ICP, EPA METHOD 6010	81.0	6.6	MG/KS	A4:18 12/11				
EAD	ICP, EPA METHOD 6010	194	13.4	M6/KG	M:18 12/11				
AGNESIUM	ICP, EPA METHOD 6010	7,560	53.4	M6/K6	A4:18 12/11				
ERCURY	SN-846 7471	ND	0.14	MG/KG	C4:76 12/11				
ANGANESE	ICP, EPA METHOD 6010	1,860	2.6	MG/KG	A4:18 12/11				
OTASSIUM	EPA METHODS, 1979.258.1	2,150	273	MG/KG	85:35 12/10				
ELENIUM	S <del>N 846</del> 7740	ND ND	1.4	MG/KB	HG A:713 12/10				
ILVER	ICP, EPA METHED 6010	ND	2.6	MG/KB	A4:18 12/11				
HALLIUM	SN-846 7840	NO	2.7	MG/KG	HG A:709 12/5				
ANADIUM	ICP, EPA METHOD 6010	70.0	5.4	MG/KS	A4:18 12/11				
INC	ICP, EPA METHOD 6010	498	5.4	MG/KG	A4:18 12/11				
<u> </u>	STD. METH. 15TH ED.423	7.6		SU	CC 12/4				
REMARKS:									
					0192				
		LESEND: ( = LESS THAN	\ _ COEA	TED TIME N					

EGENO: ( = LESS THAN, ) = GREATER THAN, NO = NOT DETECTED

HG/KG=PPM, HCG/KG=PPB, HG/L=PPM, HCG/L=PPB, HCG/G=PPM

D = RESULT IS ( PSL, BUT ) HOL

15 Century Hill Drive P.O. Box 727 Latham, NY 12110 518-786-7100 FAX 518-786-7139



# LABORATORY SERVICES

# CHAIN OF CUSTODY RECORD

CLIENT AND PROJECT N	AME		*****.	SAMPI	SS: (Signat	ure) /	N.	2011	/	
	ntier Stone - Nias	os W	la Leas le							. د د .
ETT / FFG	ntier Olong Mig	Q14 11	4 10124	TIME					KRE	<u>-1 A</u>
CTM SAMPLE NUMBER	SAMPLE IDENTIFICATION & LOC	CATION	DATE	A = a.m. P = p.m	SAMPLE	COMP	NUMB O OF	ANA	ALYSIS REQU	IRED
1/22RO	RR EASMENT.	1- A	11/20/91		انكرا	X	2	vo	A	
	RRE N			70 A	50.1	x	1	(TCL)	BNA,	P/i
				4 P	\$.1	x	1	(TCL)	Meta	:15
$\bigvee$	7		J	V A	50.1	X	1	(tcl)	CH(	- )
\\ \rm \text{\rm \rm \rm \rm \rm \rm \rm \rm \rm \rm	AGST area 1-	A	11/20/9	3	56.1	×	2	VOA	!	
			1	A	Soil	x	1	(tcL)	BNA,	P/r
	* *			A	501	K	1	(tcl)	Meta	کاد
V			J	V A	Soil	<		(+cr)	CHE	-)
$\bigcirc$ 3	AST area 2:	- A	11/20/4	30 4	50.1	x	マ	Vor	1	
		ند :	الخز	A	Soil	×	1	LTCL	) BNA	1,81
		-		A	ایی،ا	V	1	(tcc)	met	als
				V.	50,1	x	. 1	HCL	) en	/(-)
Religious ped by: (Signoylys)		Rece	Received by: (Signature)						Date/	Time
27/		Recei	Received by: (Signature)						Date/	Time
		Recei	Received by: (Signature)							Date/Time
			eived by Mobile Laboratory for field lysis: (Signature)						Date/	Time
Disposched by: (Sign		e/Time	Receive	ed for	Laborat	7)	TO	¥	110010/	Time
Method of Shipmer			1					7		*

CTM-07000-01 (8/88

Distribution: Orig. – Accompany Shipment

1 Copy – Coordinator Field Files

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