2021 Hazardous Waste Scanning Project

File Form Naming Convention.

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Note 1: Each category is separated by a period "."
Note 2: Each word within category is separated by an underscore "_"

Specific File Naming Convention Label:

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Remedial Action Site Investigation:
Niagara Falls Boulevard and 70th Street
Niagara Falls, NY

submitted to:

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Environmental Conservation
600 Delaware Avenue
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submitted by:

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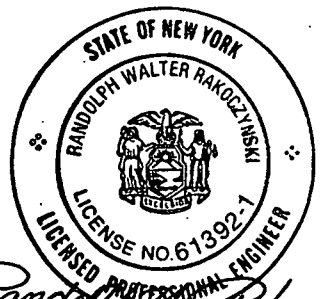
Waste Resource Associates, Inc.
2576 Seneca Avenue
Niagara Falls, NY 14305

August 1991

56-0113

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Randolph W. Rakoczynski

9-13-91

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Executive Summary

Tops Markets, Inc. (Tops) is the owner of a parcel of land which is approximately twenty (20) acres and is located north of Niagara Falls Boulevard between 70th Street and 72nd Street in the City of Niagara Falls, NY. It is the intent of Tops Markets, Inc. to develop this property by constructing a 101,000 square foot retail superstore on the site.

The New York State Department of Environmental Conservation (NYSDEC) has established that a portion of the Tops owned property is included within the boundaries of the 64th Street North Inactive Hazardous Waste Disposal Site (Site No. 932085A). The NYSDEC has given this site a 2A classification which indicates that inadequate and/or insufficient data exists to place the site in any of the other classifications.

The inclusion of the Tops property as part of the 64th Street North site has temporarily delayed the planned development of the parcel and has required the initiation of an extensive Remedial Action Site Investigation. This site investigation was designed and performed in order to obtain adequate and sufficient data to fully characterize the Tops site and allow for a comprehensive determination as to whether any materials on-site are classified as hazardous (per 6NYCRR Part 373) or are posing a significant threat to human health or the environment. This determination was based on information derived from various investigative tasks including;

- Review of the NYSDEC Phase I Investigation Report for the 64th Street North Inactive Hazardous Waste Disposal Site,
- Summation and evaluation of data generated by site assessments previously completed at the Tops parcel, and,
- Analysis of extensive and comprehensive analytical testing data derived from the current Remedial Action Site Investigation.

The Phase I Investigation of the 64th Street North Site was performed and the report submitted to NYSDEC in 1988. This report was a summary of the findings of various investigations that were completed on-site. These findings included:

1) The site was landfilled with municipal and commercial waste, however, disposal of industrial waste is not suspected.

2) Analytical testing of soil samples by USGS in 1982 did not detect any constituents at levels significantly above normal background levels.

3) Soil testing by NUS Corp. in 1985 detected only two (2) inorganic constituents at concentrations exceeding local soil background levels.

4) Woodward-Clyde Consultants conducted soil sampling and analysis in 1986 for the Texas Brine Corporation. The results of the analytical testing of samples taken along the Texas Brine pipeline right-of-way (northern boundary of the 64th Street North Site) indicated that excess excavated soils could be considered to be free of contamination for the purpose of disposal.

5) Analysis of a downgradient groundwater sample by USGS in 1985 did not identify any constituents that significantly exceeded the NYS Class GA groundwater standards.

6) Various organic constituents, primarily polycyclic aromatic hydrocarbons (PAHs), have been detected in soil samples. This is not uncommon for soils in urban areas where asphalt pavement is prevalent. Sixty (60) to seventy (70) percent of the 64th Street North Site is now covered by either pavement or buildings, indicating that the former disposal site has been extensively developed.

The Tops Markets, Inc. property is located at the extreme southeastern corner of the 64th Street North Site. Over the past three (3) years, extensive site assessment work has been completed on the Tops property as well as an adjacent parcel.

These site investigations have involved the following field activities;

- advancement of sixty-seven (67) soil borings,
- surface soil sampling at eleven (11) sites, and,
- installation of seven (7) groundwater monitoring wells.

Laboratory analysis of samples taken at these sites has included;

- sixty (60) subsurface soil samples,
- eleven (11) surface soil samples, and,
- six (6) groundwater samples.

A comprehensive geological and analytical database has been generated as a result of the various investigations performed at the Tops site. When the information contained within this broad database is presented in a condensed fashion, the following conclusions can be made;

1) The volume and nature of the site assessment work performed at the Tops property is adequate and sufficient to fully characterize the site.

2) The Tops parcel has been backfilled with construction and demolition debris which exists across the site at an average depth of three (3) to five (5) feet.

3) Analytical testing of soil and groundwater samples has not identified levels of contaminants which could be considered as significantly elevated when compared to normal background levels (with the exception of mercury contamination detected in a few locations).

4) The results of TCLP testing has shown that inorganic constituents which have been detected on-site (including mercury) are present in an insoluble matrix, are not mobile and would not be likely to contribute to groundwater degradation nor expected to migrate from the site.

5) The contaminants that have been detected on-site have been predominately from samples taken of the non-indigenous "fill" materials which exist on the property.

6) The low permeability of the underlying, indigenous clay layer which has been identified across the site has been an effective barrier to vertical migration of any contamination that may be present.

On the basis of all previous studies conducted on and around the Tops Markets parcel and the most recent, intensive sub-surface investigation conducted on the property, the levels of contamination identified do not pose a threat to human health or the environment and de-listing of the Tops Markets parcel should be granted so that development of the proposed supermarket facility can proceed.

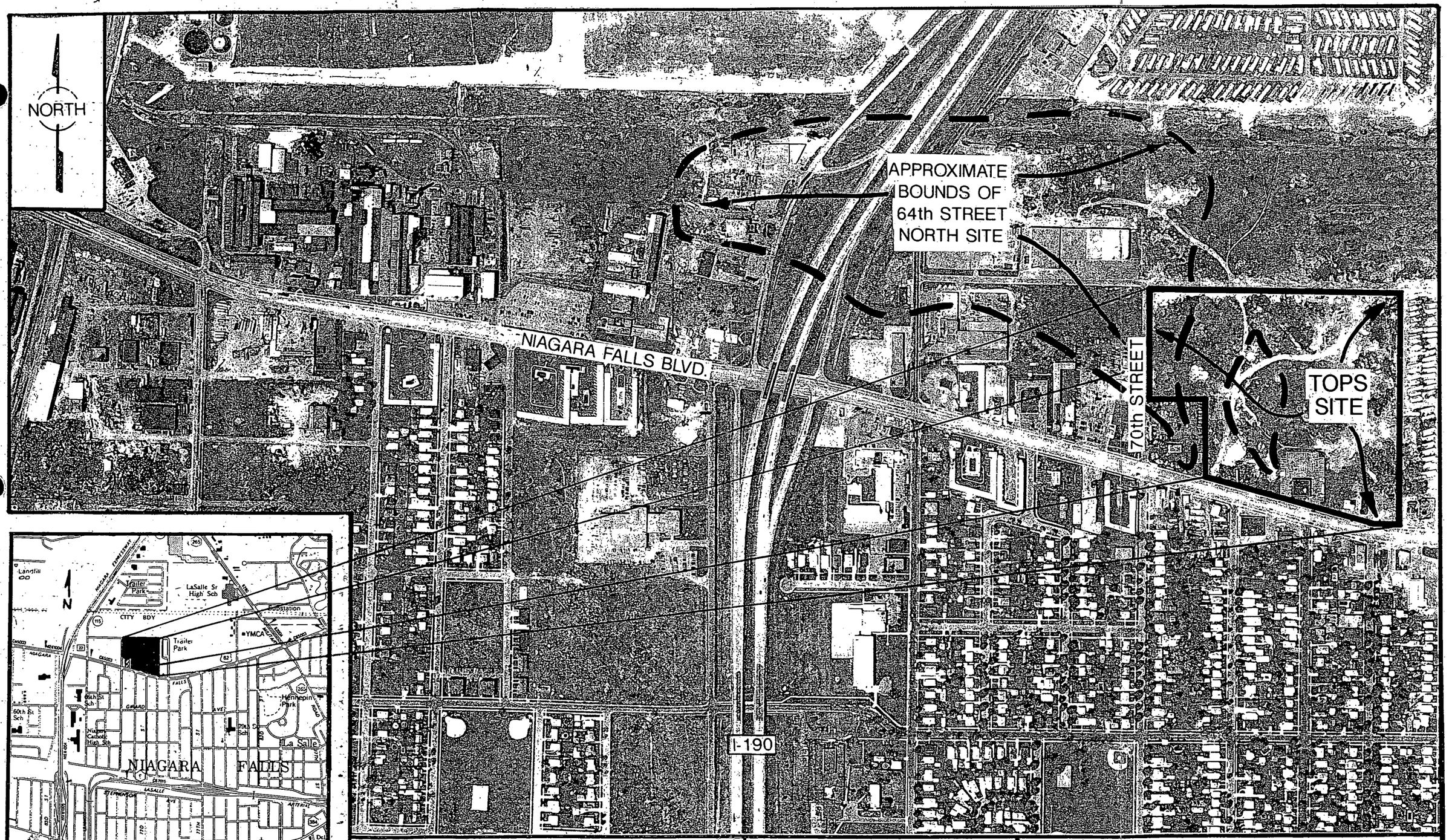
Introduction

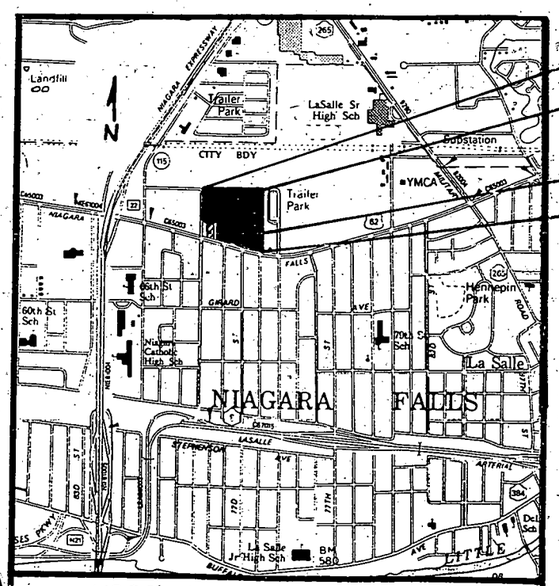
This document summarizes the findings and analytical testing results of the Remedial Action Site Investigation which was performed on approximately twenty (20) acres of property located north of Niagara Falls Boulevard between 70th Street and 72nd Street (see Figure 1 - Site Location). This parcel is proposed to be developed by Tops Markets, Inc. (Tops) and is scheduled to be the site of a 101,000 square foot retail superstore facility.

The New York State Department of Environmental Conservation (NYSDEC) has identified a portion of the subject property as being included in the 64th Street North Inactive Hazardous Waste Disposal Site. The site has been given a "2A" classification indicating that inadequate and/or insufficient data is available to place it in a more precisely defined category (i.e. hazardous or non-hazardous).

The Tops parcel was previously a low lying, swampy area which has been extensively backfilled over a period of time with construction and demolition debris (primarily concrete, asphalt, wood, gravel, brick, etc.). Numerous site investigations have identified the "fill" material to exist at depths of between two (2) and eight (8) feet across the property.

The purpose of this investigation is to obtain sufficient information to fully characterize the property and determine if any materials deposited on-site are classified as hazardous as defined by 6NYCRR Part 373 or if any contamination which may be present is causing a significant threat to human health or the environment. Such information will be derived from the analysis of subsurface soil samples taken on-site and will be used in support of various site-specific determinations including:





USGS TOPOGRAPHICAL MAP
NIAGARA FALLS QUADRANGLE
1989

WASTE RESOURCE ASSOCIATES, INC.

TOPS MARKETS
NIAGARA FALLS &
70th STREET PARCEL

FIGURE 1
SITE LOCATION
AERIAL PHOTOGRAPH OF NIAGARA FALLS 1982

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- Characterization of construction and demolition "fill" material,
- Characterization of underlying, indigenous soil,
- Detection of vertical contaminant migration (if any),
- Classification of "fill" material to assure proper handling, transport, and,
- Evaluation of analytical data pursuant to delisting of the property from inclusion in the 64th Street North Inactive Hazardous Waste Disposal Site.

The objective of this investigation is to collect data of sufficient scope and volume to adequately characterize the subject property and to present this information as conclusive and definitive evidence supporting the delisting of the property and permitting the future planned development of the parcel by Tops Markets, Inc.

Field Operations Summary

The twenty (20) proposed sampling sites at the Niagara Falls Boulevard and 70th Street parcel were located in the field and staked by a crew from Waste Resource Associates, Inc. on June 6th, 1991. The sampling sites were set on a 200-foot by 200-foot grid pattern which was delineated using taping techniques from established survey markers at the corners of the parcel (see Figure 2 - Test Boring Locations).

Soil samples were collected over a three day period from Monday, June 17 thru Wednesday, June 19, 1991. The sequence of sampling events at individual test borings along with the corresponding dates are shown on Figure 3 - Test Boring Sequence.

As part of this field investigation, an HNu Photoionization Detector was used to measure any organic vapors that may have been released as a result of subsurface sampling. In the event that organic vapors would have been detected at 5 ppm above background readings, guidelines contained within the Health and Safety Plan would require Level C protection for all site workers.

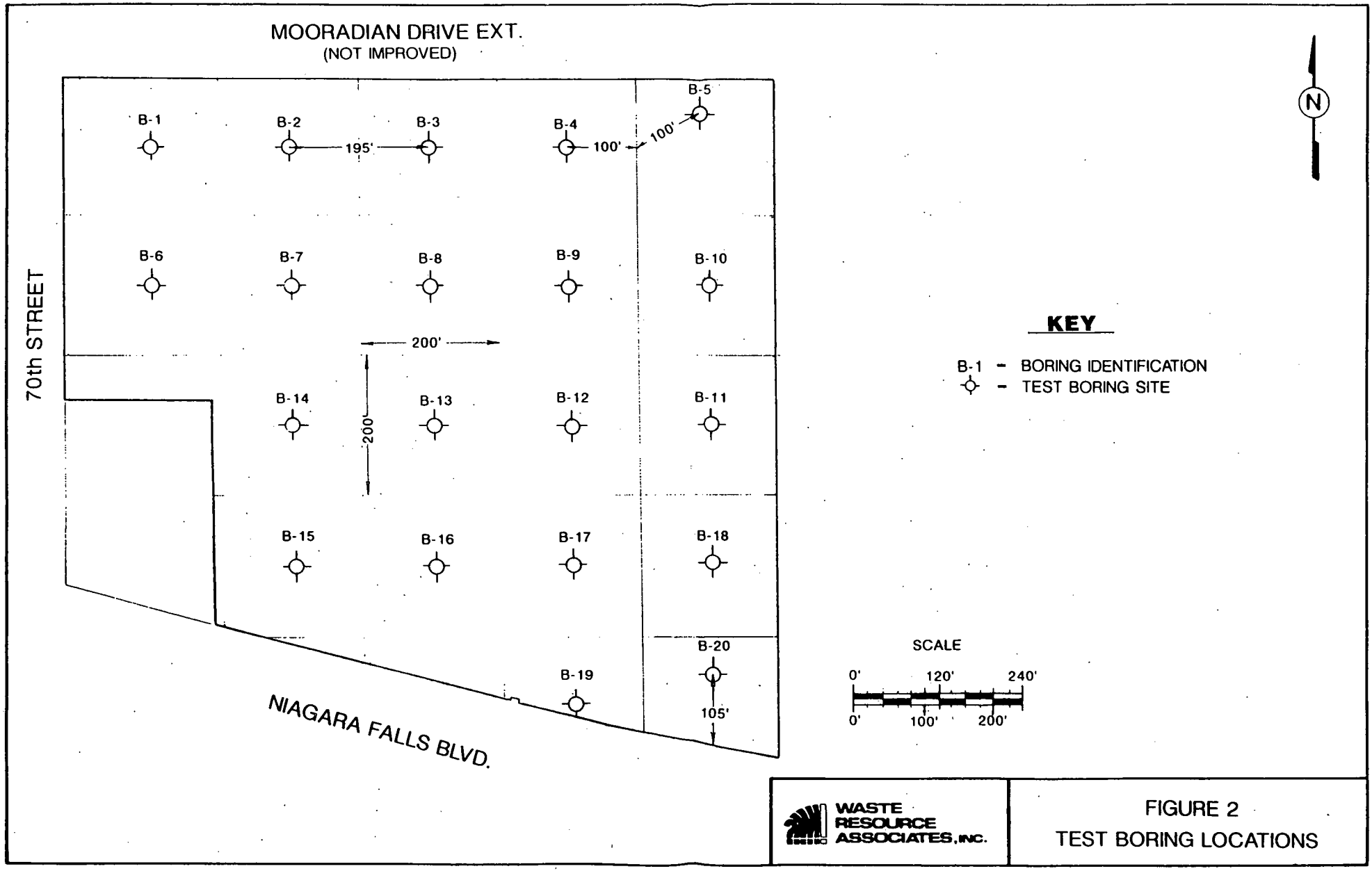
Prior to the commencement of sampling activities, background readings were taken with the HNu meter at several locations around the perimeter of the site. Additional background readings were taken at various time intervals throughout each day during which sampling occurred. Figure 4 of this report summarizes the HNu background readings and includes date, time, location, and concentration level. HNu readings were also taken on each, individual split-spoon sample to measure the concentration of volatile organic contaminants present in the subsurface that may possibly cause the release of vapors to occur when brought to the surface. The results of these measurements are presented on the individual soil boring logs under the column labeled PID (see Exhibit 1 - Soil Boring Logs).

All phases of the site investigation have been documented either by notations made in the field log book or by photographs of field operations. Exhibit 2 of this report contains numerous photographs which depict field sampling activities. The various notations and data entries contained within the field log book which relate to sample characterization have been summarized and are included on the individual Soil Boring Logs (see Exhibit 1).

Advancement of test borings at the twenty (20) locations assigned as sampling sites was performed by Empire Soils Investigations, Inc. using a small, trailer-mounted drill rig. Representative soil samples were obtained through use of 2-inch O.D. split-spoon samplers in conjunction with 2-1/4-inch I.D. hollow stem augers. Individual test borings were advanced through the overlying construction and demolition "fill" material and were terminated when the underlying indigenous soils were encountered. Each soil sample was described and logged on-site by a geologist and was subjected to an HNu meter scan to detect any organic vapors that may have been emitted.

At each test boring site, two (2) soil samples were taken for analysis. These two samples contained subsurface materials that were representative of either the overlying "fill" or of the underlying, indigenous soil. The labeled samples were held in chilled coolers and were delivered to the analytical testing lab at the end of each day. At each test boring, overlying "fill" samples were identified as Sample #1 (i.e. B-1-1) and indigenous soil samples identified as Sample #2 (i.e. B-1-2). Chain of Custody records for all samples are included as Exhibit 8 of this report.

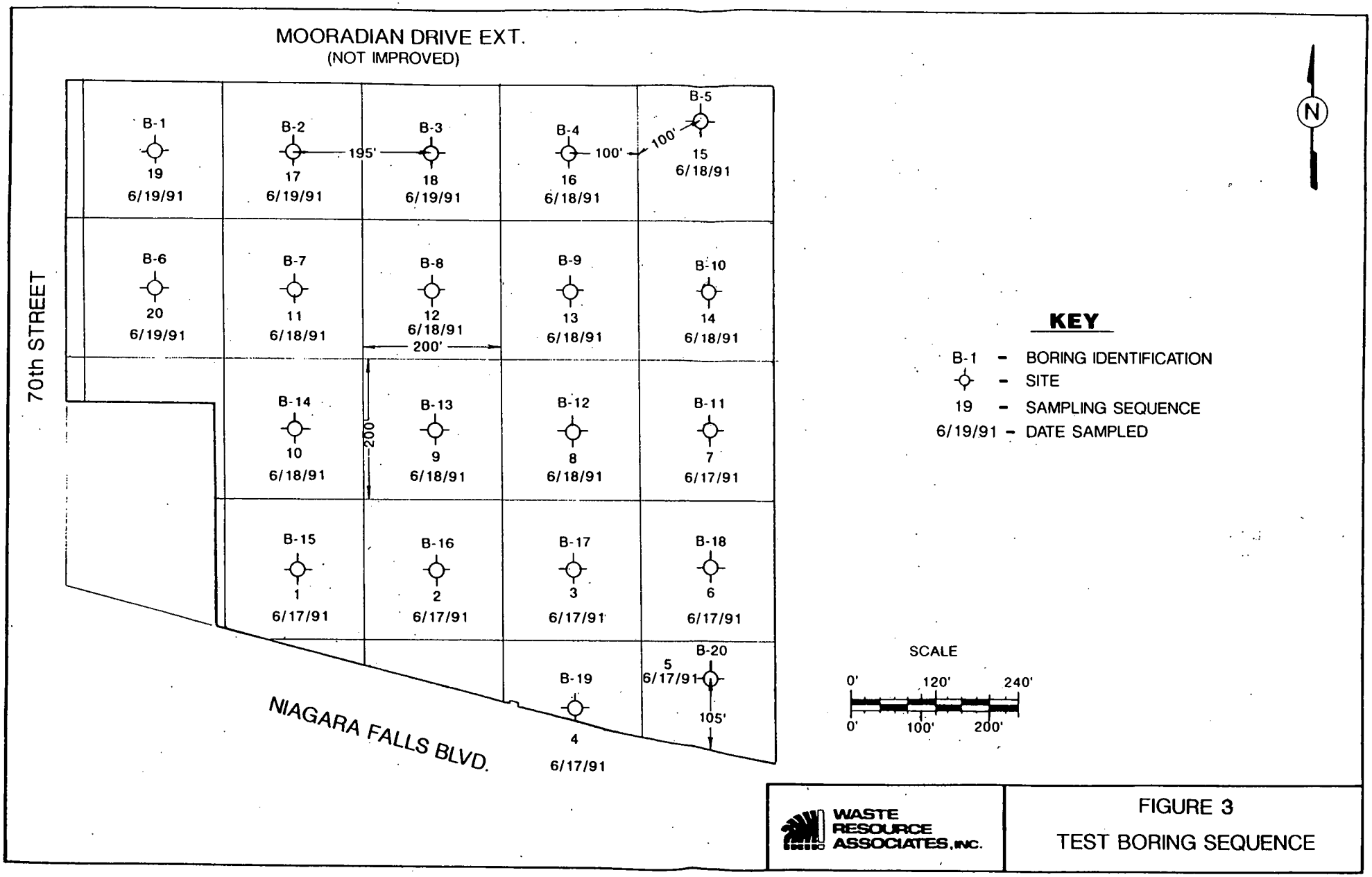
Figure 5 of this report presents a summary of test boring operations and sampling activity including boring identification, date sampled, total depth, sample identification and interval collected.



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FIGURE 2
TEST BORING LOCATIONS

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FIGURE 3
TEST BORING SEQUENCE

Figure 4

TOPS Markets, Inc.
Niagara Falls Boulevard and 70th Street
Remedial Action Sampling and Analysis Data

HNu Photoionization Detector Survey
Background Readings

Date/Time	Location	Level
6/17/91 8:20 am	Rosa's Parking Lot	0.4 ppm
6/17/91 8:50 am	Corner of 70th Street & Mooradian Drive	0.4 ppm
6/17/91 8:55 am	200' East of Previous Location	0.4 ppm
6/17/91 8:57 am	300' East of Previous Location	0.3 ppm
6/17/91 8:59 am	200' East of Previous Location	0.3 ppm
6/17/91 9:01 am	300' East of Previous Location	0.3 ppm
6/17/91 9:55 am	Test Boring-15	0.3 ppm
6/17/91 10:30 am	Rosa's Parking Lot	0.3 ppm
6/17/91 1:00 pm	SE Corner of Lot	0.3 ppm
6/17/91 2:00 pm	Test Boring-20	0.3 ppm
6/17/91 2:40 pm	Test Boring-18	0.3 ppm
6/18/91 8:30 am	200' NE of Test Boring-12	0.3 ppm
6/18/91 9:10 am	Test Boring-13	0.3 ppm
6/18/91 1:10pm	150' E of Test Boring-9	0.3 ppm
6/18/91 2:30 pm	250' SW of Test Boring-5	0.3 ppm
6/19/91 8:30 pm	Test Boring-2	0.3 ppm

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Figure 5

TOPS Markets, Inc.

Niagara Falls Boulevard & 70th Street

Remedial Action Sampling and Analysis Data

Test Boring Data

Boring No.	Date	Depth	Sample ID	Interval
B-1	6/19/91	6'	B-1-1	0'-2'
			B-1-2	2'-6'
B-2	6/19/91	6'	B-2-1	0'-2.5'
			B-2-2	2.5'-6'
B-3	6/19/91	6'	B-3-1	0'-2'
			B-3-2	2'-6'
B-4	6/18/91	6'	B-4-1	0'-4'
			B-4-2	4'-6'
B-5	6/18/91	8'	B-5-1	0'-4.5'
			B-5-2	4.5'-8'
B-6	6/19/91	6'	B-6-1	0'-2'
			B-6-2	2'-6'
B-7	6/18/91	6'	B-7-1	0'-4'
			B-7-2	4'-6'
B-8	6/18/91	6'	B-8-1	0'-4'
			B-8-2	4'-6'
B-9	6/18/91	6'	B-9-1	0'-4'
			B-9-2	4'-6'
B-10	6/18/91	8'	B-10-1	0'-4.5'
			B-10-2	4.5'-8'
B-11	6/17/91	4'	B-11-1	0'-2'
			B-11-2	2'-4'

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Boring No.	Date	Depth	Sample ID	Interval
B-12	6/18/91	6'	B-12-1	0'-2'
			B-12-2	2'-6'
B-13	6/18/91	6'	B-13-1	0'-4.5'
			B-13-2	4.5'-6'
B-14	6/18/91	8'	B-14-1	0'-5'
			B-14-2	5'-8'
B-15	6/17/91	8'	B-15-1	0'-4'
			B-15-2	4'-8'
B-16	6/17/91	10'	B-16-1	0'-7'
			B-16-2	7'-10'
B-17	6/17/91	6'	B-17-1	0'-2'
			B-17-2	2'-6'
B-18	6/17/91	6'	B-18-1	0'-2'
			B-18-2	2'-6'
B-19	6/17/91	8'	B-19-1	0'-4'
			B-19-2	4'-8'
B-20	6/17/91	6'	B-20-1	0'-3'
			B-20-2	3'-6'

Sample Analysis

Analysis of samples taken from intervals identified as non-indigenous "fill" material consisted of testing for the presence of constituents evaluated by the following Superfund Target Compound List (TCL) Test procedures;

Test Procedure	Method
TCL Volatiles	SW846; 8240
TCL Semi-Volatiles	SW846; 8270
TCL Pesticides/PCB's	SW846; 8080
TAL Metals	SW846; 7000
Total Cyanide	SW846; 9012

The underlying, indigenous soil samples selected for analysis, along with a trip blank, were subjected to the same testing procedures as listed above.

A short report narrative prepared by Advanced Environmental Services, Inc. which summarizes certain aspects of the analytical work and clarifies data validation issues is presented as Exhibit 9.

The New York State Department of Environmental Conservation (NYSDEC) has specified that all analytical data be reported according to the requirements contained within the NYSDEC Analytical Services Protocol (ASP), Volume 1, Section B. Adherence to these reporting protocols has generated analytical data which has been subjected to a high level of internal Quality Assurance/Quality Control (QA/QC).

Independent, third-party validation of the accuracy of all analytical data generated by the project has also been conducted by Mr. Stephen S. Odojewski, President, Waste Resource Associates,

Inc. The qualifications of Mr. Odojewski in serving as data validator on the project are presented as Exhibit 3. Data validation sheets are included as Exhibit 10 of this report.

Final Analytical Data

TAL Metals

Twenty (20) "fill" samples were analyzed for twenty-three (23) inorganic analytes using SW-846, Method 7000: Atomic Absorption Spectroscopy. Indigenous "soil" samples were analyzed for the presence of mercury only using this test method. The Inorganics Analysis Data Sheets are included as Exhibit 4 of this report. (Note: The results of the analysis for total cyanide SW846, Method 9012 are also included on the Inorganic Data Sheets).

The concentration levels of inorganic constituents detected in "fill" samples by this testing method were compared to common range values of natural soils for each analyte (see Figure 6, Trace Chemical Element Content of Natural Soils). The results of this comparison show that only eight (8) constituents were detected above the common range for natural soils.

Element	Common Range PPM	Sites Exceeding Common Range	Average Concentration PPM
Cadmium	0.01 - 0.7	7	3.13
Chromium	1 - 1000	1	7,612
Copper	2 - 100	4	287.5
Lead	2 - 200	5	436.8
Magnesium	600 - 6000	19	21,489
Manganese	20 - 3000	1	3210
Mercury	0.01 - 0.3	18	52.6
Zinc	10 - 300	5	897

Ranges should have been reported here.

Figure 6

TRACE CHEMICAL ELEMENT CONTENT OF NATURAL SOILS

Element	Common Range (ppm)	Average (ppm)	Element	Common Range (ppm)	Average (ppm)
Aluminum	10,000 - 300,000	71,000	Lithium	5 - 200	20
Antimony	2 - 10		Magnesium	600 - 6,000	5,000
Arsenic	1 - 50	5	Manganese	20 - 3,000	600
Barium	100 - 3,000	430	Mercury	0.01 - 0.3	.03
Beryllium	0.1 - 50	6	Molybdenum	0.2 - 5	2
Boron	2 - 100	10	Nickel	3 - 500	40
Bromine	1 - 10	5	Radium	8×10^{-5}	
Cadmium	0.01 - 0.7	.06	Rubidium	50 - 500	10
Cesium	0.3 - 25	6	Selenium	0.1 - 2	.3
Chlorine	20 - 900	100	Silver	0.01 - 5	.05
Chromium	1 - 1,000	100	Strontium	50 - 1,000	200
Cobalt	1 - 40	8	Tin	2 - 200	10
Copper	2 - 100	30	Tungsten		1
Fluorine	10 - 4,000	200	Uranium	0.9 - 9	1
Gallium	0.4 - 300	30	Vanadium	20 - 500	100
Gold		<1	Yttrium	25 - 250	50
Iodine	0.1 - 40	5	Zinc	10 - 300	50
Lanthanum	1 - 5,000	30	Zirconium	60 - 2,000	300
Lead	2 - 200	10			

REF: USEPA Office of Solid Waste and Emergency Response. HAZARDOUS WASTE LAND TREATMENT SW 874 (April 1983) Page 273, Table 6.46

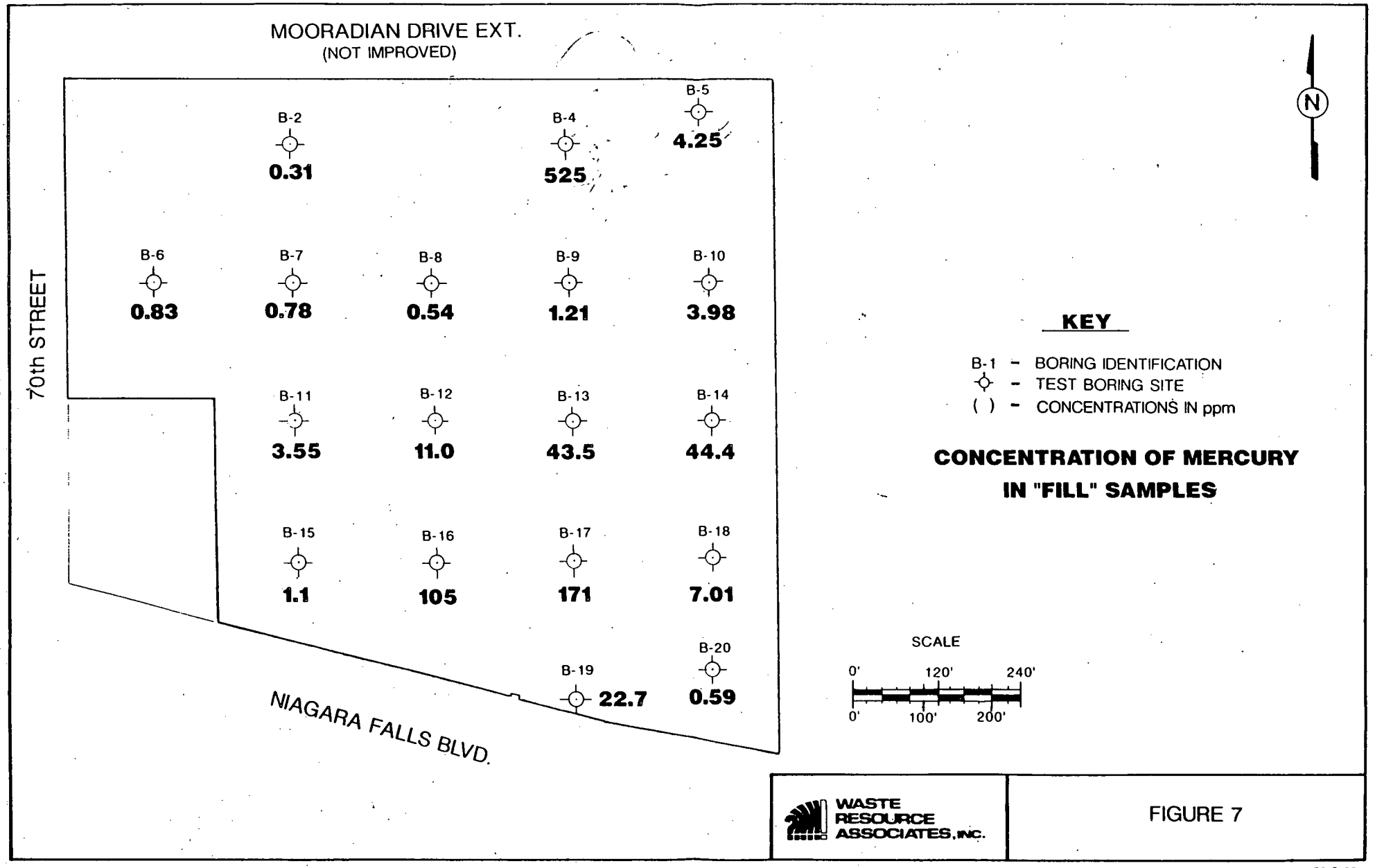
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Review of this data leads to the conclusion that only magnesium and mercury are prevalent as contaminants throughout the site where as other identified inorganic constituents have been detected at only a few, isolated locations.

A composite soil sample consisting of "fill" material from all twenty (20) test sites was analyzed by the Toxicity Characteristic Leaching Procedure (TCLP) for eight (8) metallic constituents (see Exhibit 5 - TCLP Analysis). The results of this analysis did not identify any of the analytes as being present at a level that was above the maximum allowable concentration for this testing procedure. Therefore, migration of any of these eight metallic constituents (which includes mercury) is highly unlikely as a result of any leaching caused by infiltration of rainfall or snowmelt waters on the site.

Elevated levels of magnesium which were found may be attributable in large part to the nature of the local bedrock. Much of the Niagara Falls area is underlain by the Lockport Formation; a massive, highly dolomitic limestone. Dolomite ($CaMg(CO_3)_2$) is composed of 22% magnesium oxide and is a potential ore source for metallic Mg. Thus, any locally excavated bedrock, soils, or dolomite gravel that was deposited on-site could be a major contributing source of magnesium.

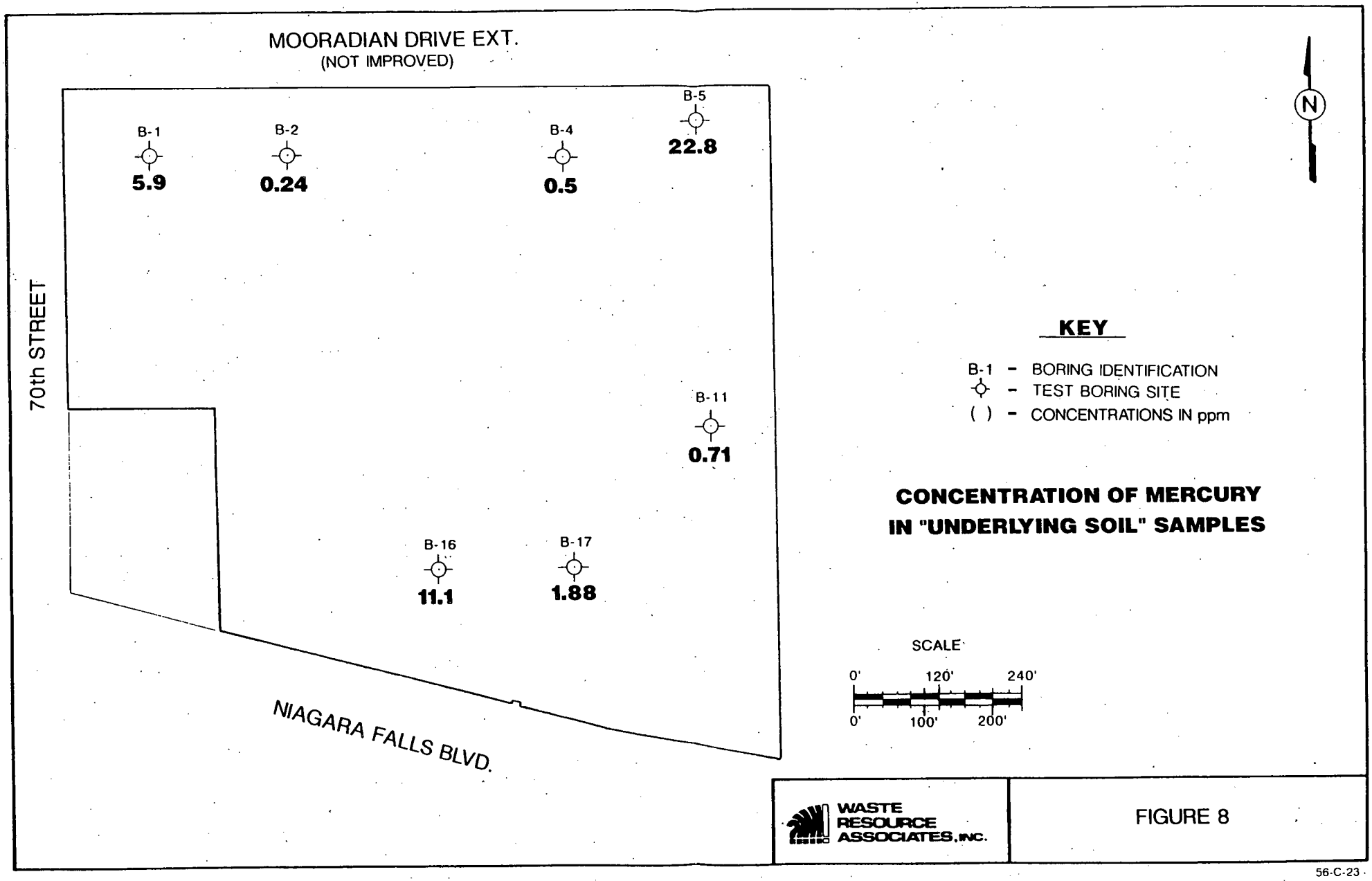
Detectable levels of mercury have been identified in "fill" samples at eighteen (18) test borings across the site (see Figure 7 - Concentration of Mercury in "Fill" Samples). Analysis of indigenous "soil" samples has detected levels of Mercury at only seven (7) test boring sites (see Figure 8 - Concentration of Mercury in "Soil" Samples). At all but two (2) sites, the levels of mercury in the indigenous "soil" samples are significally reduced or not present when compared to concentrations present in the "fill" samples. The TCLP analysis of "fill" samples has shown that the mercury detected on-site is in an insoluble form and would not be likely to cause any groundwater contamination as a consequence of any leaching which took place.



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FIGURE 7

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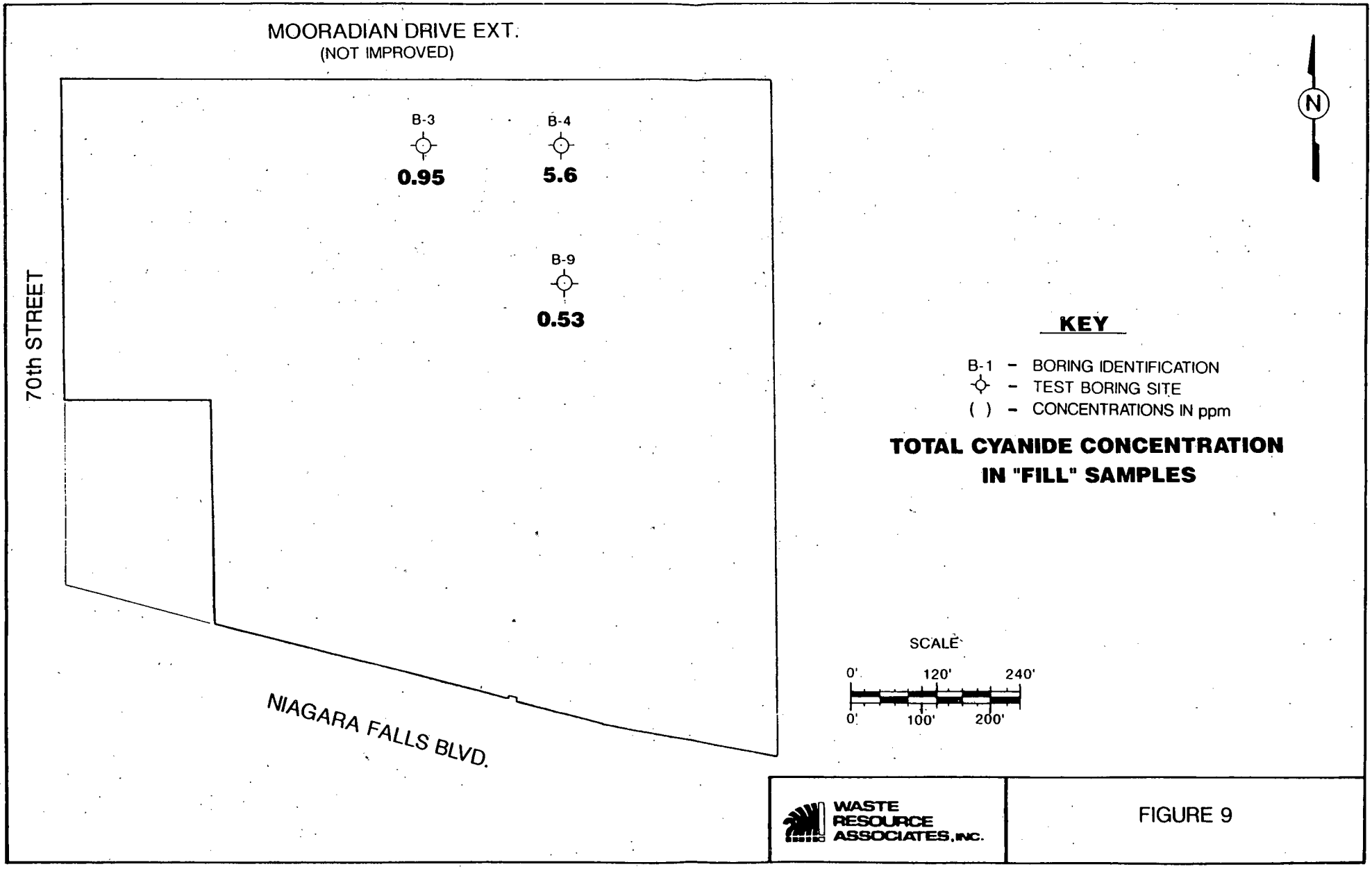
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FIGURE 8

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Total Cyanide

Detectable levels of total cyanide have been identified in "fill" samples at three (3) test boring locations (see Figure 9, Total Cyanide Concentration in "Fill" Samples). Concentration levels ranged from 0.53 ppm to 5.6 ppm total cyanide. Analysis of indigenous "soil" samples did not identify detectable concentrations of total cyanide to be present at any test boring location.



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FIGURE 9

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Volatile Organics

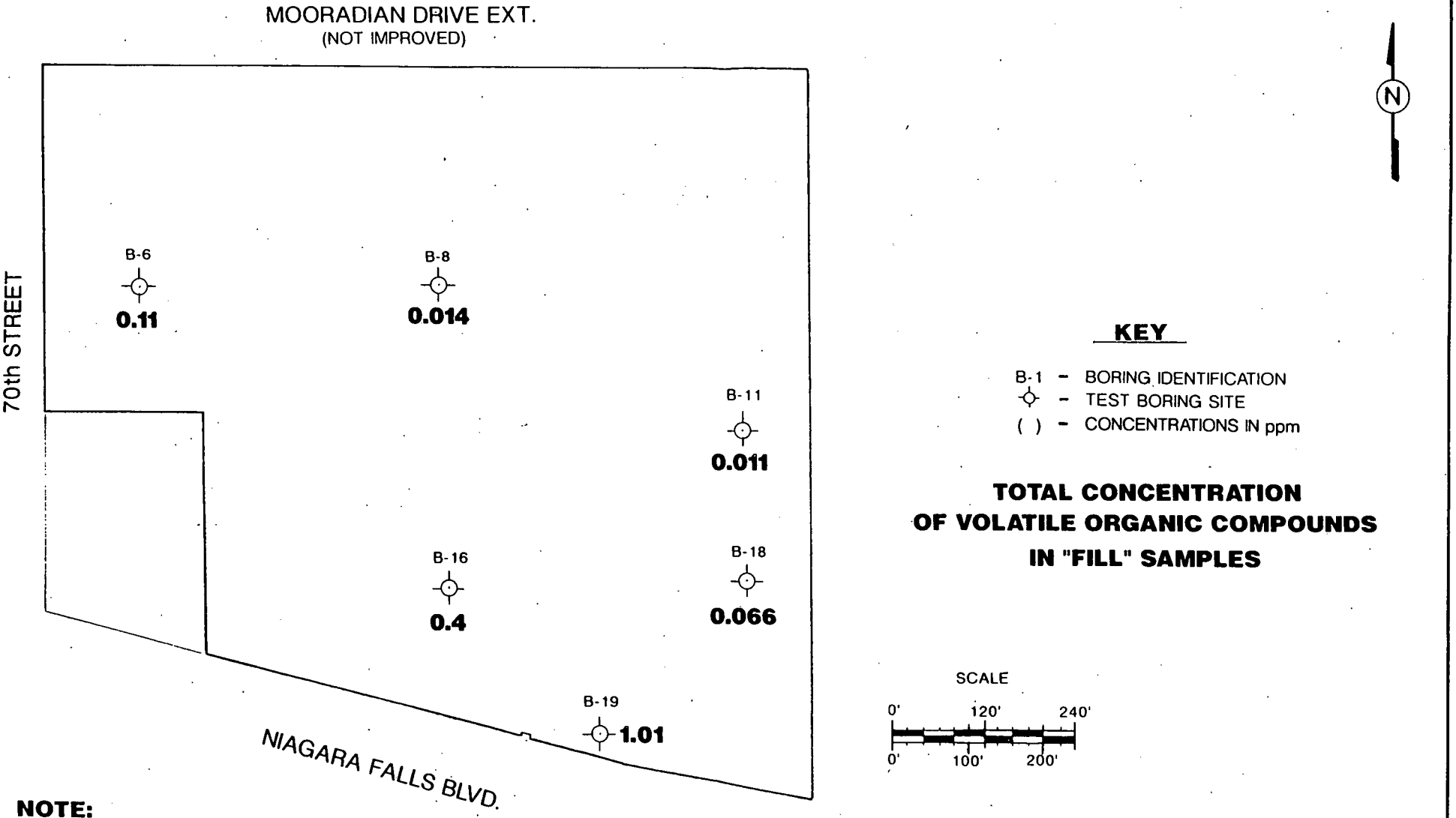
Analysis of "fill" samples has identified quantifiable levels of certain volatile organic constituents at seven (7) test boring locations (see Figure 10 - Total Concentration of Volatile Organic Compounds [VOCs] in "Fill" Samples). The reported concentrations of volatile constituents range from 0.011 ppm to 1.01 ppm.

All indigenous "soil" samples were also subjected to testing for volatile organic compounds. The results of these analyses identified quantifiable levels of VOCs at four (4) test boring locations (see Figure 11 - Total Concentration of Volatile Organic Compounds in Soil Samples). The reported concentrations ranged from 0.007 ppm to 0.036 ppm.

Where identified in "fill" samples, the level of VOCs in the corresponding "soil" sample was either greatly reduced, or not present at all, except for one test boring location where "soil" sample levels were higher than "fill" sample levels.

An HNu photoionization detector was used to scan each split-spoon sample as it was brought to the surface for the presence of any volatile hydrocarbon vapor emissions. The results of the HNu meter scan corroborates the low concentrations of compounds identified by the volatile organics testing. The only HNu meter reading reported above background level (0.3 ppm) was at Boring-6 within the interval of 0'-2' where a concentration of 3-5 ppm was reported. However, analysis of the "fill" sample from B-6 identified a total concentration of volatile constituents of only 0.11 ppm.

The results of the volatile organics analysis has identified two (2) constituents which have been detected in every sample (both "fill" and "soil") as well as in the trip blank and method blank. The level of methylene chloride reported in each sample has been



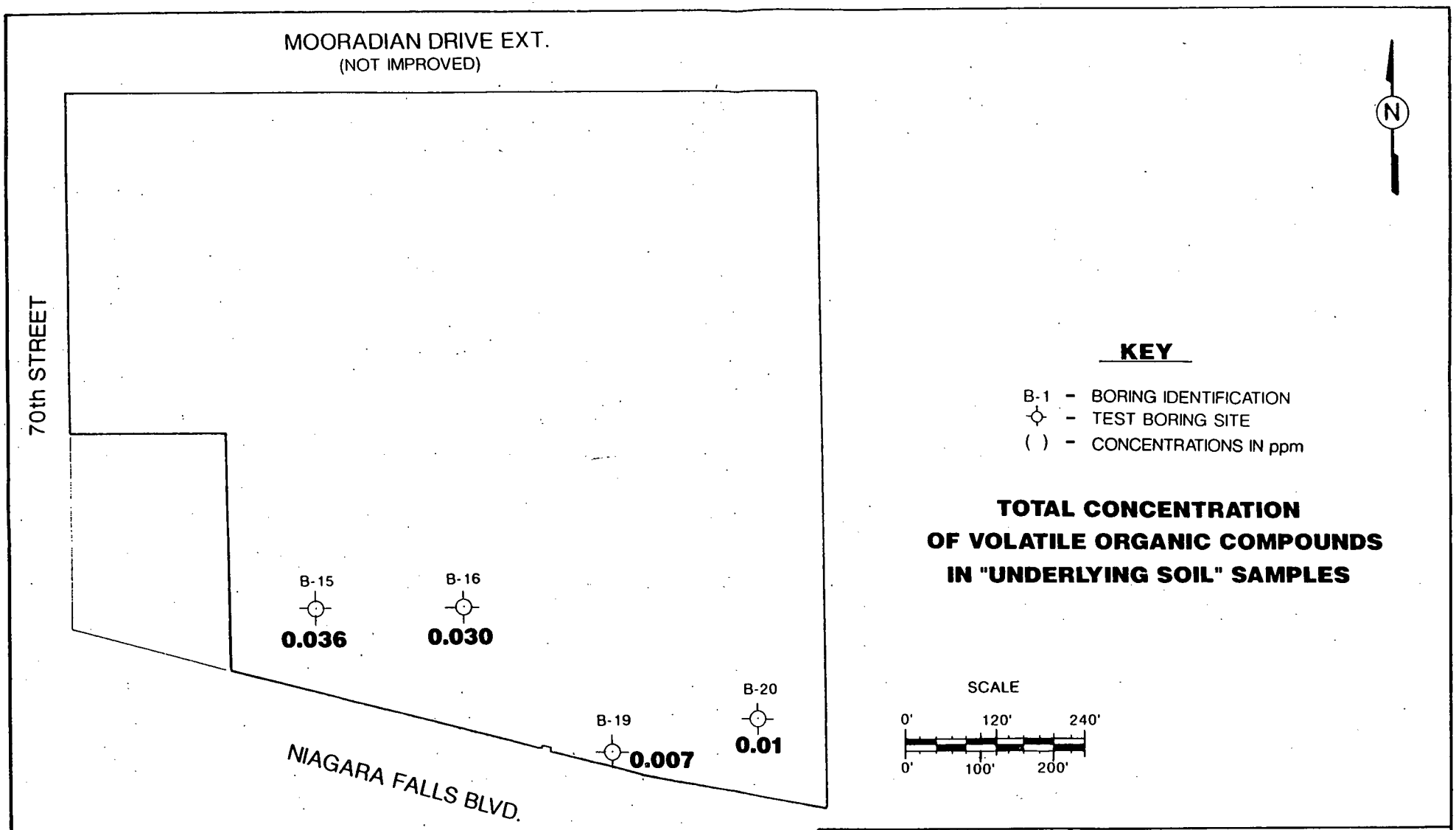
NOTE:

THE LEVELS OF METHYLENE CHLORIDE AND "UNKNOWN" COMPOUND WHICH ARE COMMON TO ALL SAMPLES ARE NOT INCLUDED IN THIS DATA.

WASTE RESOURCE ASSOCIATES, INC.

FIGURE 10

56-C-23



NOTE:

THE LEVELS OF METHYLENE CHLORIDE AND "UNKNOWN" COMPOUND WHICH ARE COMMON TO ALL SAMPLES ARE NOT INCLUDED IN THIS DATA.

WASTE RESOURCE ASSOCIATES, INC.

FIGURE 11

56-C-23

attributed to possible laboratory contamination. An unknown compound (with a retention time of approximately 1.0) has also been detected at low concentration levels in all samples including the trip and method blanks. The presence of this compound is also presumably due to some possible outside source of contamination. Finally, low concentrations of acetone have been detected at several sites in both "fill" and "soil" samples. Acetone is also a common laboratory solvent and it is reasonable to assume that residual amounts of this compound may be present in sample containers and could lead to cross-contamination of sample material from the glass sample jars themselves.

The results of the testing for volatile organic compounds are presented as Exhibit 6 of this report.

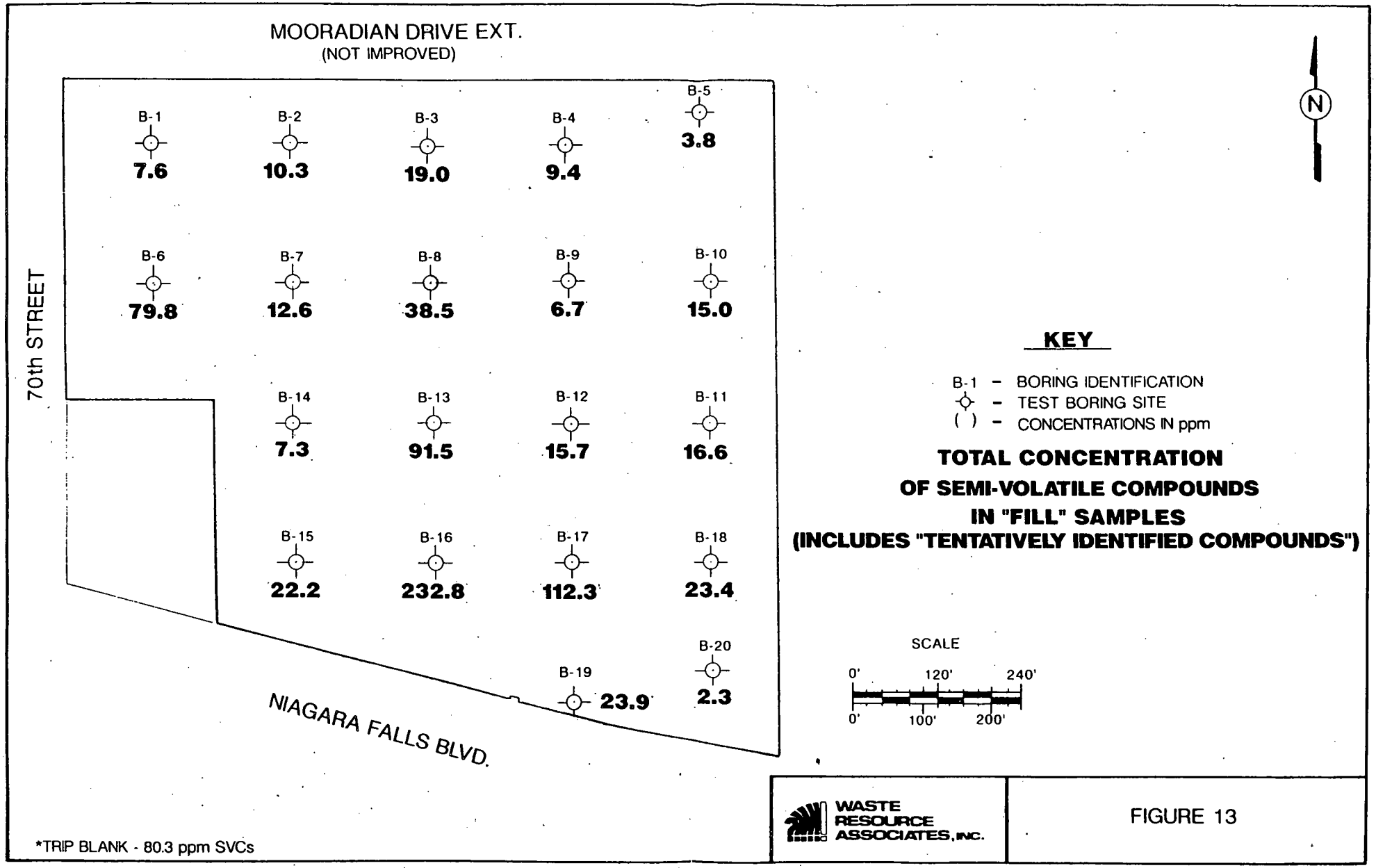
Semivolatile Organics

Analysis of "fill" samples has identified detectable levels of various semivolatile organic constituents (including tentatively identified and unknown compounds) at each of the twenty (20) test boring sites (see Figure 13 - Total Concentration of Semivolatile Compounds in "Fill" Samples). The reported total concentrations of semivolatile compounds range from 2.3 ppm to 232.8 ppm. Analysis of the Trip Blank detected 80.3 ppm total semivolatile compounds. Only four (4) test boring sites had levels in excess of 50 ppm.

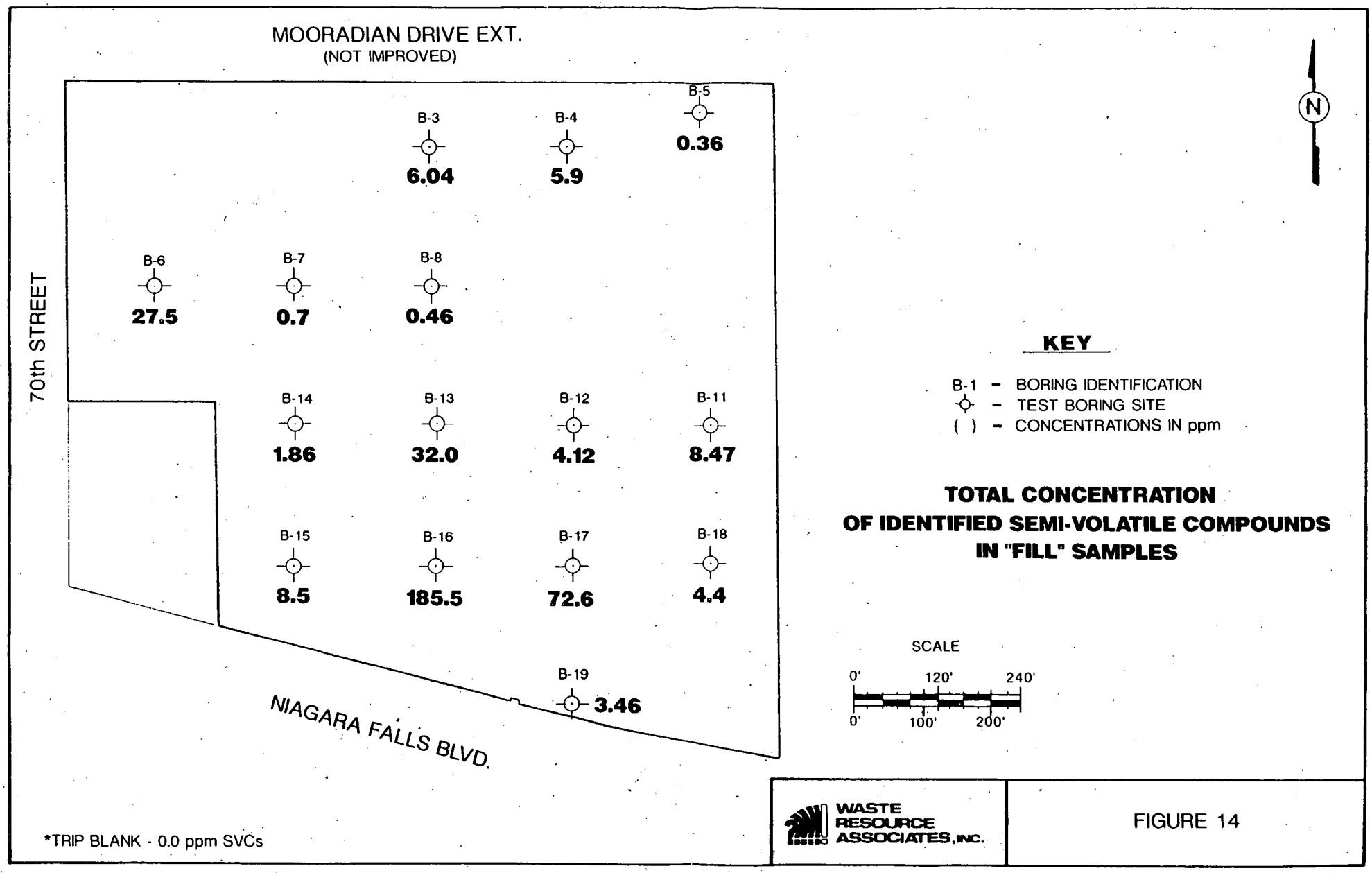
If tentatively identified and unknown semivolatile compounds are excluded as part of the total concentration data, then only fifteen (15) testing sites have detectable levels of semivolatile organic constituents (see Figure 14 - Total Concentration of Identified Semivolatile Compounds in "Fill" Samples). The concentrations reported on Figure 14 range from 0.36 ppm to 185.5 ppm. Only two (2) test boring sites had levels in excess of 50 ppm.

Due to the expiration of sample holding times, analysis of the underlying "soil" samples for semivolatile organic compounds was completed on only fifteen (15) of the twenty (20) samples taken (no data on B-15 through B-19). Of the fifteen (15) samples that were analyzed, semivolatile compounds were identified at six (6) test boring locations (see Figure 15 - Total Concentration of Identified Semivolatile Compounds in "Soil" Samples). The concentrations ranged from 0.52 ppm to 12.8 ppm with only one sample in excess of 2.5 ppm.

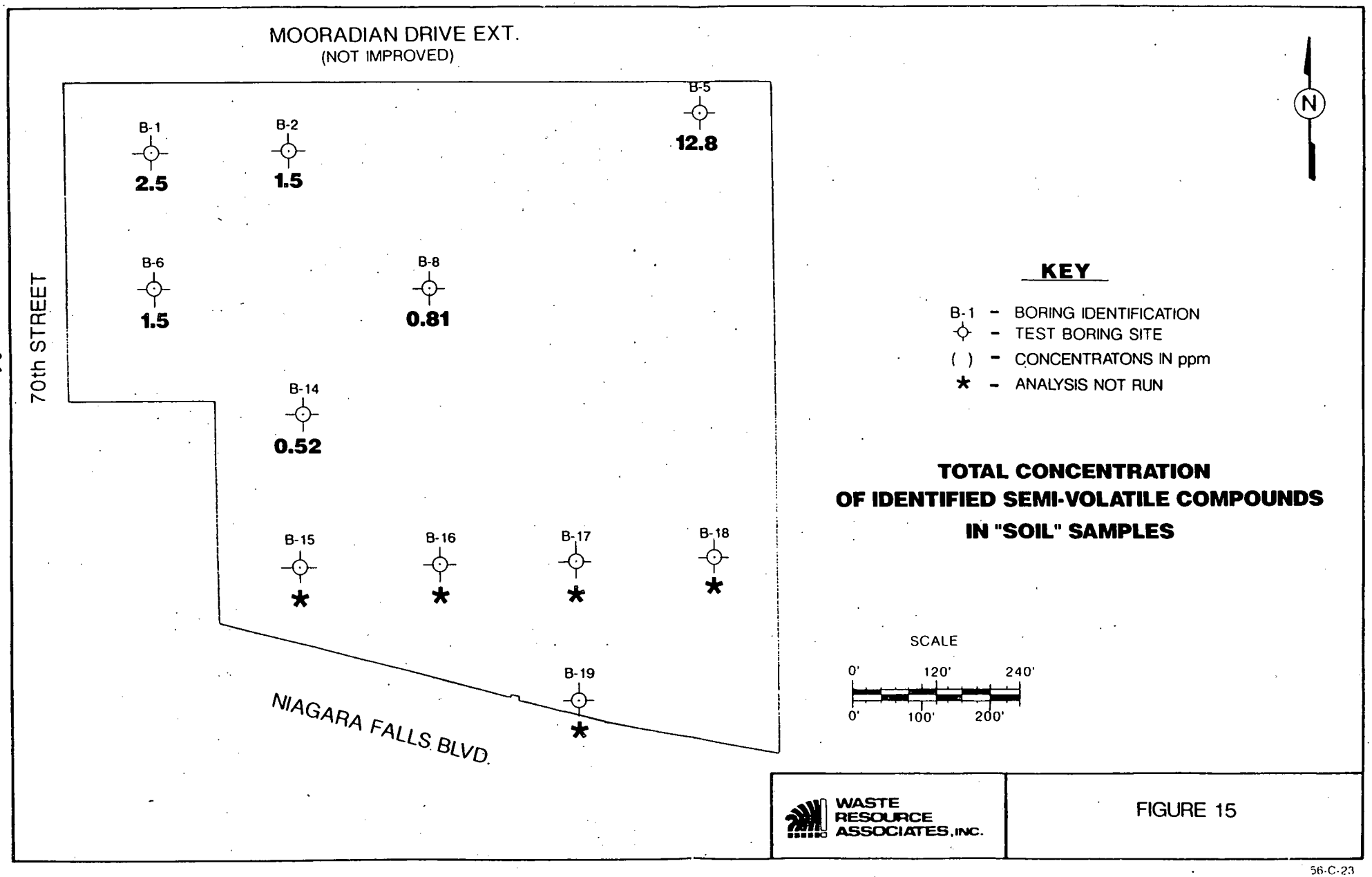
A comparison of the analytical results for the fifteen (15) "soil" samples with the corresponding "fill" samples establishes the following relationships;


MOORADIAN DRIVE EXT.
(NOT IMPROVED)
70th STREET
NIAGARA FALLS BLVD.
B-1 7.6
B-2 10.3
B-3 19.0
B-4 9.4
B-5 3.8
B-6 79.8
B-7 12.6
B-8 38.5
B-9 6.7
B-10 15.0
B-14 7.3
B-13 91.5
B-12 15.7
B-11 16.6
B-15 22.2
B-16 232.8
B-17 112.3
B-18 23.4
B-19 23.9
B-20 2.3
*TRIP BLANK - 80.3 ppm SVCs
KEY
B-1 - BORING IDENTIFICATION
- TEST BORING SITE
( ) - CONCENTRATIONS IN ppm
TOTAL CONCENTRATION
OF SEMI-VOLATILE COMPOUNDS
IN "FILL" SAMPLES
(INCLUDES "TENTATIVELY IDENTIFIED COMPOUNDS")
SCALE
0' 120' 240'
0' 100' 200'
N
WASTE RESOURCE ASSOCIATES, INC.
FIGURE 13

56-C-23


MOORADIAN DRIVE EXT.
(NOT IMPROVED)
70th STREET
NIAGARA FALLS BLVD.
B-3
6.04
B-4
5.9
B-5
0.36
B-6
27.5
B-7
0.7
B-8
0.46
B-14
1.86
B-13
32.0
B-12
4.12
B-11
8.47
B-15
8.5
B-16
185.5
B-17
72.6
B-18
4.4
B-19
3.46
N
KEY
B-1 - BORING IDENTIFICATION
- TEST BORING SITE
( ) - CONCENTRATIONS IN ppm
TOTAL CONCENTRATION
OF IDENTIFIED SEMI-VOLATILE COMPOUNDS
IN "FILL" SAMPLES
SCALE
0'
120'
240'
0'
100'
200'
*TRIP BLANK - 0.0 ppm SVCs
WASTE
RESOURCE
ASSOCIATES, INC.
FIGURE 14

56-C-23


MOORADIAN DRIVE EXT.
(NOT IMPROVED)
70th STREET
NIAGARA FALLS BLVD.
B-1
2.5
B-2
1.5
B-5
12.8
B-6
1.5
B-8
0.81
B-14
0.52
B-15
*
B-16
*
B-17
*
B-18
*
B-19
*
N
KEY
B-1 - BORING IDENTIFICATION
- TEST BORING SITE
( ) - CONCENTRATONS IN ppm
* - ANALYSIS NOT RUN
TOTAL CONCENTRATION
OF IDENTIFIED SEMI-VOLATILE COMPOUNDS
IN "SOIL" SAMPLES
SCALE
0'
120'
240'
0'
100'
200'
WASTE
RESOURCE
ASSOCIATES, INC.
FIGURE 15

56-C-23

1) Where previously identified in "fill" samples, the levels of semivolatile compounds in "soil" samples were either not present or greatly reduced at eight (8) test boring locations (B-3, B-4, B-6, B-7, B-11, B-12, B-13 and B-14).

2) Two (2) "soil" samples (B-5, B-8) were identified as having concentrations of semivolatile compounds slightly above those of the corresponding "fill" sample.

3) Low concentrations of semivolatile compounds were detected in two (2) "soil" sample (B-1, B-2) where none were identified in the corresponding "fill" samples.

4) The predominant constituents identified by this testing protocol are polycyclic aromatic hydrocarbon (PAHs) compounds. The presence of these compounds is most likely due to the considerable amounts of asphalt pavement material identified in the "fill" interval.

5) The total concentrations of semivolatile compounds present in both "fill" and "soil" samples are relatively low.

The data sheets which summarize the results of semivolatile analysis are presented as Exhibit 7 of this report.

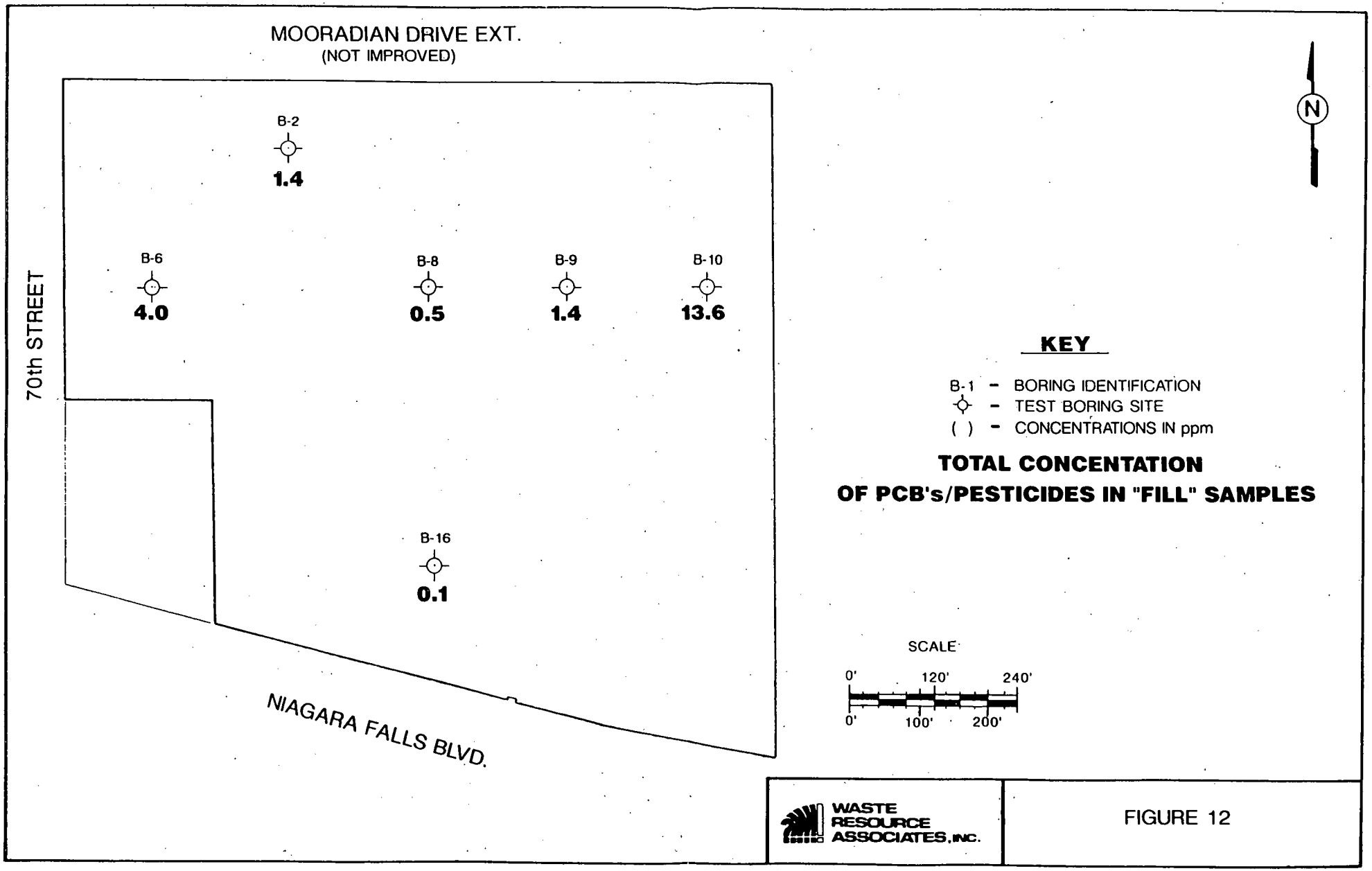
PCBs/Pesticides

Analytical testing of "fill" samples for PCBs and pesticides has identified quantifiable levels of these compounds to be present at six (6) test boring locations (see Figure 12 - Total Concentration of PCB's/Pesticides in "fill" samples).

Pesticides were detected at six (6) locations at total concentrations ranging from 0.1 ppm to 12.9 ppm. The primary pesticide constituents identified were Alpha, Beta and Delta BHC compounds.

A PCB compound, Aroclor 1260, was also detected at Boring-10 at a concentration of 0.76 ppm. No other PCB compounds were identified by this testing procedure.

The data sheets which summarize the results of analytical testing for PCBs/Pesticides are included as Exhibit 11 of this report.


MOORADIAN DRIVE EXT.
(NOT IMPROVED)
70th STREET
NIAGARA FALLS BLVD.
B-2
1.4
B-6
4.0
B-8
0.5
B-9
1.4
B-10
13.6
B-16
0.1
N
KEY
B-1 - BORING IDENTIFICATION
- TEST BORING SITE
( ) - CONCENTRATIONS IN ppm
TOTAL CONCENTATION
OF PCB's/PESTICIDES IN "FILL" SAMPLES
SCALE
0'
120'
240'
0'
100'
200'
WASTE RESOURCE ASSOCIATES, INC.
FIGURE 12

56-C-23

Historical Data

The following section summarizes the findings and results of analytical testing conducted during previous site investigations which were performed on the subject property or in close proximity to it. This information is presented in support of the data generated by the current Remedial Action Site Investigation and to provide a more comprehensive and complete site characterization.

Analytical Methods

Total Organic Halides (TOX)/Extractable Organic Halides (EOX)

The analytical testing protocol for the determination of Total Organic Halides (TOX) and/or Extractable Organic Halides (EOX) is very similar in principle to the analytical methodology employed in the determination of Total Organic Carbon (TOC).

In the determination of Total Organic Carbon (TOC), an aqueous sample (or alternatively an aqueous extract of a solids sample) is injected into an analytical testing device (or furnace) where the soluble hydrocarbons present in the aqueous matrix are combusted to form carbon dioxide and water. The amount of carbon dioxide produced is measured by instrumentation within the analytical testing device and converted to a concentration reported as a certain number of parts per million of organic carbon. The test procedure cannot differentiate between specific hydrocarbons but rather provides a sum total of all carbon atoms contained by all of the hydrocarbons present in the aqueous sample.

The Total Organic Halides (TOX) determination is similar to the Total Organic Carbon (TOC) in that it does not differentiate between different halogenated hydrocarbons which may be present in an aqueous sample but presents a cumulative concentration of all halide atoms (i.e. chlorine, bromine, iodine) contained by all of the hydrocarbons present in the aqueous sample as opposed to the carbon atoms present. The aqueous sample (or an aqueous extract of a solids sample in the case of an Extractable Organic Halide (EOX) determination) is passed through a column of activated carbon which effectively adsorbs all organics present. The activated carbon is then washed to remove any inorganic chlorides and then pyrolyzed to convert organo-halides to titratable species. The halide portion of any hydrocarbon present is titrated using a microcoulometric detector and reported as a concentration of the total amount of

organic halide (or extractable organic halide in the case of a solids sample) present in the sample.

Just as Total Organic Carbon (TOC) is a valuable screening tool in identifying whether or not any substantial hydrocarbon contamination is present in a sample, Total Organic Halide (TOX) and Extractable Organic Halide (EOX) can likewise determine whether any substantial halogenated organic contamination is present in a sample. The TOX or EOX test procedure will detect the presence of a wide range of different halogenated organics which would include any chlorinated solvents, PCBs and chlorinated pesticides.

TOX can be viewed as being a more precise and complete analytical screening tool for halogenated substances than standard gas chromatography (GC) or gas chromatography/mass spectroscopy (GC/MS) since GC and GC/MS may not be able to detect very low levels of 5-6 different halogenated organics which may be present in a sample but the cumulative amount of halide contained in the 5-6 different halogenated organics will be detected by the TOX/EOX determination.

NYSDEC Phase I - Investigation - January, 1988
64th Street North Inactive Hazardous Waste Disposal Site

A small portion of the subject property has been included by NYSDEC in the 64th Street North Inactive Hazardous Waste Disposal Site. The Phase I Investigation (January, 1988) prepared by Engineering-Science for NYSDEC reported that the site was used as a municipal solid waste landfill during the late 1930's and 1950's and contains domestic and commercial wastes and possibly some waste from the demolition of a local, civilian housing project. Disposal of industrial wastes at this site is not suspected.

Several subsurface investigations have been performed within or near the boundaries of the 64th Street North site. The results of these studies are summarized below.

United States Geological Survey - 1982

The United States Geological Survey (USGS) analyzed soil samples taken from the site for various organic priority and non-priority pollutants, hydrocarbons and iron. Only iron was identified at concentrations above background soil values. However, the levels reported were not significantly above what would be considered normal background concentrations (USEPA, 1985).

NUS Corporation - 1985

Numerous samples taken from various depths across the site were analyzed for priority pollutant organics and inorganics. Analysis of inorganic constituents identified iron and mercury above local soil background levels. Analytical testing for organic constituents detected several polycyclic aromatic hydrocarbon (PAHs) compounds at concentrations above 10 ppm. It is not uncommon to find detectable level of PAHs in urban settings where

stormwater run-off from asphalt paved areas can impart contamination to soils contacted by these stormwaters.

Woodward-Clyde Consultants - 1986

Soil samples were taken along the northern boundary of the site (approximately 600 feet north of the Tops parcel) in the Niagara Mohawk right-of-way prior to the commencement of a pipeline installation project by Texas Brine Corporation. The samples were analyzed for priority pollutants, cyanide and phenol. EPTOX extracts from these samples were also analyzed for isomers of BHC and for EPTOX metals (NYSDOH, Woodward-Clyde Consultants, 1986).

The results of inorganic analyses did not detect any metallic constituents above soil background levels. Organic analyses identified only three (3) PAH compounds to be present at concentrations above 10 ppm (benzo(a)pyrene: 13 ppm, benzo(a)fluoranthene: 14 ppm, fluoranthene: 13 ppm).

According to the NYSDOH, there is no threat to the environment or neighboring populations as a result of the contaminants identified by this investigation (Woodward-Clyde 1986). Furthermore, the excess soil in the pipeline right-of-way across the 64th Street North site was considered to be free of contamination for the purposes of disposal and could be removed to a sanitary landfill (Woodward-Clyde, 1986).

USGS Groundwater Analysis - 1985

USGS analyzed groundwater samples obtained from a monitoring well located in a down gradient position relative to the 64th Street North site. The well was located at the northeast corner of the intersection of 66th Street and Niagara Falls Boulevard. The results of the analytical testing are presented as follows:

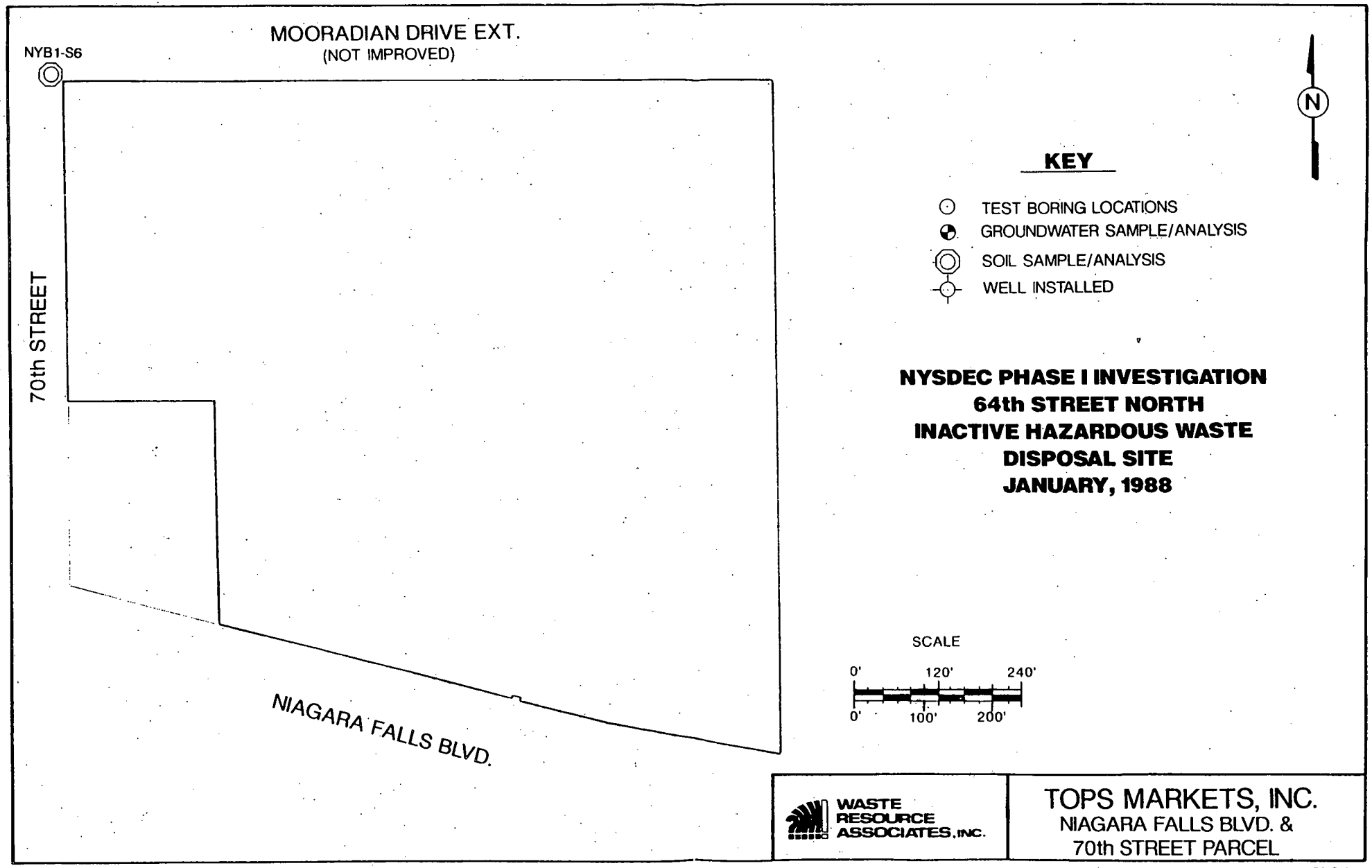
Constituents Identified	Concentration ppb	NYS Class GA Groundwater Standard ppb
Cadmium	13	10
Lead	230	25
Methylene Chloride	140	50
Toluene	150	50

Upon examination of this data, USGS concluded that the compounds identified by the groundwater analysis were not present at concentrations that significantly exceeded the NYS Class GA standards (USGS/EPA - 1985).

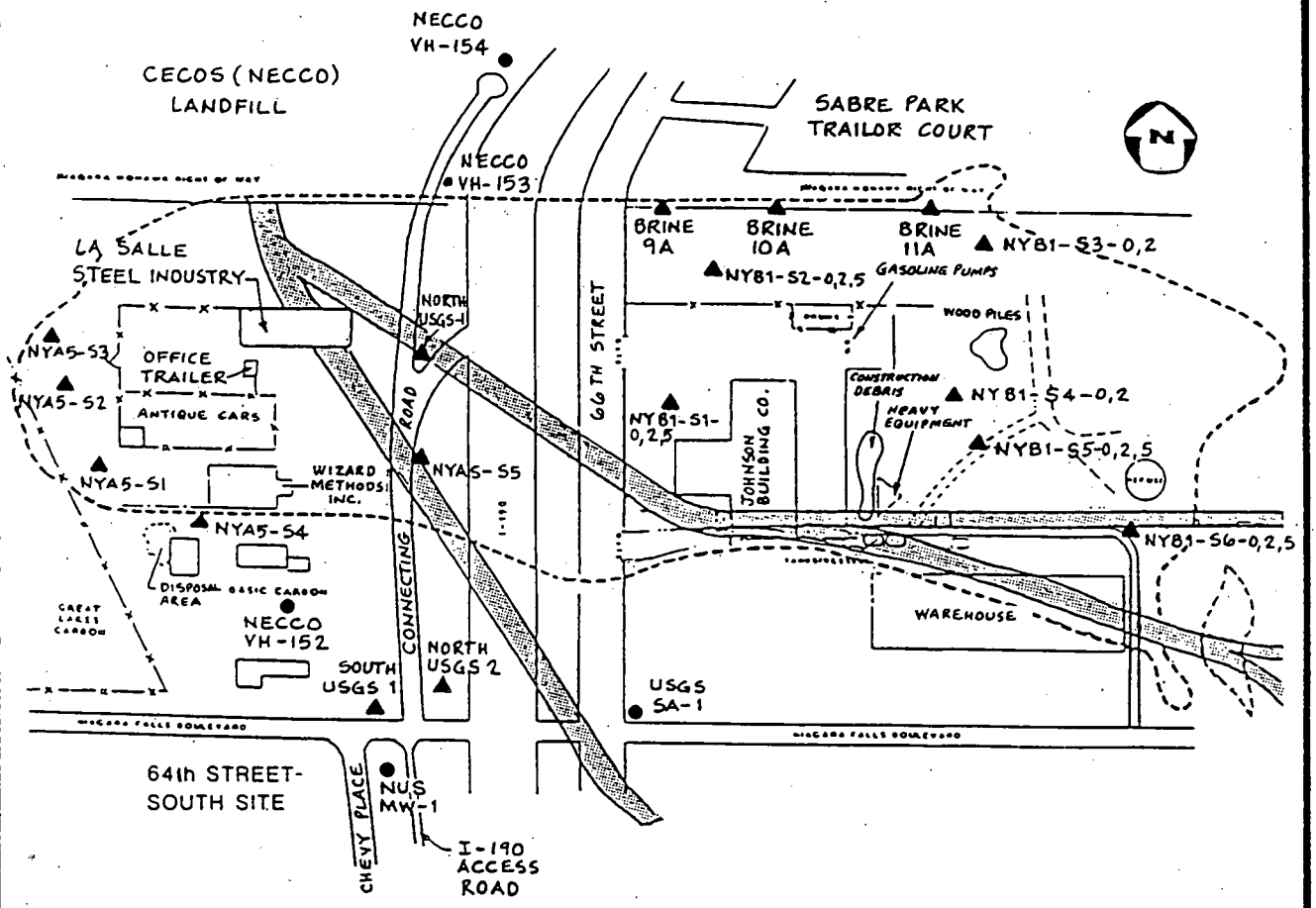
HNU Meter Survey - 1986

An HNu meter survey conducted upwind and downwind of the site did not detect any significant concentrations of volatile organics above the background level of 1 ppm (Engineering-Science/Dames and Moore - 1986).

56-0113


MOORADIAN DRIVE EXT.
(NOT IMPROVED)
NYB1-S6
70th STREET
NIAGARA FALLS BLVD.
N
KEY
TEST BORING LOCATIONS
GROUNDWATER SAMPLE/ANALYSIS
SOIL SAMPLE/ANALYSIS
WELL INSTALLED
NYSDEC PHASE I INVESTIGATION
64th STREET NORTH
INACTIVE HAZARDOUS WASTE
DISPOSAL SITE
JANUARY, 1988
SCALE
0'
120'
240'
0'
100'
200'
WASTE
RESOURCE
ASSOCIATES, INC.
TOPS MARKETS, INC.
NIAGARA FALLS BLVD. &
70th STREET PARCEL

56-C-23



64TH STREET – NORTH SITE

NOT TO SCALE

LEGEND:

- —x—x— FENCE
- ---- APPROXIMATE AREA OF SUSPECTED DISPOSAL
- ▒ ORIGINAL DRAINAGE SWALE
- ▲ SOIL SAMPLE
- 0 SURFACE SAMPLES
- 2 SAMPLE TAKEN AT 2 ft. DEPTH
- 5 SAMPLES TAKEN AT DEPTHS GREATER THAN 2 ft.
- ● GROUND WATER SAMPLES

NOTE:

SAMPLES LABELLED BRINE WERE OBTAINED DURING CONSTRUCTION OF THE BRINE PIPELINE.
SAMPLES LABELLED NY WERE TAKEN BY NUS CORP.

REFERENCES: BASE FROM NUS 1986 STUDY. REVISED BASED ON INFORMATION OBTAINED FROM NCHD, 1988 AND ES AND D & M SITE VISIT, 1985.

ENGINEERING-SCIENCE, INC.
IN ASSOCIATION WITH
DAMES & MOORE

NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION
PHASE I REPORT

PLOT PLAN
64th STREET-NORTH

FIGURE IV-1

TABLE IV-1
ANALYTICAL RESULTS FROM USGS AND TEXAS BRINE SOIL SAMPLING

Constituent	USGS, ppb			Texas Brine, ppb		
	1-North (3.3')	2-North (2.7')	1-South	9A	10A	11A
Iron	4,200,000	2,600,000	33,000	-	-	-
Benzo(a)pyrene	-	-	-	-	13,000	1,500
Benzo(b)fluoranthene	-	-	-	-	14,000	5,300
Fluoranthene	-	-	-	13,000	4,500	3,000
Phenanthrene	-	-	-	10,000	4,200	1,800

Source: NYSDOH, W. Gilday and
Woodward-Clyde Consultants, October, 1986

TABLE IV-2

ANALYTICAL RESULTS FROM NUS SOIL SAMPLING[a]
(Soil Concentration in ppb
Unless Otherwise Noted)

Constituent	NYA5-S1	NYA5-S2	NYA5-S3	NYA5-S4	NYA5-S5	NYBI-S1-0	NYBI-S1-2
Benzo(a)Anthracene	2,400	610	-	27,000	740	-	2,000
Benzo(b)Fluoranthene	3,600	620	-	45,000	920	-	2,800
Chrysene	2,500	630	-	30,000	820	-	2,100
Fluoranthene	3,000	1,100	-	52,000	1,500	-	2,800
Indeno(1,2,3-cd)Pyrene	16,000	-	-	-	440	-	-
H-Nitrosodiphenylamine	-	-	-	-	-	-	-
Phenanthrene	1,900	880	-	46,000	930	-	1,700
Pyrene	2,500	800	-	46,000	1,100	-	2,600
Iron, ppm	98,000	15,300	25,100	22,000	14,100	20,600	17,500
Mercury, ppm	0.12	2.1	0.91	8.3	0.6	0.25	-

[a]Only organic chemicals with concentrations above 10,000 ppb and inorganic chemicals above soil background levels are presented.

SOURCE: NUS Corporation, 1986 Report

TABLE IV-2, Continued

ANALYTICAL RESULTS FROM NUS SOIL SAMPLING[a]
(Soil Concentration in ppb
Unless Otherwise Noted)

Constituent	NYBI-S1-5	NYBI-S2-0	NYBI-S2-2	NYBI-S2-5	NYBI-S3-0	NYBI-S3-2	NYBI-S4-0
Benzo(a)Anthracene	-	11,000	7,700	9,400	-	-	-
Benzo(b)Fluoranthene	-	8,900	6,100	5,400	-	-	-
Chrysene	830	12,000	7,400	9,400	-	910	-
Fluoranthene	1,100	21,000	14,000	16,000	1,200	1,700	-
Indeno(1,2,3-cd)Pyrene	-	-	3,200	3,700	-	-	-
H-Nitrosodiphenylamine	-	-	-	-	-	-	-
Phenanthrene	880	11,000	9,200	15,000	-	840	-
Pyrene	950	19,000	12,000	26,000	1,800	1,700	-
Iron, ppm	21,700	12,800	14,900	29,500	18,000	17,300	24,000
Mercury, ppm	-	1.4	1.2	0.31	0.39	1.2	5.0

[a]Only organic chemicals with concentrations above 10,000 ppb and inorganic chemicals above soil background levels are presented.

SOURCE: NUS Corporation, 1986 Report

TABLE IV-2, Continued

ANALYTICAL RESULTS FROM NUS SOIL SAMPLING[a]
(Soil Concentration in ppb
Unless Otherwise Noted)

Constituent	NYBI-S4-2	NYBI-S5-0	NYBI-S5-2	NYBI-S5-5	NYBI-S6-0	NYBI-S6-2	NYBI-S6-5
Benzo(a)Anthracene	-	-	1,400	-	-	-	-
Benzo(b)Fluoranthene	-	-	1,300	-	-	-	-
Chrysene	-	-	1,500	-	-	-	-
Fluoranthene	-	-	4,200	1,100	1,600	1,000	-
Indeno(1,2,3-cd)Pyrene		-	-	-	-	-	-
H-Nitrosodiphenylamine	200,000	-	-	-	-	-	-
Phenanthrene	-	-	4,400	1,300	1,200	870	-
Pyrene	-	-	4,300	1,200	1,400	1,400	-
Iron, ppm	21,500	19,800	19,000	20,600	27,300	30,200	21,800
Mercury, ppm	-	-	-	0.5	-	2.3	1.3

[a]Only organic chemicals with concentrations above 10,000 ppb and inorganic chemicals above soil background levels are presented.

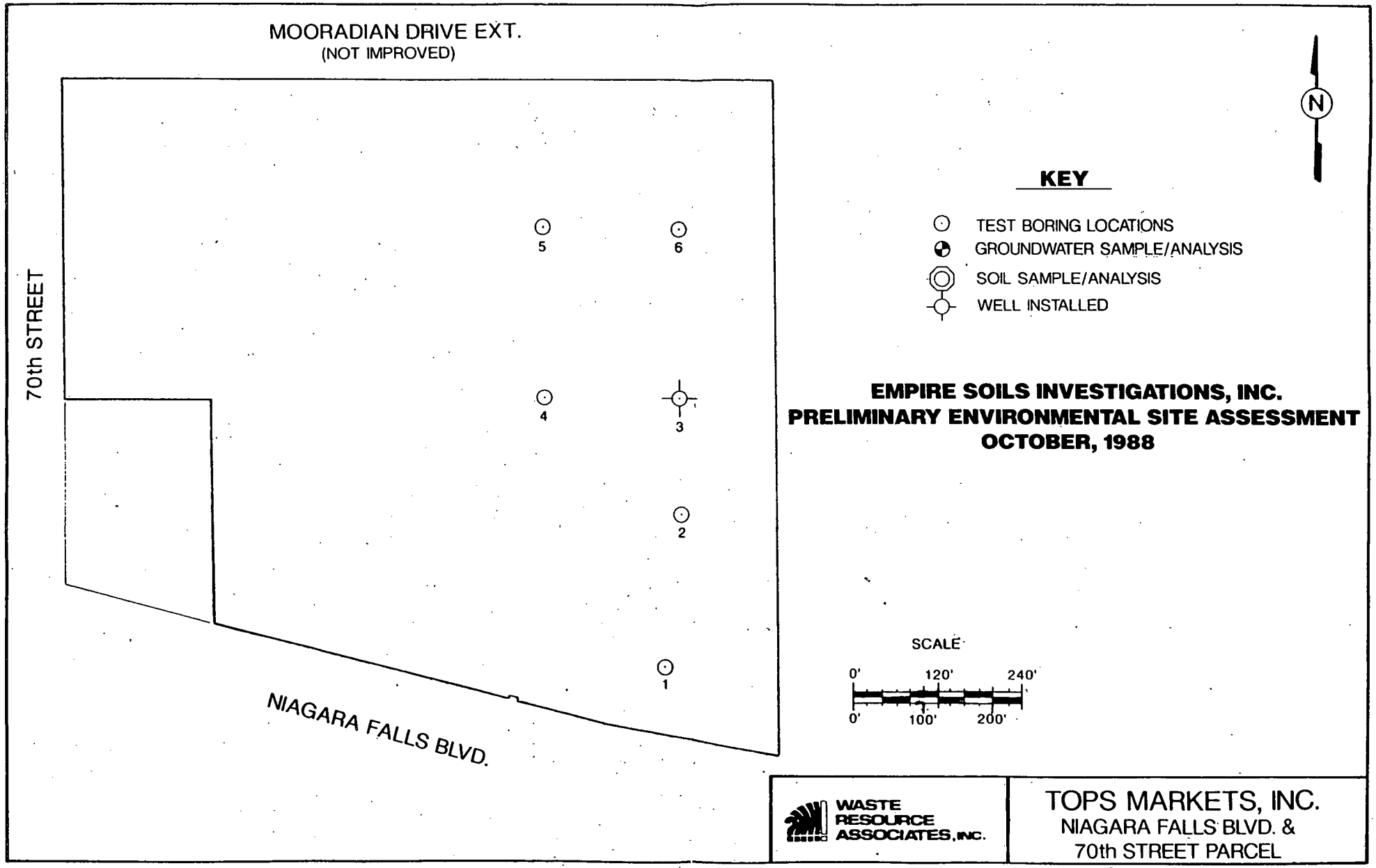
SOURCE: NUS Corporation, 1986 Report

Empire Soils Investigations, Inc. - Preliminary Environmental Site Assessment 10/88

The focus of this investigation was the eastern portion of the Tops parcel (approximately 10.5 acres of property). The site assessment was conducted for Peter J. Schmitt Company, Inc. who was considering the purchase of this portion of the parcel in 1988.

As part of this study, a total of six (6) environmental probe holes (P-1 through P-6) were drilled with a groundwater monitoring well installed at P-3. Soil and groundwater samples were not subjected to analytical testing as part of this investigation. The soil boring logs for the individual probe holes did not report encountering any material of an unusual nature and typically describe the "fill" interval (0' - 7') as predominately construction/demolition debris. An HNu meter survey was conducted in conjunction with drilling and sampling activity and did not detect any levels of volatile organic vapors that exceeded the ambient background level (0.0 - 0.3 ppm) established for the site (ESI - 1988).

56-0113


MOORADIAN DRIVE EXT.
(NOT IMPROVED)
70th STREET
NIAGARA FALLS BLVD.
5
6
4
3
2
1
N
KEY
TEST BORING LOCATIONS
GROUNDWATER SAMPLE/ANALYSIS
SOIL SAMPLE/ANALYSIS
WELL INSTALLED
EMPIRE SOILS INVESTIGATIONS, INC.
PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT
OCTOBER, 1988
SCALE
0'
120'
240'
0'
100'
200'
WASTE RESOURCE ASSOCIATES, INC.
TOPS MARKETS, INC.
NIAGARA FALLS BLVD. &
70th STREET PARCEL
56-C-23

DATE
STARTED 10-25-88
FINISHED 10-25-88
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC — **SUBSURFACE LOG**

HOLE NO. P-1
SURF. ELEV. 574.5
G. W. DEPTH See Notes

PROJECT Peter J. Schmitt (BELLS)
BTA-88-102

LOCATION Niagara Falls, New York

DEPTH-FT	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
0		S-1	5	3				Black foundry SANDS, trace Silty Clay, tr. brick, tr. wood (moist-FILL)	
			3	2		6	0.0-0.3		
		S-2	2	2				Contains White Slag (FILL)	
			2	2		4	0.0-0.3		
5		S-3	1	1					
			1	2		2	0.0-0.3	Grey and Brown mottled f-m SAND, some Silt, trace clay (moist, loose)	
		S-4	3	3					
			8	11		11	0.0-0.3	Grey to brown mottled Silty CLAY (moist, hard)	
		S-5	11	15					
10			21	23		36	0.0-0.3	Boring Complete at 10.0 feet	No Free Standing Water encountered at Boring Completion Organic vapors measured with Photoionization Detector (PID). Measurements recorded in parts per million (ppm)

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 " per blow.
C = No. blows to drive ____ " casing ____ " with ____ lb. weight falling ____ " per blow.

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION: ASTM D-1586 Using Hollow Stem Augers

DATE STARTED 10-25-88
FINISHED 10-25-88
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC — SUBSURFACE LOG

HOLE NO. P-2
SURF. ELEV. 575.2
G. W. DEPTH See Notes

PROJECT Peter J. Schmitt (BELLS) BTA-88-102
LOCATION Niagara Falls, New York

DEPTH FT.	SAMPLES	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
0		S-1	2	2				Black and Brown Clayey SILT, some f-c Sand, little f-c Gravel, tr. wood, slag, concrete, asphalt, brick (moist, FILL)	
			4	9		6	0.0-0.2		
		S-2	7	6					
			11	5		17	0.0-0.2		
5		S-3	5	6				Brown and grey mottled f-m SAND, some Silt, trace clay (moist, firm)	
			5	6		11	0.0-0.2		
		S-4	7	8					
			9	11		17	0.0-0.2	Brown and Grey mottled Silty CLAY (moist, firm)	
		S-5	16	20					
10			30	36		50	0.0-0.3		
								Boring Complete at 10.0 feet	No Free Standing Water encountered at Boring Completion
									Organic vapors measured with Photoionization Detector (PID) Measurements recorded in parts per million (ppm)

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 "per blow.
C = No. blows to drive _____ " casing _____ " with _____ lb. weight falling _____ "per blow.
METHOD OF INVESTIGATION: ASTM D-1586 Using Hollow Stem Augers

CLASSIFICATION Visual By Geologist

DATE STARTED 10-25-88
FINISHED 10-25-88
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC — SUBSURFACE LOG

HOLE NO. P-3
SURF. ELEV. 575.1
G.W. DEPTH See Notes

PROJECT Peter J. Schmitt (BELLS)
BTA-88-102

LOCATION Niagara Falls, New York

DEPTH-FT	SAMPLES	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
0		S-1	3	8			0.0-	Brown Clayey SILT, some f-c Sand, little f-c Gravel, little foundry Sands, tr. concrete, tr. brick, tr. asphalt, tr. wood (moist, FILL)	
			29	30		37	0.3		
		S-2	3	4			0.0-		
			5	6		9.	0.3	Brown and grey mottled f-m SAND, some Silt, tr. clay (moist, loose)	
5		S-3	3	5			0.0-		
			7	9		12	0.3	Contains f-c SAND (moist-wet, hard)	
		S-4	15	18			0.0-		
			17	16		35	0.3	Red-Brown SILT and CLAY, some f-c Sand, little f-c Gravel (moist-hard)	
		S-5	9	11			0.0-		
10			29	47		40	0.3	Glacial TILL (moist-wet, medium)	
		S-6	24	26			0.0-		
			47	47		73	0.3		
		S-7	3	5			0.0-		
			7	8		12	0.3		
								Refusal with Hollow Stem Augers @ 17.5'	
								Bottom of hole = 17.5 feet	Free Standing Water recorded at 13.8' below ground surface at completion Organic vapors measured with Photoionization Detector (PID). Measurements recorded in parts per million (ppm) Observation well installed Tip set @ 17/5 feet

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 "per blow.
C = No. blows to drive _____ " casing _____ " with _____ lb. weight falling _____ "per blow.

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

DATE STARTED 10-25-88
FINISHED 10-25-88
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC

SUBSURFACE LOG

HOLE NO. P-4 (A)
SURF. ELEV. ——
G. W. DEPTH See Notes

PROJECT Peter J. Schmitt (BELLS) BTA-88-102

LOCATION Niagara Falls, New York

DEPTH	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
0		S-1	2	3			0.0-	Brown Silty CLAY, some f-c Sand,	- VERY HARD DRILLING 1.5' (SLAG)
			4	50/.2		7	0.3	little f-c Gravel, trace brick, slag, trace asphalt (moist, FILL)	
5								Auger Refusal at 1.5 feet	- Moved borehole apprx. 10' northwest due to auger refusal in slag at 1.5 feet
10									No Free Standing water encountered at Boring Completion.
									Organic vapors measured with Photoionization Detector (PID). Measurements recorded in parts per million (ppm)

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 " per blow.
C = No. blows to drive ____ " casing ____ " with ____ lb. weight falling ____ " per blow.

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

DATE STARTED 10-25-88
FINISHED 10-25-88
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC — SUBSURFACE LOG

HOLE NO. P-4 (B)
SURF. ELEV. 575.0
G. W. DEPTH See Notes

PROJECT Peter J. Schmitt (BELLS) BTA-88-102

LOCATION Niagara Falls, New York

DEPTH FT	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
0								Brown Silty CLAY, some f-c Sand, little f-c Gravel, tr. brick, tr. slag, tr. asphalt (moist, FILL)	Auger to 3.0 feet No split-spoon samples
		S-1	3	3			0.0		
			5	5		8	0.3		
5		S-2	3	4			0.0	Brown and grey mottled SAND, some Silt, tr. clay (moist, loose)	
			3	9		7	0.3		
		S-3	3	8			0.0		
			21	26		29	0.3	Brown and grey mottled Silty CLAY (moist, stiff) (hard)	
10		S-4	36	47			0.0		
			37	47		84	0.3		
								Boring Complete at 11.0 feet	No Free Standing Water Encountered at Boring Completion Organic vapors measured with Photoionization Detector (PID) Measurements recorded in parts per million (ppm)

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 "per blow.

C = No blows to drive _____ " casing _____ " with _____ lb. weight falling _____ "per blow.

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

DATE STARTED 10-25-88
FINISHED 10-25-88
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC — SUBSURFACE LOG

HOLE NO P-5
SURF. ELEV. 576.0
G. W. DEPTH See Notes

PROJECT Peter J. Schmitt (BELLS) BTA-88-102

LOCATION Niagara Falls, New York

DEPTH-FT	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
0		S-1	3	5			0.0	Black to Brown Clayey SILT, some f-c Sand, little f-c Gravel, tr. brick, trace concrete, tr. asphalt (moist, FILL)	
			8	11		13	0.3		
		S-2	13	11			0.0		
			80	25		91	0.3		
5		S-3	5	30			0.0	Black f-c Gravel, some f-c Sand, little Silt, tr. clay, tr. brick, tr. wood (wet, FILL)	
			5	[illegible]		35	0.3		
		S-4	5	5			0.0		
			11	22		16	0.3	Brown and Grey mottled f-m SAND, some Silt, trace clay (moist, firm)	
		S-5	11	13			0.0		
10			19	29		31	0.3	Brown and Grey mottled Silty CLAY, tr. f-m Sand (moist, hard)	No Free Standing Water encountered at Boring Completion
								Boring Complete at 10.0 feet	Organic vapors measured with Photoionization Detector (PID). Measurements recorded in parts per million (ppm)
15									

N = No. blows to drive NX " spoon 2"OD " with 140 lb. pin wt. falling 30 "per blow.
C = No blows to drive _____ " casing _____ " with _____ lb. weight falling _____ "per blow.
METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

CLASSIFICATION Visual By Geologist

DATE STARTED 10-25-88 FINISHED 10-25-88 SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC — SUBSURFACE LOG

HOLE NO. P-6
SURF. ELEV. 578.0
G. W. DEPTH See Notes

PROJECT Peter J. Schmitt (BELLS) BTA-88-102
LOCATION Niagara Falls, New York

DEPTH FT	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
0		S-1	17	47			0.0	Grey f-c GRAVEL, some f-c Sand, tr. clayey Silt, tr. brick, tr. asphalt, tr. concrete, tr. glass (moist, FILL)	
			40	54		87	0.3		
		S-2	27	18			0.0		
			40	10		58	0.3		
5		S-3	5	4			0.0	Contains little clay and silt (moist, FILL)	
			5	4		9	0.3		
		S-4	5	6			0.0	Black to grey SILT and CLAY, little f-c Sand, tr. brick (moist, FILL)	
			6	6		12	0.3		
		S-5	7	6			0.0	Brown and grey mottled f-m SAND, some Silt, trace clay (moist, firm)	
10			7	10		13	0.3		
								Boring Complete at 10.0 feet	No Free Standing Water encountered at Boring Completion
15									Organic vapors measured with Photoionization Detector (PID). Measurements recorded in parts per million (ppm).

N = No. blows to drive NX" - spoon 2½" - with 140 lb. pin wt. falling 30" per blow.
C = No. blows to drive ____" casing ____" with ____ lb. weight falling ____" per blow.
METHOD OF INVESTIGATION: ASTM D-1586 Using Hollow Stem Augers
CLASSIFICATION Visual By Geologist

Empire Soils Investigations, Inc.: Environmental Site Assessment (10/88)

This environmental site assessment focused its attention on the western half of the Tops parcel (approximately 9.8 acres of property). The investigation was performed for Peter J. Schmitt Company, Inc. who owned that portion of the Tops parcel in 1988.

The scope of this site investigation included the drilling of twenty seven (27) test borings and the construction of five (5) groundwater monitoring wells.

Of the twenty seven (27) test borings, composite soil samples were collected at six (6) sites (B-1, B-7, B-11, B-12, B-22, B-23) and were subjected to the following analytical testing protocols;

Purgeable Halocarbons - SW846; Method 8010
Purgeable Aromatics - SW846; Method 8020
PCB's/Pesticides - SW846; Method 8080

Based on the results of analytical testing of the soil samples, the assessment concluded that no significant concentra - tions of detectable constituents were reported at any sampled location (ESI-1988).

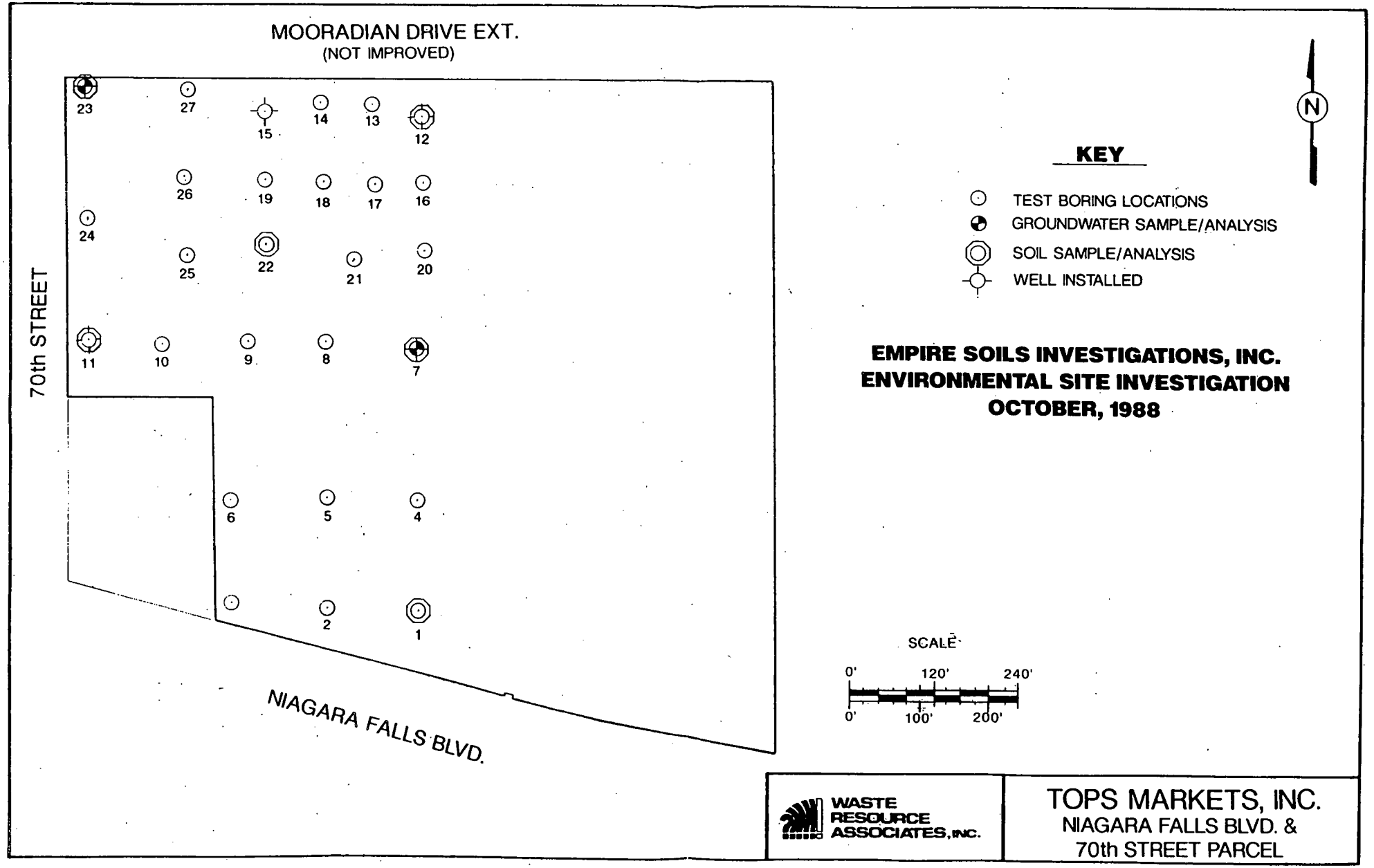
Five (5) groundwater monitoring wells were installed at borings 7, 11, 12, 15 and 23. Groundwater samples were taken at wells B-7 and B-23 and were tested according to the following analytical procedures;

Purgeable Halocarbons - SW846; Method 601
Purgeable Aromatics - SW846; Method 602
PCBs/Pesticides - SW846; Method 608.

56-0113

The results of the analytical testing did not identify any detectable constituents to be present at significant levels (ESI-1988).

An HNu photoionization detector was used to measure any volatile organic vapors that might be released as a result of subsurface drilling and sampling activities. The results of this survey indicated that organic vapors were detected at levels of less than 1 ppm, compared to ambient background readings of 0.0 ppm - 0.4 ppm which were established for the site.


MOORADIAN DRIVE EXT.
(NOT IMPROVED)
70th STREET
NIAGARA FALLS BLVD.
23
27
15
14
13
12
26
19
18
17
16
24
25
22
21
20
11
10
9
8
7
6
5
4
2
1
N
KEY
TEST BORING LOCATIONS
GROUNDWATER SAMPLE/ANALYSIS
SOIL SAMPLE/ANALYSIS
WELL INSTALLED
EMPIRE SOILS INVESTIGATIONS, INC.
ENVIRONMENTAL SITE INVESTIGATION
OCTOBER, 1988
SCALE
0'
120'
240'
0'
100'
200'
WASTE RESOURCE ASSOCIATES, INC.
TOPS MARKETS, INC.
NIAGARA FALLS BLVD. &
70th STREET PARCEL

56-C-23

HUNTINGDON ANALYTICAL SERVICES
ENVIRONMENTAL

METHOD 8010
PURGEABLE HALOCARBONS

		10068-B-22	10058-B-12	10048-B-7	10048-B-1	Method Blank	
Sample Identification:							
HAS Sample #30-672		001	002	003	004	--	
Date Sampled:		10/6/88	10/5/88	10/4/88	10/4/88	--	
Date Received:		10/6/88	10/6/88	10/6/88	10/6/88	--	
Date Analyzed:		10/13/88	10/13/88	10/13/88	10/13/88	10/13/88	
Dilution Factor:		1	1	1	1	1	
COMPOUND	Det. Limit µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg
Bromodichloromethane	50	ND	ND	ND	ND	ND	
Bromoform	500	ND	ND	ND	ND	ND	
Bromomethane	50	ND	ND	ND	ND	ND	
Carbon tetrachloride	50	ND	ND	<DL	ND	ND	
Chlorobenzene	50	ND	ND	ND	ND	ND	
Chloroethane	50	ND	ND	ND	ND	ND	
2-Chloroethylvinyl ether	500	ND	ND	ND	ND	ND	
Chloroform	50	ND	ND	<DL	<DL	ND	
Chloromethane	500	ND	ND	ND	ND	ND	
Dibromochloromethane	50	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	100	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	100	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	100	ND	ND	ND	ND	ND	
Dichlorodifluoromethane	50	ND	ND	ND	ND	ND	
1,1-Dichloroethane	50	ND	ND	ND	ND	ND	
1,2-Dichloroethane	50	ND	ND	ND	ND	ND	
1,1-Dichloroethene	50	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	50	ND	ND	ND	ND	ND	
1,2-Dichloropropane	50	ND	ND	ND	ND	ND	

HUNTINGDON ANALYTICAL SERVICES
ENVIRONMENTAL

METHOD 8010
PURGEABLE HALOCARBONS

Sample Identification:		10068-B-22	10058-B-12	10048-B-7	10048-B-1	Method Blank	
HAS Sample #30-672		001	002	003	004	--	
Date Sampled:		10/6/88	10/5/88	10/4/88	10/4/88	--	
Date Received:		10/6/88	10/6/88	10/6/88	10/6/88	--	
Date Analyzed:		10/13/88	10/13/88	10/13/88	10/13/88	10/13/88	
Dilution Factor:		1	1	1	1	1	
COMPOUND	Det. Limit µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg
cis-1,3-Dichloropropene	50	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene	50	ND	ND	ND	ND	ND	
Methylene chloride	250	<DL	<DL	<DL	<DL	<DL	
1,1,2,2-Tetrachloroethane	50	ND	ND	*<DL	ND	ND	
Tetrachloroethene	50	ND	ND	*<DL	ND	ND	
1,1,1-Trichloroethane	50	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	50	ND	ND	ND	ND	ND	
Trichloroethene	50	ND	ND	<DL	<DL	66	
Trichlorofluoromethane	50	ND	ND	ND	ND	ND	
Vinyl chloride	50	ND	ND	ND	ND	ND	

*Chromatographically, 1,1,2,2-Tetrachloroethane and Tetrachloroethene co-elute. The reported value is, therefore, an and/or value.

Quality Control

Surrogate	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Chlorobromomethane	107	111	114	106	114	
1-Chloro-2-bromopropane	101	103	93	86	103	
1,4-Dichlorobutane	107	112	113	89	108	

HUNTINGDON ANALYTICAL SERVICES
ENVIRONMENTAL

METHOD 8010
PURGEABLE HALOCARBONS

Sample Identification:		09308-23 B-23	10038 B-11	Method Blank			
HAS Sample #30-660		001	002	--			
Date Sampled:		9/30/88	10/3/88	--			
Date Received:		10/3/88	10/3/88	--			
Date Analyzed:		10/6/88	10/6/88	10/6/88			
Dilution Factor:		1	1	1			
COMPOUND	Det. Limit µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg
Bromodichloromethane	50	ND	ND	ND			
Bromoform	500	ND	ND	ND			
Bromomethane	50	ND	ND	ND			
Carbon tetrachloride	50	ND	ND	ND			
Chlorobenzene	50	ND	ND	ND			
Chloroethane	50	ND	ND	ND			
2-Chloroethylvinyl ether	500	ND	ND	ND			
Chloroform	50	ND	ND	ND			
Chloromethane	500	ND	ND	ND			
Dibromochloromethane	50	ND	ND	ND			
1,2-Dichlorobenzene	100	ND	ND	ND			
1,3-Dichlorobenzene	100	ND	ND	ND			
1,4-Dichlorobenzene	100	ND	ND	ND			
Dichlorodifluoromethane	50	ND	ND	ND			
1,1-Dichloroethane	50	190	ND	ND			
1,2-Dichloroethane	50	ND	ND	ND			
1,1-Dichloroethene	50	<DL	ND	ND			
trans-1,2-Dichloroethene	50	ND	ND	ND			
1,2-Dichloropropane	50	ND	ND	ND			

HUNTINGDON ANALYTICAL SERVICES
ENVIRONMENTAL

METHOD 8010
PURGEABLE HALOCARBONS

Sample Identification:		09308-23 B-23	10038 B-11	Method Blank			
HAS Sample #30-660		001	002	--			
Date Sampled:		9/30/88	10/3/88	--			
Date Received:		10/3/88	10/3/88	--			
Date Analyzed:		10/6/88	10/6/88	10/6/88			
Dilution Factor:		1	1	1			
COMPOUND	Det. Limit µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg
cis-1,3-Dichloropropene	50	ND	ND	ND			
trans-1,3-Dichloropropene	50	ND	ND	ND			
Methylene chloride	250	<DL	<DL	<DL			
1,1,2,2-Tetrachloroethane	50	ND	ND	ND			
Tetrachloroethene	50	ND	ND	ND			
1,1,1-Trichloroethane	50	ND	ND	ND			
1,1,2-Trichloroethane	50	ND	ND	ND			
Trichloroethene	50	ND	ND	ND			
Trichlorofluoromethane	50	ND	ND	ND			
Vinyl chloride	50	ND	ND	ND			

Quality Control

Surrogate	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Chlorobromomethane	86	85	100			
1-Chloro-2-bromopropane	111	108	100			
1,4-Dichlorobutane	91	103	100			

HUNTINGDON ANALYTICAL SERVICES
ENVIRONMENTAL

METHOD 8020
PURGEABLE AROMATICS

Sample Identification:		10068-B-22	10058-B-12	10048-B-7	10048-B-1	Method Blank	
HAS Sample #30-672		001	002	003	004	--	
Date Sampled:		10/6/88	10/5/88	10/4/88	10/4/88	--	
Date Received:		10/6/88	10/6/88	10/6/88	10/6/88	--	
Date Analyzed:		10/13/88	10/13/88	10/13/88	10/13/88	10/13/88	
Dilution Factor:		1	1	1	1	1	
COMPOUND	Det. Limit µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg
Benzene	50	<DL	300	<DL	<DL	<DL	
Chlorobenzene	50	*<DL	*<DL	*<DL	*<DL	*<DL	
Ethylbenzene	50	<DL	<DL	<DL	<DL	<DL	
1,2-Dichlorobenzene	100	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	50	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	50	ND	ND	ND	ND	ND	
Toluene	50	<DL	<DL	<DL	<DL	<DL	
m-Xylene	50	*<DL	*<DL	*<DL	*<DL	*<DL	
o-Xylene	50	<DL	ND	ND	ND	ND	
p-Xylene	50	ND	ND	ND	ND	ND	

*Chromatographically, Chlorobenzene and m-Xylene co-elute. The reported value is, therefo
an and/or value.

Quality Control

Surrogate	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
α,α,α-Trifluorotoluene	86	88	86	86	90	

HUNTINGDON ANALYTICAL SERVICES
ENVIRONMENTAL

METHOD 8020
PURGEABLE AROMATICS

Sample Identification:		09308-23 B-23	10038 B-11	Method Blank			
HAS Sample #30-660		001	002	--			
Date Sampled:		9/30/88	10/3/88	--			
Date Received:		10/3/88	10/3/88	--			
Date Analyzed:		10/5/88	10/5/88	10/5/88			
Dilution Factor:		1	1	1			
COMPOUND	Det. Limit µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg	Result µg/Kg
Benzene	50	<DL	100	<DL			
Chlorobenzene	50	*<DL	*<DL	*<DL			
Ethylbenzene	50	ND	<DL	ND			
1,2-Dichlorobenzene	100	ND	ND	ND			
1,3-Dichlorobenzene	50	ND	ND	ND			
1,4-Dichlorobenzene	50	ND	ND	ND			
Toluene	50	<DL	<DL	<DL			
m-Xylene	50	*<DL	*<DL	*<DL			
o-Xylene	50	ND	ND	ND			
p-Xylene	50	ND	ND	<DL			

*Chromatographically, Chlorobenzene and m-Xylene co-elute. The reported value is, therefore an and/or value.

Quality Control

Surrogate	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
α,α,α-Trifluorotoluene	85	86	89			

HUNTINGDON ANALYTICAL SERVICES
ENVIRONMENTAL

METHOD 8080
ORGANOCHLORINE PESTICIDES AND PCB's

Sample Identification:		10068-B-22	10058-B-12	10048-B-7	10048-B-1	Method Blank	
HAS Sample #30-672		001	002	003	004	--	
Date Sampled:		10/6/88	10/5/88	10/4/88	10/4/88	--	
Date Received:		10/6/88	10/6/88	10/6/88	10/6/88	--	
Date Prepared:		10/12/88	10/12/88	10/12/88	10/12/88	10/12/88	
Date Analyzed:		10/14/88	10/14/88	10/14/88	10/14/88	10/14/88	
Dilution Factor:		1	1	1	1	1	
COMPOUND	Detection Limit µg/g	Result µg/g	Result µg/g	Result µg/g	Result µg/g	Result µg/g	Result µg/g
Aldrin	0.01	ND	ND	ND	ND	ND	
a-BHC	0.01	<DL	ND	<DL	ND	ND	
b-BHC	0.01	0.048	ND	<DL	ND	ND	
d-BHC	0.01	ND	ND	<DL	ND	ND	
g-BHC	0.01	ND	ND	ND	ND	ND	
Chlordane	0.10	ND	ND	ND	ND	ND	
4,4'-DDD	0.02	ND	<DL	<DL	ND	ND	
4,4'-DDE	0.02	ND	ND	ND	ND	ND	
4,4'-DDT	0.02	ND	<DL	ND	ND	ND	
Dieldrin	0.02	<DL	ND	<DL	ND	ND	
Endosulfan I	0.01	ND	ND	ND	ND	ND	
Endosulfan II	0.02	ND	<DL	<DL	ND	ND	
Endosulfan sulfate	0.02	ND	ND	ND	ND	ND	
Endrin	0.02	ND	ND	ND	ND	ND	
Endrin aldehyde	0.02	ND	ND	ND	ND	ND	
Heptachlor	0.01	ND	ND	ND	ND	ND	
Heptachlor epoxide	0.01	<DL	<DL	<DL	ND	ND	
Toxaphene	0.20	ND	ND	ND	ND	ND	
Hexabromobenzene Surrogate % Rec.		84	91	110	99	108	

HUNTINGDON ANALYTICAL SERVICES
ENVIRONMENTAL

METHOD 8080
ORGANOCHLORINE PESTICIDES AND PCB's --

		10068-B-22	10058-B-12	10048-B-7	10048-B-1	Method Blank	
Sample Identification:		001	002	003	004	--	
HAS Sample #30-672		10/6/88	10/5/88	10/4/88	10/4/88	--	
Date Sampled:		10/6/88	10/6/88	10/6/88	10/6/88	--	
Date Received:		10/12/88	10/12/88	10/12/88	10/12/88	10/12/88	
Date Prepared:		10/14/88	10/14/88	10/14/88	10/14/88	10/14/88	
Date Analyzed:		1	1	1	1	1	
Dilution Factor:							
COMPOUND	Detection Limit µg/g	Result µg/g	Result µg/g	Result µg/g	Result µg/g	Result µg/g	Result µg/g
AC-1016	0.20	ND	ND	ND	ND	ND	
AC-1221	0.20	ND	ND	ND	ND	ND	
AC-1232	0.20	ND	ND	ND	ND	ND	
AC-1242	0.20	ND	ND	ND	ND	ND	
AC-1248	0.20	ND	ND	ND	ND	ND	
AC-1254	0.20	ND	ND	ND	ND	ND	
AC-1260	0.20	ND	ND	ND	ND	ND	

HUNTINGDON ANALYTICAL SERVICES
ENVIRONMENTAL

METHOD 8080
ORGANOCHLORINE PESTICIDES AND PCB's

Sample Identification:		09308-23 B-23	10038 B-11	Method Blank			
HAS Sample #30-660		001	002	--			
Date Sampled:		9/30/88	10/3/88	--			
Date Received:		10/3/88	10/3/88	--			
Date Prepared:		10/12/88	10/12/88	10/12/88			
Date Analyzed:		10/14/88	10/14/88	10/14/88			
Dilution Factor:		*5	1	1			
COMPOUND	Detection Limit µg/g	Result µg/g	Result µg/g	Result µg/g	Result µg/g	Result µg/g	Result µg/g
Aldrin	0.01	<DL	<DL	ND			
a-BHC	0.01	0.13	0.022	ND			
b-BHC	0.01	4.2	0.74	ND			
d-BHC	0.01	<DL	<DL	ND			
g-BHC	0.01	<DL	ND	ND			
Chlordane	0.10	ND	ND	ND			
4,4'-DDD	0.02	ND	ND	ND			
4,4'-DDE	0.02	ND	<DL	ND			
4,4'-DDT	0.02	ND	ND	ND			
Dieldrin	0.02	ND	<DL	ND			
Endosulfan I	0.01	ND	ND	ND			
Endosulfan II	0.02	ND	ND	ND			
Endosulfan sulfate	0.02	ND	ND	ND			
Endrin	0.02	ND	ND	ND			
Endrin aldehyde	0.02	ND	ND	ND			
Heptachlor	0.01	ND	ND	ND			
Heptachlor epoxide	0.01	ND	ND	ND			
Toxaphene	0.20	ND	ND	ND			
Hexabromobenzene Surrogate % Rec.		110	78	108			

*Method detection limit (MDL) for sample dependent upon analyte concentration/sample matrix and increases as a direct multiple of the dilution factor.

HUNTINGDON ANALYTICAL SERVICES
ENVIRONMENTAL

METHOD 8080
ORGANOCHLORINE PESTICIDES AND PCB's

Sample Identification:		09308-23 B-23	10038 B-11	Method Blank			
HAS Sample #30-660		001	002	--			
Date Sampled:		9/30/88	10/3/88	--			
Date Received:		10/3/88	10/3/88	--			
Date Prepared:		10/12/88	10/12/88	10/12/88			
Date Analyzed:		10/14/88	10/14/88	10/14/88			
Dilution Factor:		*5	1	1			
COMPOUND	Detection Limit µg/g	Result µg/g	Result µg/g	Result µg/g	Result µg/g	Result µg/g	Result µg/g
AC-1016	0.20	ND	ND	ND			
AC-1221	0.20	ND	ND	ND			
AC-1232	0.20	ND	ND	ND			
AC-1242	0.20	ND	ND	ND			
AC-1248	0.20	ND	ND	ND			
AC-1254	0.20	ND	ND	ND			
AC-1260	0.20	ND	ND	ND			

*Method detection limit (MDL) for sample dependent upon analyte concentration/sample matrix and increases as a direct multiple of the dilution factor.

HUNTINGDON ANALYTICAL SERVICES
ENVIRONMENTAL

METHOD 601
PURGEABLE HALOCARBONS

Sample Identification:		B-23	B-7	Method Blank			
HAS Sample #30-682		001	002	--			
Date Sampled:		10/12/88	10/12/88	--			
Date Received:		10/13/88	10/13/88	--			
Date Analyzed:		10/21/88	10/21/88	10/21/88			
Dilution Factor:		1	1	1			
COMPOUND	Detection Limit µg/l	Result µg/l	Result µg/l	Result µg/l	Result µg/l	Result µg/l	Result µg/l
Bromodichloromethane	0.50	ND	ND	ND			
Bromoform	5.0	ND	ND	ND			
Bromomethane	0.50	ND	ND	ND			
Carbon tetrachloride	0.50	ND	ND	ND			
Chlorobenzene	0.50	ND	ND	ND			
Chloroethane	0.50	ND	ND	ND			
2-Chloroethylvinyl ether	5.0	ND	ND	ND			
Chloroform	0.50	0.62	2.7	ND			
Chloromethane	0.50	0.90	ND	ND			
Dibromochloromethane	0.50	ND	ND	ND			
1,2-Dichlorobenzene	1.0	ND	ND	ND			
1,3-Dichlorobenzene	1.0	ND	ND	ND			
1,4-Dichlorobenzene	1.0	ND	ND	ND			
Dichlorodifluoromethane	0.50	ND	ND	ND			
1,1-Dichloroethane	0.50	ND	ND	ND			
1,2-Dichloroethane	0.50	ND	ND	ND			
1,1-Dichloroethene	0.50	ND	ND	ND			
trans-1,2-Dichloroethene	0.50	ND	ND	ND			
1,2-Dichloropropane	0.50	ND	ND	ND			

HUNTINGDON ANALYTICAL SERVICES
ENVIRONMENTAL

METHOD 601
PURGEABLE HALOCARBONS

Sample Identification:		B-23	B-7	Method Blank			
HAS Sample #30-682		001	002	--			
Date Sampled:		10/12/88	10/12/88	--			
Date Received:		10/13/88	10/13/88	--			
Date Analyzed:		10/21/88	10/21/88	10/21/88			
Dilution Factor:		1	1	1			
COMPOUND	Detection Limit µg/l	Result µg/l	Result µg/l	Result µg/l	Result µg/l	Result µg/l	Result µg/l
cis-1,3-Dichloropropene	0.50	ND	ND	ND			
trans-1,3-Dichloropropene	0.50	ND	ND	ND			
Methylene chloride	2.5	<DL	<DL	<DL			
1,1,2,2-Tetrachloroethane	0.50	ND	ND	ND			
Tetrachloroethene	0.50	ND	ND	ND			
1,1,1-Trichloroethane	0.50	<DL	0.58	<DL			
1,1,2-Trichloroethane	0.50	ND	ND	ND			
Trichloroethene	0.50	<DL	<DL	ND			
Trichlorofluoromethane	0.50	ND	ND	ND			
Vinyl chloride	0.50	ND	ND	ND			

Quality Control

Surrogate	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Chlorobromomethane	95	105	102			
1-Chloro-2-bromopropane	108	100	100			
1,4-Dichlorobutane	97	88	101			

HUNTINGDON ANALYTICAL SERVICES
ENVIRONMENTAL

METHOD 602
PURGEABLE AROMATICS

Sample Identification:		B-23	B-7	Method Blank	Bells-PJ Schmitt	
HAS Sample #30-		682-001	682-002	--	687-002	
Date Sampled:		10/12/88	10/12/88	--	10/13/88	
Date Received:		10/13/88	10/13/88	--	10/14/88	
Date Analyzed:		10/17/88	10/17/88	10/17/88	10/17/88	
Dilution Factor:		1	1	1	1	
COMPOUND	Detection Limit µg/l	Result µg/l	Result µg/l	Result µg/l	Result µg/l	Result µg/l
Benzene	0.50	<DL	<DL	ND	ND	
Chlorobenzene	0.50	*<DL	*<DL	ND	*<DL	
Ethylbenzene	0.50	<DL	<DL	ND	<DL	
1,2-Dichlorobenzene	0.50	ND	ND	ND	ND	
1,3-Dichlorobenzene	0.50	ND	ND	ND	ND	
1,4-Dichlorobenzene	0.50	ND	ND	ND	<DL	
Toluene	0.50	<DL	<DL	<DL	<DL	
m-Xylene	0.50	*<DL	*<DL	ND	*<DL	
o-Xylene	0.50	<DL	<DL	ND	ND	
p-Xylene	0.50	<DL	<DL	ND	ND	

*Chromatographically, Chlorobenzene and m-Xylene co-elute. The reported value is, therefore, an and/or value.

Quality Control

Surrogate	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
α,α,α-Trifluorotoluene	94	98	96	73	

HUNTINGDON ANALYTICAL SERVICES
ENVIRONMENTAL

METHOD 608
ORGANOCHLORINE PESTICIDES AND PCB's

Sample Identification:		B-23	B-7	Method Blank	Method Blank		
HAS Sample #30-682		001	002	--	--		
Date Sampled:		10/12/88	10/12/88	--	--		
Date Received:		10/13/88	10/13/88	--	--		
Date Prepared:		10/25/88	10/18/88	10/25/88	10/18/88		
Date Analyzed:		10/26/88	10/21/88	10/26/88	10/21/88		
Dilution Factor:		1	1	1	1		
COMPOUND	Detection Limit µg/l	Result µg/l	Result µg/l	Result µg/l	Result µg/l	Result µg/l	Result µg/l
Aldrin	0.05	ND	ND	ND	ND		
a-BHC	0.05	8.3	0.21	ND	ND		
b-BHC	0.05	3.3	0.84	ND	ND		
d-BHC	0.05	<DL	<DL	ND	ND		
g-BHC	0.05	0.12	ND	ND	ND		
Chlordane	0.50	ND	ND	ND	ND		
4,4'-DDD	0.10	ND	ND	ND	ND		
4,4'-DDE	0.10	ND	<DL	ND	ND		
4,4'-DDT	0.10	ND	ND	ND	ND		
Dieldrin	0.10	ND	ND	ND	ND		
Endosulfan I	0.05	ND	ND	ND	ND		
Endosulfan II	0.10	ND	ND	ND	ND		
Endosulfan sulfate	0.10	ND	ND	ND	ND		
Endrin	0.10	ND	ND	ND	ND		
Endrin aldehyde	0.10	ND	ND	ND	ND		
Heptachlor	0.05	ND	ND	ND	ND		
Heptachlor epoxide	0.05	ND	ND	ND	ND		
Toxaphene	1.0	ND	ND	ND	ND		
Hexabromobenzene Surrogate % Rec.		65	96	93	110		

HUNTINGDON ANALYTICAL SERVICES
ENVIRONMENTAL

METHOD 608
ORGANOCHLORINE PESTICIDES AND PCB's

Sample Identification:		B-23	B-7	Method Blank	Method Blank		
HAS Sample #30-682		001	002	--	--		
Date Sampled:		10/12/88	10/12/88	--	--		
Date Received:		10/13/88	10/13/88	--	--		
Date Prepared:		10/25/88	10/18/88	10/25/88	10/18/88		
Date Analyzed:		10/26/88	10/21/88	10/26/88	10/21/88		
Dilution Factor:		1	1	1	1		
COMPOUND	Detection Limit µg/l	Result µg/l	Result µg/l	Result µg/l	Result µg/l	Result µg/l	Result µg/l
AC-1016	0.5	ND	ND	ND	ND		
AC-1221	0.5	ND	ND	ND	ND		
AC-1232	0.5	ND	ND	ND	ND		
AC-1242	0.5	ND	ND	ND	ND		
AC-1248	0.5	ND	ND	ND	ND		
AC-1254	1.0	ND	ND	ND	ND		
AC-1260	1.0	ND	ND	ND	ND		

Waste Resource Associates, Inc.: Environmental Property Assessment (11/89)

At the time of this environmental property assessment, Tops Markets, Inc. had purchased the western portion of the parcel (8.9 acres) and was considering the acquisition of the adjacent acreage to the east of that parcel. The scope of this investigation involved the collection and analytical testing of eleven (11) surface soil samples and three (3) groundwater samples taken from previously existing monitoring wells on-site.

Soil

Soil samples were subjected to analysis by the following testing procedures:

- Extraction Procedure Toxicity (EPTOX) - Metals,
- Extractable Organic Halides (EOX),
- Phenols, and,
- pH.

EPTOX Metals

There were no constituents identified at levels which exceeded the maximum allowable concentration for this testing procedure.

EOX

Extractable Organic Halides were detected in nine (9) of the eleven (11) soil samples analyzed by this testing procedure. Concentrations ranged from 1.06 ppm to 23.4 ppm with only two (2) samples exceeding 8.0 ppm.

56-0113

Phenols

Phenolic compounds were identified in only three (3) of the eleven (11) soil samples subjected to analysis. The concentrations ranged from 0.6 ppm to 1.1 ppm and were only slightly in excess of the quanitifiable limit of 0.5 ppm for this test procedure.

pH

The pH of the soil samples ranged from 7.0 to 8.0 (neutral - 7.0).

Groundwater

Groundwater samples were subjected to analysis by the following testing procedures;

- Total Organic Halides (TOX),
- Total Organic Carbon,
- Phenols, and,
- pH.

TOX

The concentrations of Total Organic Halides identified by this testing procedure in the three (3) groundwater samples ranged from 27.5 ppb to 46.1 ppb. These levels are not significantly above the 10 ppb quantifiable limit for this analytical protocol.

Total Organic Carbon

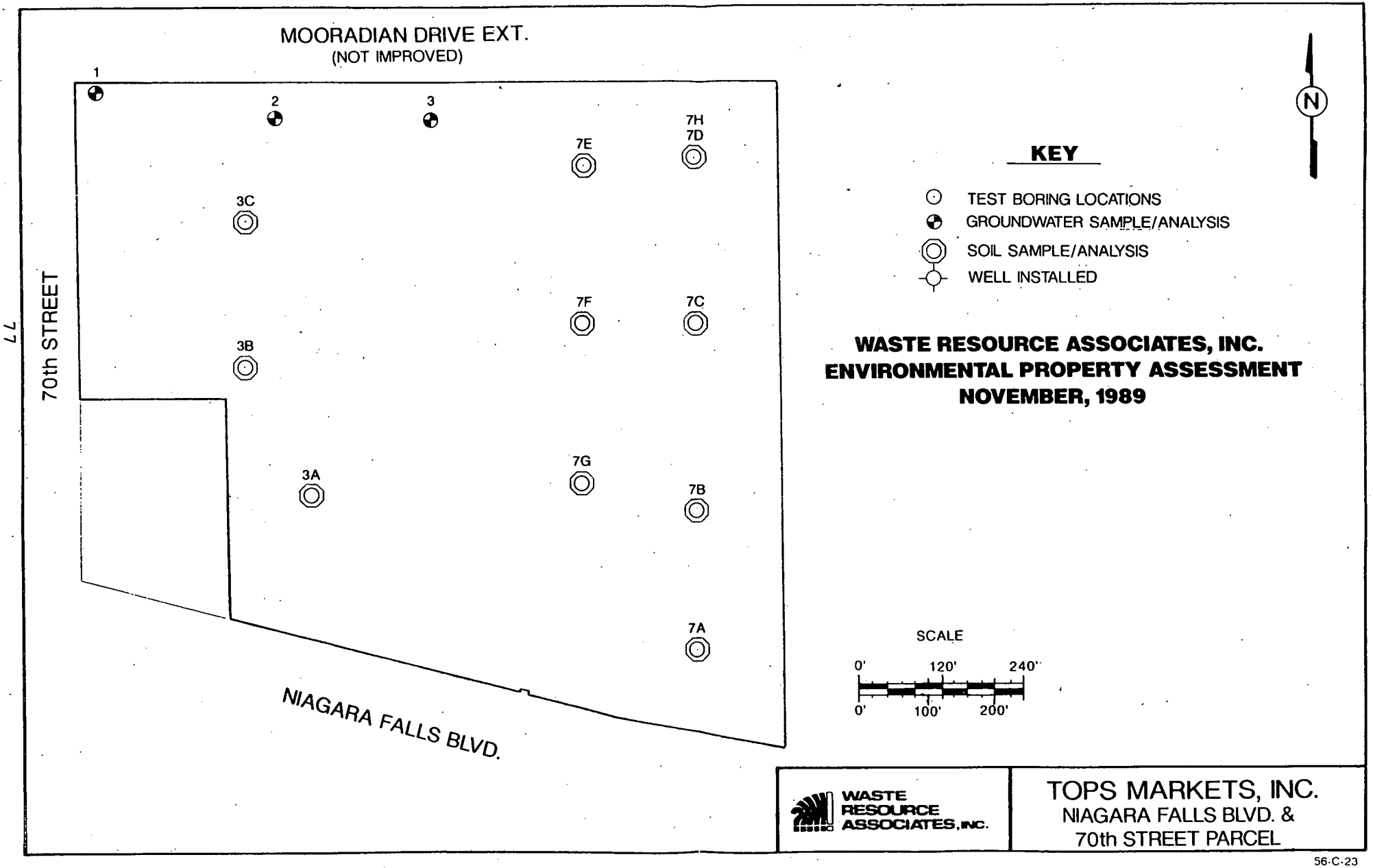
The levels of organic carbon measured in the groundwater samples ranged from a concentration of 19 ppm to 88 ppm.

Phenols

Phenols were detected in all of the groundwater samples at low concentrations which ranged from 0.009 ppm to 0.019 ppm. These levels are not significantly above the 0.005 ppm quantifiable limit for this test procedure.

pH

The pH of the groundwater samples ranged from 6.8 to 9.2 (neutral - 7.0).



WASTE RESOURCE ASSOCIATES, INC.
ENVIRONMENTAL PROPERTY ASSESSMENT
NOVEMBER, 1989

WASTE RESOURCE ASSOCIATES, INC.

TOPS MARKETS, INC.
NIAGARA FALLS BLVD. &
70th STREET PARCEL

56-C-23

EXTRACTION PROCEDURE (E.P.) TOXICITY - METALS
ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: Metals
Client: WRA A.E.S. Job Code ELG

(All results are in mg/l)

Analysis	Method No.	Ref No.	Allowable Conc. (mg/l)	Quant. Limits	Analysis Date	A.E.S. Lab No.- 13756 Sample ID - 1-3 COMP 11/02/89	13757 1-7 COMP 11/02/89
Arsenic	7060	5	5.0	0.005	11/09/89	BQL *	BQL
Barium	7080	5	100.0	1.00	11/10/89	1.16	BQL
Cadmium	7130	5	1.0	0.04	11/09/89	0.05	0.05
Chromium	7190	5	5.0	0.50	11/09/89	BQL	BQL
Lead	7420	5	5.0	1.00	11/09/89	BQL	BQL
Mercury	7471	5	0.2	0.001	11/15/89	BQL	BQL
Selenium	7740	5	1.0	0.005	11/09/89	0.005	0.009
Silver	7760	5	5.0	0.10	11/09/89	BQL	BQL

* Below Quantifiable Limits

Michael J. Simpson
Inorganic Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ Kilogram or ppm
Client: WRA A.E.S. Job Code ELG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.-	13742	13743	13744
			Sample ID -	3-A GRAB	3-B GRAB	3-C GRAB
			Sample Date-	11/02/89	11/02/89	11/02/89
EOX	DOR 4-40	1.00		1.06	BQL *	3.94

79

* Below Quantifiable Limits

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Wayne J. Juda
Organic Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ Kilogram or ppm
Client: WRA A.E.S. Job Code ELG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.-	13745	13746	13747
			Sample ID -	7-A GRAB	7-B GRAB	7-C GRAB
			Sample Date-	11/02/89	11/02/89	11/02/89
EOX	DOR 4-40	1.00		BQL *	3.24	7.59

80

* Below Quantifiable Limits

Wayne J. Juda
Organic Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ Kilogram or ppm
Client: WRA A.E.S. Job Code ELG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.-	13748	13749	13750
			Sample ID -	7-D GRAB	7-E GRAB	7-F GRAB
			Sample Date-	11/02/89	11/02/89	11/02/89
EOX	DOR 4-40	1.00		5.10	1.93	18.3

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Wayne J. Juda
Organic Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ Kilogram or ppm
Client: WRA A.E.S. Job Code ELG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.-	13751	13752
			Sample ID -	7-G GRAB	7-H GRAB
			Sample Date-	11/02/89	11/02/89
EOX	DOR 4-40	1.00		23.4	7.83

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Wayne J. Juda
Organic Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: INORGANICS

Client: WRA A.E.S. Job Code ELG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No. -	13742	13743	13744	13745
			Sample ID -	3-A GRAB	3-B GRAB	3-C GRAB	7-A GRAB
			Sample Date-	11/02/89	11/02/89	11/02/89	11/02/89
pH (Standard Units)	9045	0.01		7.6	8.0	7.0	7.4
Phenols (mg/kg)	9066	0.5		BQL *	BQL	BQL	BQL

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* Below Quantifiable Limits

Michael J. Simpson
Inorganic Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: INORGANICS

Client: WRA A.E.S. Job Code ELG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No. - / Sample ID - / Sample Date-	13746 7-B GRAB 11/02/89	13747 7-C GRAB 11/02/89	13748 7-D GRAB 11/02/89	13749 7-E GRAB 11/02/89
pH (Standard Units)	9045	0.01		7.4	7.4	7.8	7.0
Phenols (mg/kg)	9066	0.5		BQL *	BQL	1.1	BQL

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* Below Quantifiable Limits

Michael J. Simpson
Inorganic Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: INORGANICS

Client: WRA A.E.S. Job Code ELG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No. -	13750	13751	13752
			Sample ID -	7-F GRAB	7-G GRAB	7-H GRAB
			Sample Date-	11/02/89	11/02/89	11/02/89
pH (Standard Units)	9045	0.01		7.3	7.6	7.7
Phenols (mg/kg)	9066	0.5		0.6	BQL *	0.6

85

* Below Quantifiable Limits

Michael J. Simpson
Inorganic Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: INORGANICS

Client: WRA A.E.S. Job Code ELG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No. -	13753	13754	13755
			Sample ID -	WELL - 1 GRAB	WELL - 2 GRAB	WELL - 3 GRAB
			Sample Date-	11/03/89	11/03/89	11/03/89
pH (Standard Units)	423	0.01		9.2	6.8	8.0
Phenols (mg/l)	420.2	0.005		0.011	0.019	0.009
Total Organic Carbon (mg/l)	505B	1.0		27	19	88

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Michael J. Simpson
Inorganic Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: TOTAL ORGANIC HALIDES (TOX)

Units of Measure: Micrograms/Liter or ppb
Client: WRA A.E.S. Job Code ELG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID - / Sample Date-	13753 GRAB WELL 1 11-03-89	13754 GRAB WELL 2 11-03-89	13755 GRAB WELL 3 11-03-89
Total Organic Halides	SW 846 9020	10.0		46.1	37.6	27.5

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Wayne J. Juda
Organic Supervisor

Waste Resource Associates, Inc.: Environmental Property Assessment Phase II (1/90)

The scope of this investigation involved the collection and analysis of subsurface soil samples taken at ten (10) test boring locations. Soil samples were obtained by a hollow-stem soil auger drill rig using split-spoon sampling techniques. Samples were taken at three (3) distinct stratigraphic intervals at each test boring location;

1) sample of non-indigenous "fill" material taken from the base of this interval,

2) sample of sand/clay material which lies beneath the "fill" interval,

3) sample of clay which rests on top of bedrock at the site.

Analysis of the subsurface soil samples was limited to Extractable Organic Halides (EOX) in an attempt to delineate the extent to which these constituents were present in the subsurface based on their detection in surface samples taken during the Phase I - Environmental Property Assessment (WRA - 11/89).

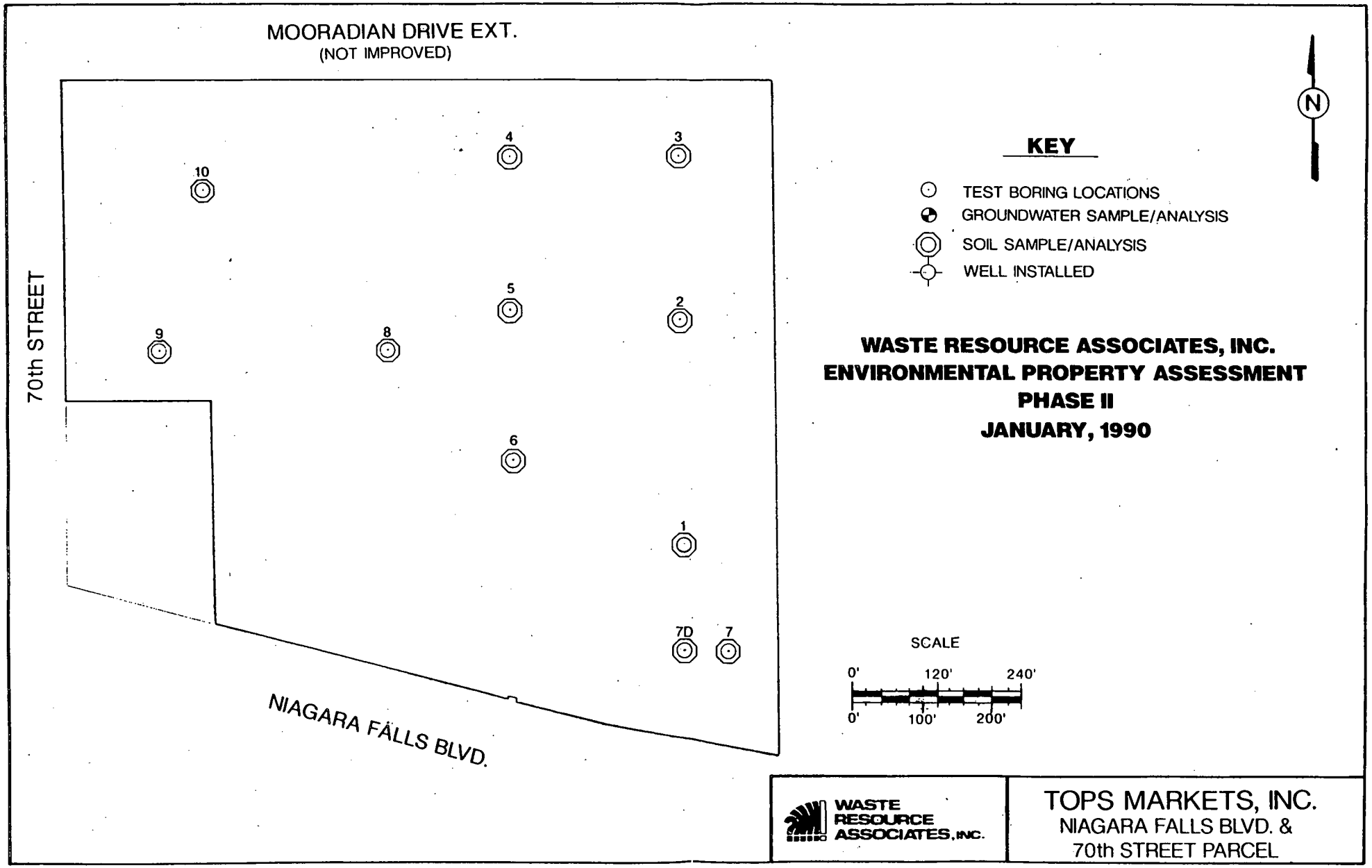
As a result of this testing, only two (2) "fill" samples were identified as having quantifiable levels of extractable organic halides (Boring - 2: 1.41 ppm, Boring - 10: 2.58 ppm). These concentrations do not, however, significantly exceed the quantifiable limit of 1.0 ppm for this test method.

A single, surface soil sample was taken just to the west of Boring - 7 in an area identified by the Waste Resource Associates, Inc. Phase I Investigation which was suspected to contain possible deposits of waste lime. A summary of the analytical testing and results for that sample are as follows;

56-0113

Test Parameter	Results
pH	12.5
Total Organic Carbon	38,000 ppm
Total Chlorinated Hydrocarbon Scan	Below Quantifiable Limits

56-0113



WASTE RESOURCE ASSOCIATES, INC.
ENVIRONMENTAL PROPERTY ASSESSMENT
PHASE II
JANUARY, 1990

WASTE RESOURCE ASSOCIATES, INC.

TOPS MARKETS, INC.
NIAGARA FALLS BLVD. &
70th STREET PARCEL

56-C-23

06

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ Kilogram or ppm
Client: WRA A.E.S. Job Code ENG

Analytical Parameter(s)	Method No.	Quant. Limits		AES Lab No.-	15185	15186	15187
			Sample ID -		PJS1 1A LAB COMP	PJS1 1B LAB COMP	PJS1 1C LAB COMP
			Sample Date-		12/13/89	12/13/89	12/13/89
Extractable Organic Halides (EOX)	DOR4-4	1.00			BQL *	BQL	BQL

* Below Quantifiable Limits

Wayne J. Juda
Organics Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ Kilogram or ppm
Client: WRA A.E.S. Job Code ENG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID -	15188 PJS1 2A	15189 PJS1 2B	15190 PJS1 2C
			Sample Date-	12/15/89	12/15/89	12/15/89
Extractable Organic Halides (EOX)	DOR4-4	1.00		1.41	BQL *	BQL

92

* Below Quantifiable Limits

Wayne J. Juda
Organics Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ Kilogram or ppm
Client: WRA A.E.S. Job Code ENG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID -	15191 PJS1 3A	15192 PJS1 3B	15193 PJS1 3C
			Sample Date-	12/15/89	12/15/89	12/15/89
Extractable Organic Halides (EOX)	DOR4-4	1.00		BQL *	BQL	BQL

93

* Below Quantifiable Limits

Wayne J. Juda
Organics Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ Kilogram or ppm
Client: WRA A.E.S. Job Code ENG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.-	15194	15195	15196
			Sample ID -	PJS2 4A	PJS2 4B	PJS2 4C
			Sample Date-	12/15/89	12/15/89	12/15/89
Extractable Organic Halides (EOX)	DOR4-4	1.00		BQL *	BQL	BQL

94

* Below Quantifiable Limits

Wayne J. Juda
Organics Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ Kilogram or ppm
Client: WRA A.E.S. Job Code ENG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.-	15197	15198	15199
			Sample ID -	PJS2 5A	PJS2 5B	PJS2 5C
			Sample Date-	12/15/89	12/15/89	12/15/89
Extractable Organic Halides (EOX)	DOR4-4	1.00		BQL *	BQL	BQL

95

* Below Quantifiable Limits

Wayne J. Juda
Organics Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ Kilogram or ppm
Client: WRA A.E.S. Job Code ENG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID -	15200 PJS2 6A	15201 PJS2 6B	15202 PJS2 6C
			Sample Date-	12/15/89	12/15/89	12/15/89
Extractable Organic Halides (EOX)	DOR4-4	1.00		BQL *	BQL	BQL

96

* Below Quantifiable Limits

Wayne J. Juda
Organics Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ Kilogram or ppm
Client: WRA A.E.S. Job Code ENG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID -	15203 PJS1 7A	15204 PJS1 7B	15205 PJS1 7C
			Sample Date-	12/15/89	12/15/89	12/15/89
Extractable Organic Halides (EOX)	DOR4-4	1.00		BQL *	BQL	BQL

97

* Below Quantifiable Limits

Wayne J. Juda
Organics Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ Kilogram or ppm
Client: WRA A.E.S. Job Code ENG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID -	15206 8A	15207 8B	15208 8C
			Sample Date-	12/16/89	12/16/89	12/16/89
Extractable Organic Halides (EOX)	DOR4-4	1.00		BQL *	BQL	BQL

86

* Below Quantifiable Limits

Wayne J. Juda
Organics Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ Kilogram or ppm
Client: WRA A.E.S. Job Code ENG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.-	15209	15210	15211
			Sample ID -	9A	9B	9C
			Sample Date-	12/16/89	12/16/89	12/16/89
Extractable Organic Halides (EOX)	DOR4-4	1.00		BQL *	BQL	BQL

99

* Below Quantifiable Limits

Wayne J. Juda
Organics Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ Kilogram or ppm
Client: WRA A.E.S. Job Code ENG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID -	15212 10A	15213 10B	15214 10C
			Sample Date-	12/16/89	12/16/89	12/16/89
Extractable Organic Halides (EOX)	DOR4-4	1.00		2.58	BQL *	BQL

100

* Below Quantifiable Limits

Wayne J. Juda
Organics Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: INORGANICS

Client: WRA A.E.S. JOB CODE ENG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No. - 15330 Sample ID - 7D PJS1 (3RD HOLE) GRAB Sample Date- 12/15/89
pH (Standard Units)	SW846 /9045	0.1	12.5
Total Organic Carbon (mg/l)	505B	100	38,000

101

M. Shauna Pandolfino
Inorganic Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ Kilogram or ppm (as received)
Client: WRA A.E.S. Job Code ENG

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- 15330 Sample ID - 7D (3RD HOLE) GRAB Sample Date- 12/15/89
Total Chlorinated Hydrocarbon Scan	310-17	5.0	BQL *

102

* Below Quantifiable Limits

Wayne J. Juda
Organics Supervisor

Waste Resource Associates, Inc.: Environmental Property Assessment
Precision Bicycles (2/91)

This site investigation was conducted at 7020 Niagara Falls Boulevard on a parcel of property which is currently owned by Precision Bicycles. The site is located immediately adjacent to the extreme southwest corner of the Tops property.

The scope-of-work for this investigation included three (3) soil borings, two of which were located adjacent to one another. A groundwater monitoring well was installed at one of the adjacent locations. The depth of test borings ranged from between ten (10) and fourteen (14) feet.

Soil

Composite soil samples were taken at two (2) soil boring locations and were subjected to analysis by the following analytical testing procedures;

- Extraction Procedure Toxicity (EPTOX) - Metals,
- PCBs/Pesticides,
- Polynuclear Aromatic Hydrocarbons (PNAs/PAHs).

EPTOX

There were no metallic constituents identified at levels which exceeded the maximum allowable concentration for this analytical testing procedure.

PCBs/Pesticides

The results from this test method showed that there were no detectable levels of any of the various pesticide compounds or PCB compounds.

56-0113

PNAs/PAHs

Analytical results indicated that the concentrations of those contaminants included in this testing protocol were all below quantifiable limits.

Groundwater

A groundwater sample taken from the monitoring well on-site was subjected to the following analytical tests;

- Extraction Procedure Toxicity (EPTOX) - Metals,
- PCBs/Pesticides,
- Polynuclear Aromatic Hydrocarbons (PNAs/PAHs),
- pH.

EPTOX

There were no metallic constituents identified at levels which exceeded the maximum allowable concentration for this analytical testing procedure.

PCBs/Pesticides

There were no PCBs or pesticides detected in the groundwater sample.

PNAs/PAHs

The results of this testing method detected the presence of Benzo(a)Anthracene at a level of 6.3 parts per billion (ppb). This concentration is only slightly above the quantifiable limit of 5 ppb for this analytical procedure and is not considered to be at a level of concern.

56-0113

pH

The groundwater sample had a pH of 6.9 (neutral - 7.0).

A sample of suspected waste lime material was taken at Boring - 1 - A (identified as sample 1-B) and was subjected to the following testing procedures;

- Extraction Procedure Toxicity (EPTOX) - Metals,
- Extractable Organic Halides (EOX),
- pH.

EPTOX

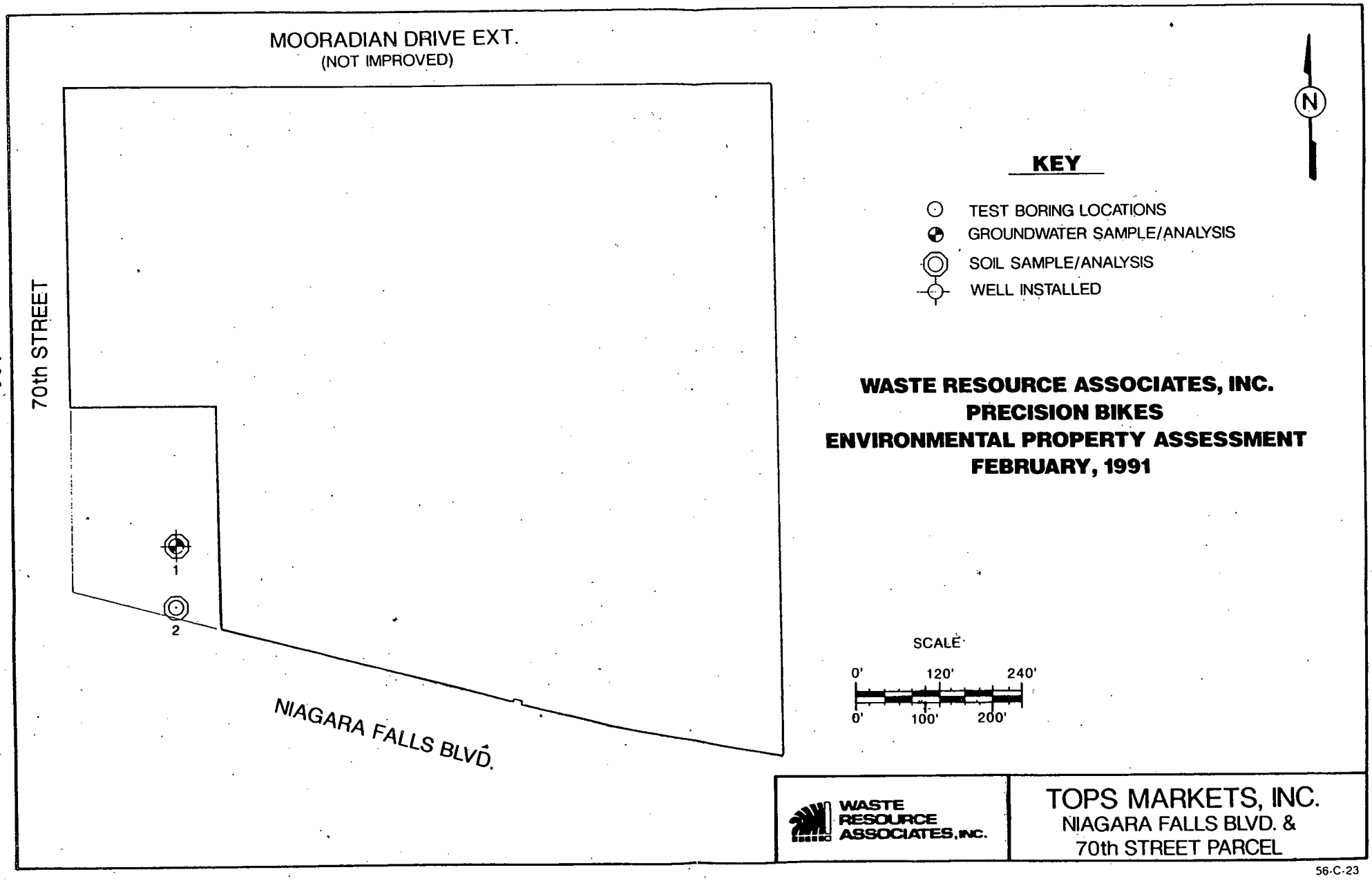
There were no constituents identified at levels which exceed the maximum allowable concentration for this testing procedure.

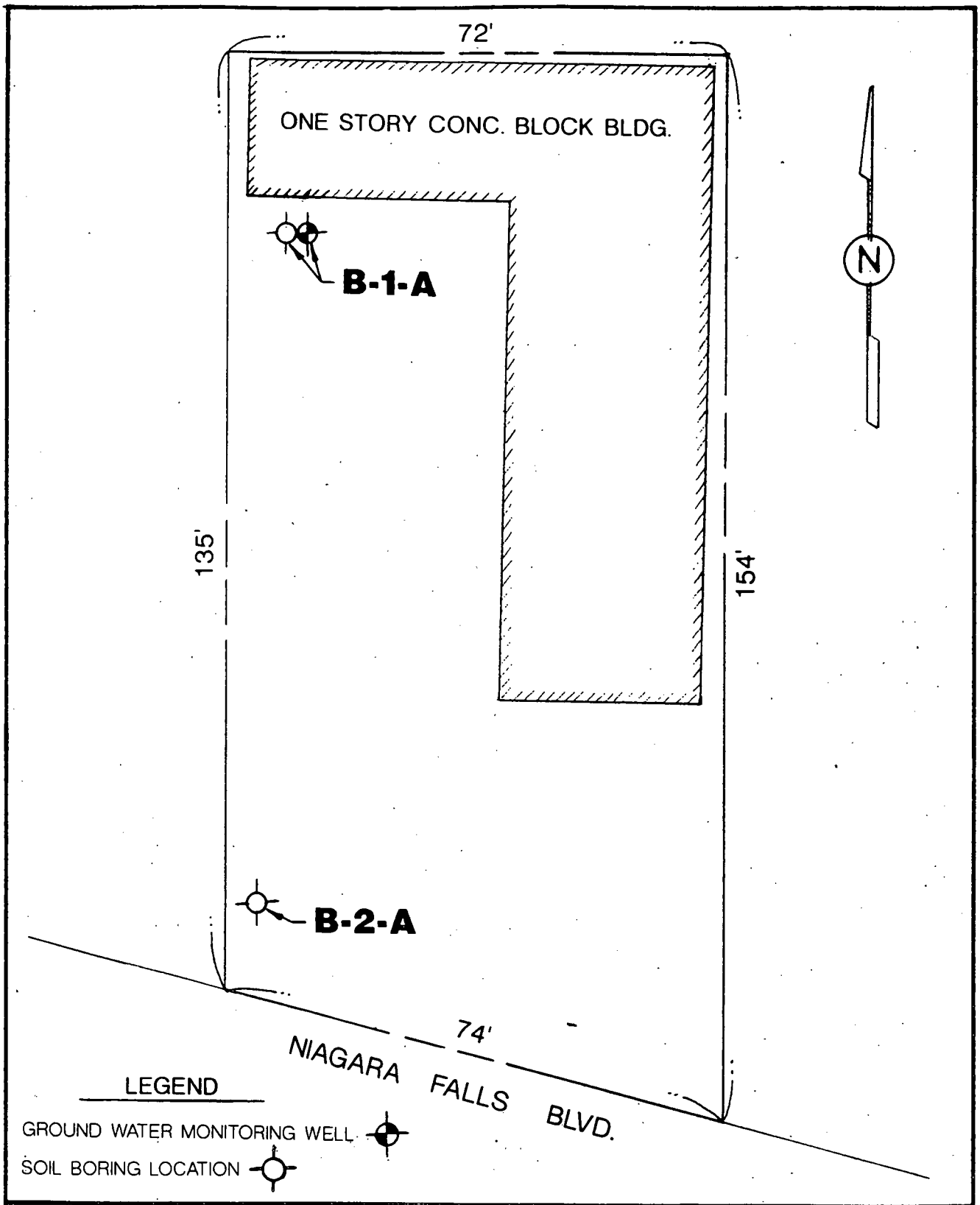
EOX

There were no detectable chlorinated hydrocarbons present in the sample.

pH

The pH result indicated that the sample was only slightly basic.


MOORADIAN DRIVE EXT.
(NOT IMPROVED)
70th STREET
NIAGARA FALLS BLVD.
1
2
N
KEY
TEST BORING LOCATIONS
GROUNDWATER SAMPLE/ANALYSIS
SOIL SAMPLE/ANALYSIS
WELL INSTALLED
WASTE RESOURCE ASSOCIATES, INC.
PRECISION BIKES
ENVIRONMENTAL PROPERTY ASSESSMENT
FEBRUARY, 1991
SCALE
0'
120'
240'
0'
100'
200'
WASTE RESOURCE ASSOCIATES, INC.
TOPS MARKETS, INC.
NIAGARA FALLS BLVD. &
70th STREET PARCEL
56-C-23



WASTE RESOURCE ASSOCIATES, INC.

SOIL BORING AND GROUND WATER MONITORING WELL LOCATIONS

89-C-23

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)
ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: Metals
Client: WRA A.E.S. Job Code FFJ

(All results are in mg/l)

Analysis	Method No.	Allowable Conc. (mg/l)	Quant. Limits	Analysis Date	A.E.S. Lab No.- Sample ID - 1285 3A,3B,3C MONIROTING WELL AT BLDG. GRAB 2/12/91	1286 1A COMP 2/11/91	1287 2A COMP 2/11/91	METHOD BLANK
Arsenic	7060	5.0	0.005	2/15/91	0.033	BQL *	BQL	BQL
Barium	7080	100.0	5.00	2/15/91	BQL	BQL	20.0	BQL
Cadmium	7130	1.0	0.04	2/14/91	BQL	BQL	BQL	BQL
Chromium	7190	5.0	0.50	2/14/91	BQL	BQL	BQL	BQL
Lead	7420	5.0	1.00	2/15/91	BQL	BQL	BQL	BQL
Mercury	7471	0.2	0.005	2/18/91	BQL	BQL	BQL	BQL
Selenium	7740	1.0	0.005	2/15/91	BQL	BQL	BQL	BQL
Silver	7760	5.0	0.10	2/14/91	BQL	BQL	BQL	BQL

108

* Below Quantifiable Limits

Gary L. Amato
Technical Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: POLYNUCLEAR AROMATIC HYDROCARBONS

Units of Measure: Milligrams/ Kilogram or ppm (as received)
Client: WRA A.E.S. Job Code FFJ

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID - / Sample Date-	1286 1-A COMP 2/11/91	1287 2-A COMP 2/11/91	METHOD BLANK 2/12/91
Acenaphthene	8100	0.50		BQL *	BQL	BQL
Acenaphthylene	"	"		"	"	"
Anthracene	"	1.00		"	"	"
Benzo(a)Anthracene	"	0.50		"	"	"
Benzo(a)Pyrene	"	"		"	"	"
Benzo(b)Fluoranthene	"	"		"	"	"
Benzo(k)Fluoranthene	"	"		"	"	"
Benzo(g,h,i)Perylene	"	"		"	"	"
Chrysene	"	1.00		"	"	"
Dibenzo(a,h)Anthracene	"	"		"	"	"
Fluoranthene	"	"		"	"	"
Fluorene	"	"		"	"	"
Indeno(1,2,3-c,d)Pyrene	"	1.00		"	"	"
Naphthalene	"	0.50		"	"	"
Phenanthrene	"	"		"	"	"
Pyrene	"	"		"	"	"

109

* Below Quantifiable Limits

Denise R. Tuhovak
Organics Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: POLYNUCLEAR AROMATIC HYDROCARBONS

Units of Measure: Micrograms/ liter or ppb
Client: WRA A.E.S. Job Code FFJ

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.-	1285	METHOD BLANK
			Sample ID -	3A, 3B, 3C MONITORING WELL AT BUILDING	
			Sample Date-	GRAB 2/12/91	2/13/91
Acenaphthene	8100	5.00		BQL *	BQL
Acenaphthylene	"	"		"	"
Anthracene	"	10.0		"	"
Benzo(a)Anthracene	"	5.00		6.23	"
Benzo(a)Pyrene	"	"		BQL	"
Benzo(b)Fluoranthene	"	"		"	"
Benzo(k)Fluoranthene	"	"		"	"
Benzo(g,h,i)Perylene	"	"		"	"
Chrysene	"	10.0		"	"
Dibenzo(a,h)Anthracene	"	5.00		"	"
Fluoranthene	"	"		"	"
Fluorene	"	"		"	"
Indeno(1,2,3-c,d)Pyrene	"	10.0		"	"
Naphthalene	"	5.00		"	"
Phenanthrene	"	"		"	"
Pyrene	"	"		"	"

* Below Quantifiable Limits

Denise R. Tuhovak
Organics Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: PCBs AND PESTICIDES

Units of Measure: Milligrams/ kilogram or ppm (Dry Weight)
Client: WRA A.E.S. Job Code FFJ

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- / Sample ID - / Sample Date-	1286 1-A COMP 2/11/91	1287 2-A COMP 2/11/91	METHOD BLANK 2/12/91
Aldrin	8080	0.010		BQL *	BQL	BQL
alpha-BHC	"	"		"	"	"
beta-BHC	"	"		"	"	"
gamma-BHC	"	"		"	"	"
delta-BHC	"	"		"	"	"
Chlordane	"	0.100		"	"	"
4,4'-DDT	"	0.020		"	"	"
4,4'-DDE	"	0.010		"	"	"
4,4'-DDD	"	"		"	"	"
Dieldrin	"	"		"	"	"
alpha-Endosulfan	"	"		"	"	"
beta-Endosulfan	"	"		"	"	"
Endosulfan Sulfate	"	0.020		"	"	"
Endrin	"	0.010		"	"	"
Endrin Aldehyde	"	0.020		"	"	"
Heptachlor	"	0.010		"	"	"
Heptachlor Epoxide	"	"		"	"	"
PCB-1242	"	0.100		"	"	"
PCB-1254	"	"		"	"	"
PCB-1221	"	"		"	"	"
PCB-1232	"	"		"	"	"
PCB-1248	"	"		"	"	"
PCB-1260	"	"		"	"	"
PCB-1016	"	"		"	"	"
Toxaphene	"	0.500		"	"	"

* Below Quantifiable Limits

Denise R. Tuhovak
Organics Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: PCBs AND PESTICIDES

Units of Measure: Micrograms/ liter or ppb
Client: WRA A.E.S. Job Code FFJ

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No.- 1285 METHOD BLANK Sample ID - 3A, 3B, 3C MONITORING WELL AT BUILDING Sample Date- GRAB 2/12/91
Aldrin	8080	0.10	BQL *
alpha-BHC	"	"	"
beta-BHC	"	"	"
gamma-BHC	"	"	"
delta-BHC	"	"	"
Chlordane	"	1.00	"
4,4'-DDT	"	0.20	"
4,4'-DDE	"	0.10	"
4,4'-DDD	"	"	"
Dieldrin	"	"	"
alpha-Endosulfan	"	"	"
beta-Endosulfan	"	"	"
Endosulfan Sulfate	"	0.20	"
Endrin	"	0.10	"
Endrin Aldehyde	"	0.20	"
Heptachlor	"	0.10	"
Heptachlor Epoxide	"	"	"
PCB-1242	"	1.00	"
PCB-1254	"	"	"
PCB-1221	"	"	"
PCB-1232	"	"	"
PCB-1248	"	"	"
PCB-1260	"	"	"
PCB-1016	"	"	"
Toxaphene	"	5.00	"

Denise R. Tuhovak
Organics Supervisor

* Below Quantifiable Limits

EXTRACTION PROCEDURE TOXICITY - METALS (E.P.)

ADVANCED ENVIRONMENTAL SERVICES, INC.

LABORATORY REPORT

Type of Analysis: Metals

Client: WRA A.E.S. Job Code FFJ

(All results are in mg/l)

					A.E.S. Lab No.-	1288	METHOD
					Sample ID -	1B	BLANK
Analysis	Method No.	Allowable Conc. (mg/l)	Quant. Limits	Analysis Date		COMP 2/11/91	
Arsenic	7060	5.0	0.005	2/15/91		BQL *	BQL
Barium	7080	100.0	5.00	2/15/91		16.6	BQL
Cadmium	7130	1.0	0.04	2/14/91		BQL	BQL
Chromium	7190	5.0	0.50	2/14/91		BQL	BQL
Lead	7420	5.0	1.00	2/15/91		1.93	BQL
Mercury	7471	0.2	0.005	2/18/91		BQL	BQL
Selenium	7740	1.0	0.005	2/15/91		BQL	BQL
Silver	7760	5.0	0.10	2/14/91		BQL	BQL

Gary L Amato

Gary L. Amato
Technical Supervisor

* Below Quantifiable Limits

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: ORGANICS

Units of Measure: Milligrams/ kilogram or ppm
Client: WRA A.E.S. Job Code FFJ

Analytical Parameter(s)	Method No.	Detection Limits	AES Lab No.-	1288	METHOD BLANK
			Sample ID -	1-B COMP	
			Sample Date-	2/11/91	2/11/91
EOX	DOR 4-4C	1.0		ND *	ND

114

* None Detected

Denise R. Tuhovak
Organics Supervisor

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY REPORT

Type of Analysis: INORGANICS

Client: WRA A.E.S. JOB CODE FFJ

Analytical Parameter(s)	Method No.	Quant. Limits	AES Lab No. -	1285	1288	METHOD BLANK
			Sample ID -	3A, 3B, 3C MONITORING WELL AT BUILDING	1B COMP	
			Sample Date-	GRAB 2/12/91	2/11/91	2/12/91
pH (Standard Units)	150.1	0.1		6.9	N/R *	5.2
Corrosivity pH (Std. Units)	9045	0.1		N/R	7.8	---

* Not Requested

Gary L. Amato
Technical Supervisor

Conclusions

The 64th Street North Inactive Hazardous Waste Disposal Site has been identified by the New York State Department of Environmental Conservation (NYSDEC) and is classified as a 2A site. This is a temporary classification category which indicates that inadequate and/or insufficient data exists to place the site in any of the other classifications. A portion of the Tops Markets, Inc. property is included in this site.

A Phase I Investigation of the 64th Street site was performed and submitted to NYSDEC in 1988. The Phase I report summarized the findings of various investigations that were undertaken at the site and included the following descriptive statements;

- Although the site was landfilled with municipal and commercial waste (possibly including some construction/demolition debris), disposal of industrial wastes is not suspected.
- Soil testing by the USGS in 1982 did not detect any constituents at levels significantly above what would be considered normal background levels.
- Soil testing by NUS Corp. in 1985 identified only two (2) inorganic constituents at concentrations above local soil background levels.
- Various organic constituents, primarily polycyclic aromatic hydrocarbons (PAHs), have been detected in soil samples. This is not uncommon for soils in urban areas where asphalt paved areas are prevalent. The Phase I Investigation for the 64th Street North Site states that 60-70 percent of the site is now covered by either pavement or buildings.
- Soil samples were taken by Woodward-Clyde Consultants in 1986 along the northern boundary of 64th Street North Site in support of a pipeline installation project by Texas Brine Corporation. The results of analytical testing showed that excess soil from the pipeline right-of-way could be considered to be free of contamination for purposes of disposal.

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- Analysis of a groundwater sample taken downgradient of the site by USGS in 1985 did not identify any constituents which significantly exceeded the NYS Class GA groundwater standards.

The Tops Markets, Inc. property is located at the extreme southeastern corner of the 64th Street North Site. Numerous and extensive site investigations have been conducted at both the Tops parcel and adjacent properties. Figure 16 is a map which shows the locations of testing sites associated with these investigations including;

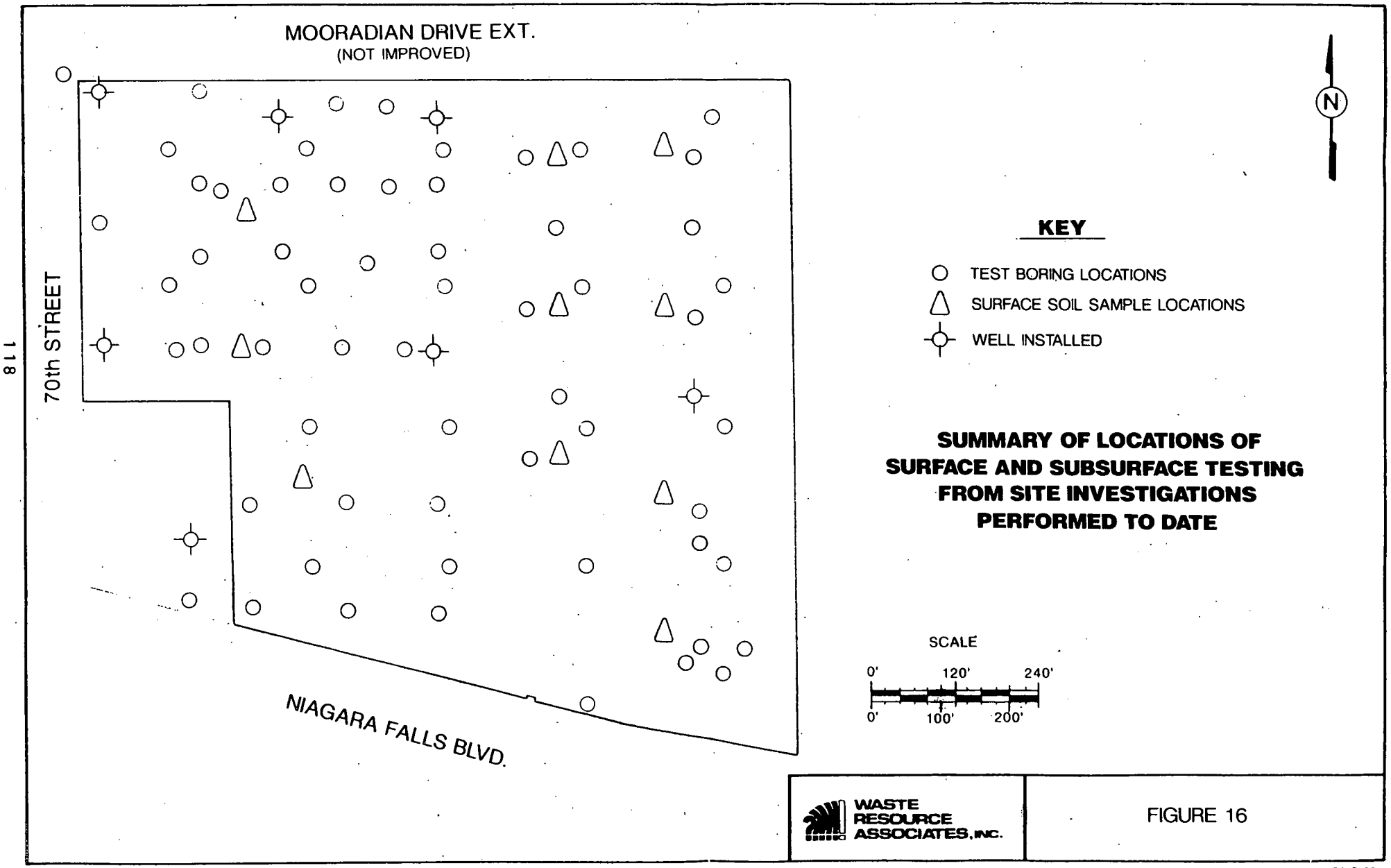
- sixty-seven (67) soil borings,
- eleven (11) surface sampling sites, and,
- seven (7) groundwater monitoring wells.

Laboratory analysis of samples taken at these sites has included;

- sixty (60) subsurface soil samples,
- eleven (11) surface soil samples, and,
- six (6) groundwater samples.

The results of the various site investigations have shown that the Tops parcel has been extensively backfilled with construction/ demolition debris. This material exists across the site at an average depth of between three (3) to five (5) feet.

The comprehensive analytical data which has been derived from testing of soil and groundwater samples has not identified levels of contaminants which could be considered as significantly elevated when compared to normal background levels with the possible exception of the mercury contamination which was detected in a few locations. The contaminants which have been identified are primarily concentrated in the "fill" material. Analysis of the underlying "soil" samples has shown that constituents detected in



WASTE RESOURCE ASSOCIATES, INC.

FIGURE 16

56-C-23

the "fill" samples are either not present or are at extremely low concentrations in the corresponding "soil" sample. These results are indicative of extremely limited vertical contaminant migration and substantiate the fact that the indigenous soil is acting as a confining layer on the site. Subsurface soil borings have identified an extensive clay layer which underlies not only the Tops parcel but much of the surrounding property. The presence of local wetland areas confirms the impermeable nature of the indigenous soils.

The results of TCLP testing of metallic constituents in the "fill" samples further substantiates the fact that the mercury compounds found to be present are in an insoluble form which limits their mobility and migration into groundwaters on the site. The table which follows shows that for the TCLP testing conducted for metallic constituents and the analytical testing conducted on soil samples for the various TCLP organic constituents, neither metallic or organic contaminants come anywhere near approaching concentration levels designated as "hazardous" under the TCLP concentration criteria. Only one parameter, Chlordane in the testing conducted for PCBs/Pesticides under Method 8080 exceeded the TCLP level in only one of the samples tested (Sample B-16-1). It should be noted however that the extract developed for Method 8080 analysis was the result of an extraction of the soil sample with an organic solvent which more aggressively and completely removes any hydrocarbon contaminants from the soil. If an aqueous extract were to be developed for that soil sample for subsequent TCLP analysis, it is extremely unlikely that the Chlordane concentration would exceed the 0.03 mg/l regulatory limit.

On the basis of all previous studies conducted on and around the Tops Markets parcel and the most recent, intensive sub-surface investigation conducted on the property, the levels of contamination identified do not pose a threat to human health or the environment and de-listing of the Tops Markets parcel should be granted so that development of the proposed supermarket facility can proceed.

Testing Results for TCLP Constituents

	TCLP Regulatory Level (mg/l)	Test Method Quantification Limit (mg/l)	TCLP Testing Results (mg/l)
INORGANICS			
Arsenic	5.0	0.005	BQL*
Barium	100.0	5.0	BQL*
Cadmium	1.0	0.04	BQL*
Chromium	5.0	0.5	BQL*
Lead	5.0	1.0	BQL*
Mercury	0.2	0.001	0.0027
Selenium	1.0	0.005	BQL*
Silver	5.0	0.1	BQL*

	TCLP Regulatory Level (mg/l)	Test Method Quantification Limit (mg/kg)	Test Results SW-846 Method 8240 (mg/kg)
VOLATILE ORGANICS			
Benzene	0.5	0.005	ND**
Carbon Tetrachloride	0.5	"	ND**
Chlorobenzene	100	"	BQL*
Chloroform	6.0	"	0.0068 (one sample)
1,2-Dichloroethane	0.5	"	ND**
1,1-Dichloroethylene	0.7	"	ND**
Tetrachloroethylene	0.7	"	BQL*
Trichloroethylene	0.5	"	ND**

BQL*: Below Quantifiable Limits

ND**: Not Detected

56-0113

	TCLP Regulatory Level (mg/l)	Test Method Quantification Limit (mg/kg)	Test Results SW-846 Method 8270 (mg/kg)
SEMIVOLATILE ORGANICS			
1,4-Dichlorobenzene	7.5	0.01	ND**
Hexachlorobenzene	0.13	"	ND**
Hexachloro-1,3-butadiene	0.5	"	ND**
Hexachloroethane	3.0	"	ND**
Nitrobenzene	2.0	"	ND**
Pentachlorophenol	100	0.05	ND**
2,4,5-Trichlorophenol	400	0.01	ND**
2,4,6-Trichlorophenol	2.0	"	ND**

	TCLP Regulatory Level (mg/l)	Test Method Quantification Limit (mg/kg)	Test Results SW-846 Method 8080 (mg/kg)
PCBs/PESTICIDES			
Chlordane	0.03	0.07	0.106 (one sample)[1]
Endrin	0.02	0.014	ND**
Heptachlor	0.008	0.007	ND**
Lindane	0.40	0.007	ND**
Methoxychlor	10.00	0.07	ND**
Toxaphene	0.50	0.68	ND**

BQL*: Below quantifiable limits

ND**: Not Detected

[1] Method 8080 protocols require extract preparation using an organic solvent which removes hydrocarbon contaminants more thoroughly than the aqueous extraction procedure utilized for TCLP analysis.

56-0113

Exhibit 1

Soil Boring Logs

DATE
STARTED
FINISHED 6/19/91
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-1
SURF. ELEV.
G. W. DEPTH 4.0'

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH	SAMPLE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			2	1				Gray-brn clayey SILT, tr. sand,brick shingle (moist-wet,FILL)	
			2	1		3	0.3		
			1	1				Gray-Tan-Orange mottled silty CLAY tr. sand, occ. silt (moist,soft,CL)	
			3	7		4	0.3		
5			4	3				Gray,Brn SILT Some f. sand (wet,ML) Red-Brn Silty CLAY tr. sand 5.7-6.0' (moist,cl)	
			8	7		11	0.3		
10								Boring complete @ 6.0'	
								Samples: B-1-1 0'-2' B-1-2 2'-6'	
								FSW @ 4.0' @ B.C.	
									Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb pin wt falling 30 " per blow

( ) No. blows to drive ___ " casing ___ with ___ lb weight falling ___ " per blow

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

DATE
STARTED _____
FINISHED 6/19/91
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-2
SURF. ELEV. _____
G. W. DEPTH _____

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH	SAMPLE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0									
			6	18				Brn. clayey SILT, little f-c sand tr. crushed stone, cinders (moist, FILL)	
			17	9		35	0.3	red-brn silty CLAY (FILL) 1.8'-2.1'	
			9	9				Brn-gray SILT, little-some f-sand	
			7	9		16	0.3	tr. CLAY (wet, ML)	
5			4	5				Gray, tan, orange mottled silty CLAY	
			5	9		10	0.3	tr. sand (moist, CL)	
10								Boring complete @ 6.0'	
								Samples: B-2-1 0'-2.5'	
								B-2-2 2.5'-6.0'	
								No FSW @ B.C.	
									Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt falling 30 " per blow

( ) No. blows to drive _____ " casing _____ " with _____ lb weight falling _____ " per blow

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METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

B.T. Form H

DATE STARTED _____ FINISHED 6/19/91 SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-3
SURF. ELEV. _____
G. W. DEPTH _____

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH	SAMPLE	SAMPLE #	SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			10	14				Brn,gray clayey silt,slag tr. metal little concrete, (moist,FILL)	
			30	61		44	0.3		
			9	4				Brn-gray clayey SILT, little f. sand (moist,med.,ML)	poor recovery
			3	5		7	0.3		
5			3	3				Tan,gray,orange mottled,silty CLAY tr. sand (moist,med.,CL)	
			6	5		9	0.3		
								Boring complete @ 6.0'	
10								Samples: B-3-1 0'-2.0' B-3-2 2.0'-6.0'	
								No FSW @ B.C.	
									Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt falling 30 "per blow

( ) = No. blows to drive _____ " casing with _____ lb weight falling _____ "per blow

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

DATE
STARTED 6/18/91
FINISHED 6/18/91
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-4
SURF. ELEV.
G. W. DEPTH

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH-FT	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			3	15				Brown/gray sandy CLAY, abundant (fill) concrete, brick and slag fragments	rec: 1.0'
			15	8		30	0.3		
			7	13				Dark brown silty Clay, tr. cinders, asphalt and brick fragments, (fill) white lime @ 4.0'	rec: 1.0'
			4	3		17	0.3		
5			5	2				Brick frag. (fill) to 4.5' Brown clayey SAND from 4.5'-5.0' Lt. brown CLAY, hard, dry 5.0'-6.0'	rec: 2.0'
			5	7		7	0.3		
10								Boring complete @ 6.0' Samples: B-4-1 0'-4' B-4-2 4'-6'	

Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 "per blow.

C = No. blows to drive _____ " casing _____ " with _____ lb. weight falling _____ "per blow.

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION: ASTM D-1586 Using Hollow Stem Augers

B/T Form H

DATE
STARTED 6/18/91
FINISHED 6/18/91
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-5
SURF. ELEV.
G. W. DEPTH

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH-FT.	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			16	21				Predom. LS gravel 0'-1' (fill)	
			22	17		43	0.3	Gray/green CLAY, hard, dry Abun. frags. concrete,glass,cinders	rec: 2.0'
			9	4				CLAY and gravel A/A (fill)	1st spoon- no recovery moved 2'- rec: 0.5'
			4	3		8	0.3		
5			1	-				Silty/sandy CLAY wet,soft	
			1	1		1	0.3	Rnd/ang gravel inc. (fill to 4.5')	rec: 1.0'
			1	2				Wet SAND, small pebbles inc. 6.0'-7.0'	
			2	5		4	0.3	Gray CLAY, hard,stiff 7.0'-8.0'	rec: 2.0'
10								Boring complete @ 8.0'	
								Samples: B-5-1 0'-4.5' B-5-2 4.5'-8.0'	
								Note: The groundsurface in the area of B-5 is littered with fragments of concrete, brick, wood, glass, etc.(c+d debris)	

Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 "per blow.

C = No blows to drive _____ " casing _____ " with _____ lb. weight falling _____ "per blow.

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METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

B/T Form H

DATE
STARTED
FINISHED 6/19/91
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. **SUBSURFACE LOG**

HOLE NO. B-6
SURF. ELEV.
G W DEPTH

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH	SAMPLE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			1	4				Brn-gray clayey SILT, tr. sand, wood, crushed stone (moist, FILL)	PID 3-5 ppm near wood in spoon #1 (creosote?)
			4	1		8	3-5		
			2	2				Tan, gray, org. mottled clayey SILT tr. sand (moist, soft, ML) little f.sand occ. silty clay seams (moist-wet, med.)	
			3	3		5	0.3		
5			3	4				Red-brn. silty CLAY tr. sand (moist, CL)	
			8	9		12	0.3		
								Boring complete @ 6.0'	
10								Samples: B-6-1 0'-2.0' B-6-2 2.0'-6.0'	
								No FSW @ B.C.	
									Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 "per blow CLASSIFICATION Visual By Geologist

" spoon " with lb. weight falling "per blow

METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

R.I. Form H

DATE
STARTED 6/18/91
FINISHED 6/18/91
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-7
SURF. ELEV.
G. W. DEPTH

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH-FT	SAMPLES	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			10	50				Gravel (fill) dolo.,LS,chert, brick frag., tr. CLAY, tr. cinders	
			16	28		66	0.3		rec: 1.5'
			5	5				Dk. brown/Dk. gray SILT+SAND (fill) Abun. stone and wood frags.	1st+2cnd spoons- no rec. move 2'
			7	6		12	0.3		3rd spoon- rec: 0.75'
5			4	7				A/A to 4.5' (fill) Gray/green sandy CLAY 4.5'-5.5'	
			6	6		13	0.3	Brown CLAY, hard, to 6.0'	rec: 1.5'
								Boring complete @ 6.0'	
10								Samples: B-7-1 0'-4.0' B-7-2 4.0'-6.0'	

Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 "per blow.

C = No blows to drive _____ " casing _____ " with _____ lb. weight falling _____ "per blow.

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METHOD OF INVESTIGATION: ASTM D-1586 Using Hollow Stem Augers

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STARTED 6/18/91
FINISHED 6/18/91
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. — SUBSURFACE LOG

HOLE NO. B-8
SURF. ELEV.
G. W. DEPTH

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH-FT	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			2	7				Gray/lt. brown silty CLAY, LS gravel and brick frags. inc., (fill)	rec: 1.0'
			9	9		16	0.3		
			6	3				Dk. gray fill A/A to 3.5', Lt. brown yellow F Gn Sand. moist, 3.5'-4.0'	rec: 1.5'
			6	6		9	0.3		
5			6	4				Lt. Brown-Gray/Grn CLAY (hard) sli miost w/plant roots inc.	rec: 2.0'
			5	6		9	0.3		
10								Boring complete @ 6.0' Samples: B-8-1 0'-4.0' B-8-2 4.0'-6.0'	Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 "per blow.

C = No. blows to drive ____ " casing ____ " with ____ lb. weight falling ____ "per blow.

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METHOD OF INVESTIGATION: ASTM D-1586 Using Hollow Stem Augers

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DATE
STARTED 6/18/91
FINISHED 6/18/91
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-9
SURF. ELEV.
G. W. DEPTH

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH-FT	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			5	17				(fill) V fragmented LS+DOLO. gravel tr. silty CLAY, tr.tar	Rec: 1.0'
			19	21		36	0.3		
			20	6				Brown/gray silty CLAY @3.5' (fill) tr. SAND, tr. tar paper/asphalt	rec: 1.0'
			8	9		14	0.3		
5			2	2				Clayey SAND w/tr. silt gray/grn hard CLAY @ 5.5'	rec: 2.0'
			5	7		7	0.3		
10								Boring complete @ 6.0' Samples: B-9-1 0'-4.0' B-9-2 4.0'-6.0'	Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 "per blow.

C = No. blows to drive _____ " casing _____ " with _____ lb. weight falling _____ "per blow.

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METHOD OF INVESTIGATION: ASTM D-1586 Using Hollow Stem Augers

R/T Form H

DATE
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FINISHED 6/18/91
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EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-10
SURF. ELEV.
G. W. DEPTH 5.5'

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH-FT	SAMPLES	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			4	3				Brown/Lt Brwn Silt LOAM, frags. of concrete, brick, cinders, DOLO. gravel, tr. red Clay (fill)	rec: 1.5'
			9	10		12	0.3		
			43	25				Fill A/A, frags. of roofing shingles glassy, tar-like waffers	rec: 1.0
			9	7		34	0.3		
5			3	1				fill to 4.5', gray clayey SAND to 5.5' gray/brown CLAY @5.5' hard,dry	rec: 2.0'
			1	5		2	0.3		
			5	4				gray/lt brn f-m gn SAND, v wet	
			6	12		10	0.3	gray CLAY, wet, stiff	rec: 2.0'
10								Boring Complete @ 8.0'	
								Samples: B-10-1 0'-4.5'	
								B-10-2 4.5'-8.0'	
								FSW @ 5.5'	
									Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 "per blow.

C = No. blows to drive _____ " casing _____ " with _____ lb. weight falling _____ "per blow.

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

R/T Form H

DATE
STARTED
FINISHED 6/17/91
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-11
SURF. ELEV.
G. W. DEPTH

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH	SAMPLE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			1	1				Brn. clayey SILT tr. wood,sand (moist-wet,FILL)	poor recovery (2 attempts)
			1	1		2	0.3		
			3	3				Tan-org. mottled clayey SILT, some f. sand (miost-wet,med.,ML)	
			5	5		8	0.3		
5								Boring complete @ 4.0'	
								Samples: B-11-1 0'-2.0'	
								B-11-2 2.0'-4.0'	
								No FSW @ B.C.	
10									Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt falling 30 "per blow

(N) = No. blows to drive casing " with lb. weight falling "per blow

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

B.I. Form H

DATE
STARTED 6/18/91
FINISHED 6/18/91
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-12
SURF. ELEV.
G. W. DEPTH 4.5'

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH-FT	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			2	6				Lt. gray/ brn CLAY hard, dry (fill)	
			6	9		12	0.3	tr. cinders, glass, wood frags.	rec: 1.5'
			6	5				fill A/A to 2.5', lt. brn clayey	
			5	7		10	0.3	SILT to 3.5', Clay hard, dry 3.5'-4'	rec: 1.5'
			4	4				Blue/gray CLAY hard to 5.0'	
5			7	8		11	0.3	lt. brn clayey SAND, f gn, moist to 6'	
								Boring complete @ 6.0'	
10								Samples: B-12-1 0'-2.0'	
								B-12-2 2.0'-6.0'	
								FSW @ 4.5'	
									Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 "per blow.

C = No. blows to drive ____ " casing ____ " with ____ lb. weight falling ____ "per blow.

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

B/T Form H

DATE
STARTED 6/18/91
FINISHED 6/18/91
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-13
SURF. ELEV.
G. W. DEPTH

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH-FT	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			3	5				Red/brn silty CLAY, frags. of wood, cinders, glass, brick tr. rust stain in FILL	rec: 1.5'
			5	6		10	0.3		
			3	16				Silty CLAY wet, concrete + brick blue/gray CLAY @ 4.0' (fill)	rec: 1.0'
			9	4		25	0.3		
5			3	5				Fill A/A to 4.5', lt brn CLAY, hard @ 4.5'-5.0' m-f gn wet clayey SAND @ 5.0'-6.0'	rec: 2.0'
			5	9		10	0.3		
10								Boring complete @ 6.0'	
								Samples: B-13-1 0'- 4.5'	
								B-13-2 4.5'-6.0'	

Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 "per blow.

C = No. blows to drive ____ " casing ____ " with ____ lb. weight falling ____ "per blow.

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION: ASTM D-1586 Using Hollow Stem Augers

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STARTED 6/18/91
FINISHED 6/18/91
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-14
SURF. ELEV.
G. W. DEPTH

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH-FT	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			5	11				Lt. brn/red CLAY hard,dry	rec: 2.0'
			12	13		33	0.3	tr. gravel/asphalt (fill)	
			5	5				V dk brn silty CLAY to 3.0'	rec: 1.5'
			7	8		12	0.3	lt. brn silty CLAY to 4' (fill)	
			3	3				tr. gravel	1st spoon- no rec.
5			4	4		7	0.3	Gray/grn sandy CLAY to 5.0'	move 2' rec: 1.0'
			4	5				m-f gn, w srtd SAND to 6.0'	
			7	7		12	0.3	layers of SAND + CLAY gray/grn,hard	rec: 2.0'
								CLAY to 7.0', wet SAND 7.0'-8.0'	
10									
								Boring complete @ 8.0'	
								Samples: B-14-1 0'- 5.0'	
								B-14-2 5.0'-8.0'	
									Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 "per blow.

C = No. blows to drive _____ " casing _____ " with _____ lb. weight falling _____ "per blow.

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION: ASTM D-1586 Using Hollow Stem Augers

R/T Form H

DATE
STARTED
FINISHED 6/17/91
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-15
SURF. ELEV.
G. W. DEPTH 4.2'

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH	SAMPLE	SAMPLE NO.	BLOWS ON SAMPLER 0"/6"	6"/12"	12"/18"	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			5	50				Dark brn. clayey SILT, little f.-m. gravel, tr. sand, conc. (moist, Fill)	rec: 1.0'
			16	19		66	0.3		
			16	34				contains few concrete frags. only	poor recovery
			17	9		51	0.3		
5			7	3				Gray clayey SILT, tr.-little f. sand moist-wet @5.5', occ. blk. incs. little-some f. sand, 5.5'-6.0' (moist-wet, med., ML)	
			4	4		7	0.3		
			5	7					
			12	13		19	0.3	Red-brn silty ClAY, tr. sand (moist, hard, CL)	
10								Dark gray material from 4.0'-7.0' may be former swamp-type deposit	
								Boring complete @ 8.0'	
								Samples: B-15-1 0'-4.0' B-15-2 4.0'-8.0'	
								FSW @ 4.2' @ B.C.	
									Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt falling 30 " per blow

( ) = No. blows to drive casing " with lb. weight falling " per blow

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

B-1 Form H

DATE STARTED _____ FINISHED 6/17/91 SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-16 SURF. ELEV. _____ G. W. DEPTH 9.5'

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St. Niagara Falls, New York

DEPTH	SAMPLE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			9	12				Brn. clayey SILT, little f.sand, tr. gravel, cinders (moist, FILL)	
			13	15		25	0.3		
			13	12				becomes black, contains some f.sand	
			11	12		23	0.3		
5			9	7				Contains "and" f.sand, tr. brick, becomes wet @ 5.8' tr. wood	
			4	3		11	0.3		
			7	3				Gray clayey silt, little f.sand, tr. roots (moist-wet, ML)	
			3	3		6	0.3		
			5	9				Gray silty CLAY, tr. sand (moist, CL) becomes red-brn @ 9.0'	
10			11	11		20	0.3		
								Boring complete @ 10.0'	
								Samples: B-16-1 0'-7.0'	
								B-16-2 7.0'-10.0'	
								Tr. water inside augers @ B.C.	
									Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 " per blow

" = No. blows to drive _____ " casing _____ with _____ lb. weight falling _____ " per blow

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

B-1 Form H

DATE STARTED _____ FINISHED 6/17/91 SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-17 SURF. ELEV. _____ G. W. DEPTH _____

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St. Niagara Falls, New York

DEPTH	SAMPLE #	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			3	8				Brn. clayey SILT, tr. glass, cinders tr. sand (moist, FILL)	
			8	25		16	0.3		
			6	5				Tan-brn. clayey SILT, little f.sand, (moist, med., ML)	
			3	4		8	0.3		
5			4	2				becomes brn-org mottled, contains gray silty clay seams 5.2'-5.8', moist-wet @ 4.8'	
			4	9		6	0.3		
10								Boring complete @ 6.0'	
								Samples: B-17-1 0'-2.0'	
								B-17-2 2.0'-6.0'	
								No FSW @ BC	
									Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt falling 30 " per blow

( ) = No. blows to drive ____ " casing ____ " with ____ lb weight falling ____ " per blow

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

DATE
STARTED
FINISHED 6/17/91
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-18
SURF. ELEV.
G. W. DEPTH

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH	SAMPLE #	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			3	7				Red-brn silty CLAY, tr. sand, cinders (moist, FILL)	
			9	11		16	0.3		
			3	6				Tan, org., gray mottled clayey SILT, little f.sand (moist, med., ML)	
			5	7		11	0.3		
5			3	4				Gray.tan, org. mottled silty clay, tr.sand (moist, med., CL)	
			5	7		9	0.3		
10								Boring complete @ 6.0'	
								Samples: B-18-1 0'-2.0'	
								B-18-2 2.0'-6.0'	
								No FSW @ B.C.	
									Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt falling 30 " per blow

No. blows to drive casing " with lb. weight falling " per blow

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

DATE
STARTED
FINISHED 6/17/91
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-19
SURF. ELEV.
G. W. DEPTH

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH	SAMPLES	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			7	15				Brn. clayey SILT and crushed LS gravel little f.-m. sand (Moist,FILL)	
			15	15		30	0.3		
			7	3				Tan,brn.,blk. cinders, f.-m. sand Lime(?) (moist,FILL)	
			3	5		6	0.3		
5			2	2				Tan,gray,org. mottled clayey SILT little f.sand, (wet,soft,ML)	
			2	3		4	0.3		
			2	3				Tan,gray silty fine SAND (wet,loose,SM)	
			3	3		6	0.3		
10								Boring complete @ 8.0'	
								Samples: B-19-1 0'-4.0'	
								B-19-2 4.0'-8.0'	
								No FSW @ B.C.	
									Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 " per blow

( ) No. blows to drive ... " casing ... with ... lb. weight falling ... " per blow

CLASSIFICATION Visual By Geologist

METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

DATE STARTED _____ FINISHED 6/17/91 SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. B-20
SURF. ELEV. _____
G. W. DEPTH _____

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH	SAMPLE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0			9	11				Tan-brn clayey SILT, tr. sand, gravel asphalt, (moist, FILL)	Slag has sli. odor
			11	23		22	0.3		
			21	20				Blue-gray SLAG, little clayey SILT (moist, FILL)	no recovery move 2', rec: 1.0'
			11	10		31	0.3		
5			7	5				Tan-brn. clayey SILT, tr. sand (moist, ML) contains gray mottling, silty clay 5.2'-6.0'	
			7	8		12	0.3		
10								Boring complete @ 6.0'	
								Samples: B-20-1 0'-3.0' B-20-2 3.0'-6.0'	
								No FSW @ B.C.	
									Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No. blows to drive 2" spoon 12" with 140 lb pin wt falling 30" per blow

( ) = No. blows to drive ____ casing ____" with ____ lb weight falling ____" per blow

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METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

B-1 Form

DATE
STARTED _____
FINISHED _____
SHEET 1 OF 1

EMPIRE
SOILS INVESTIGATIONS INC.

SUBSURFACE LOG

HOLE NO. _____
SURF. ELEV. _____
G. W. DEPTH _____

PROJECT TOPS Markets, Inc.

LOCATION Niagara Falls Blvd. & 70th St.
Niagara Falls, New York

DEPTH-FT	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
0									
5									
10									

Organic Vapors Measured With Photo-ionization Detector (PID). Measurements Are Recorded In Parts Per Million (ppm).

N = No blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 "per blow.

C = No blows to drive _____ " casing _____ " with _____ lb. weight falling _____ "per blow.

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METHOD OF INVESTIGATION ASTM D-1586 Using Hollow Stem Augers

R/T Form H

Exhibit 2

Photo Documentation



Photo No. 1
Boring B-15



Photo No. 2
Logging B-15



Photo No. 3
Logging B-15



Photo No. 4
Boring B-16



Photo No. 5
Logging B-16



Photo No. 6
Logging B-16



Photo No. 7
Boring B-17



Photo No. 8
Logging B-17

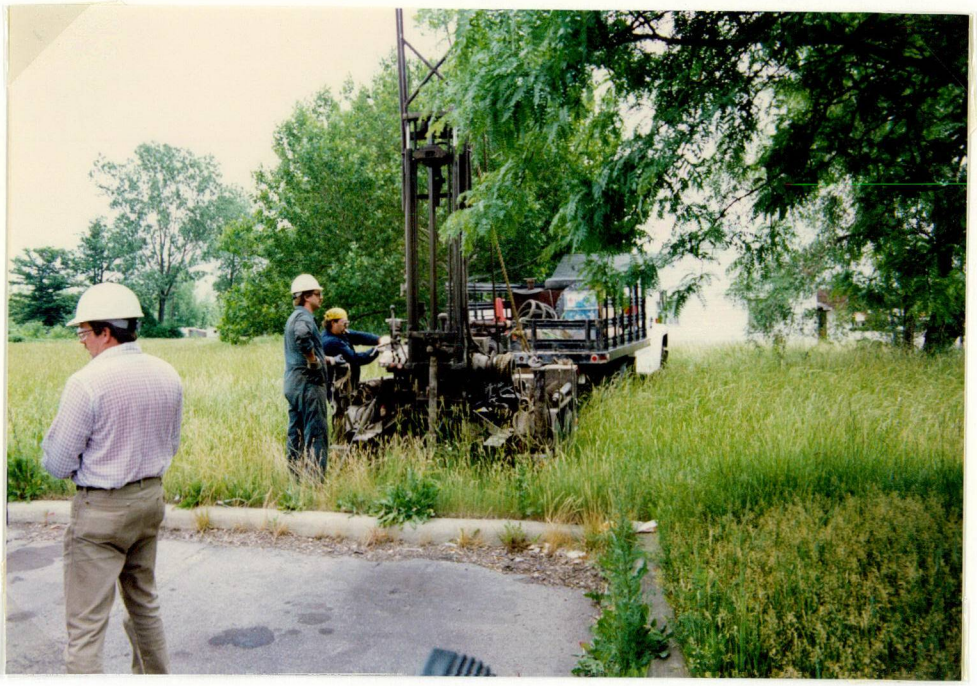


Photo No. 9
Boring B-19



Photo No. 10
Logging B-19



Photo No. 11
Decontamination of Equipment



Photo No. 12
Boring B-20

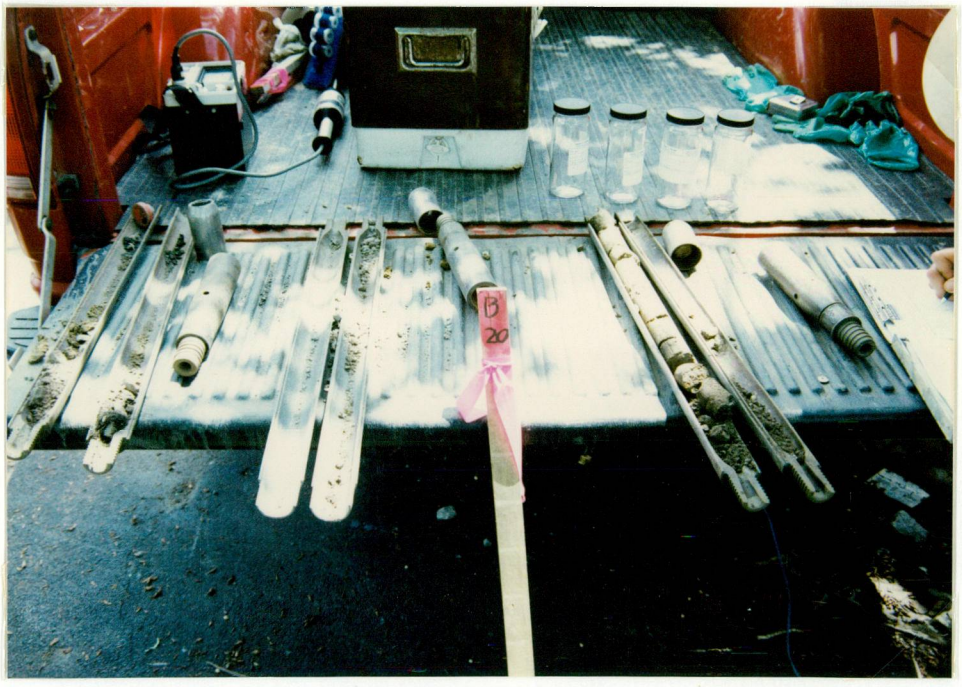


Photo No. 13
Logging B-20



Photo No. 14
Boring B-18

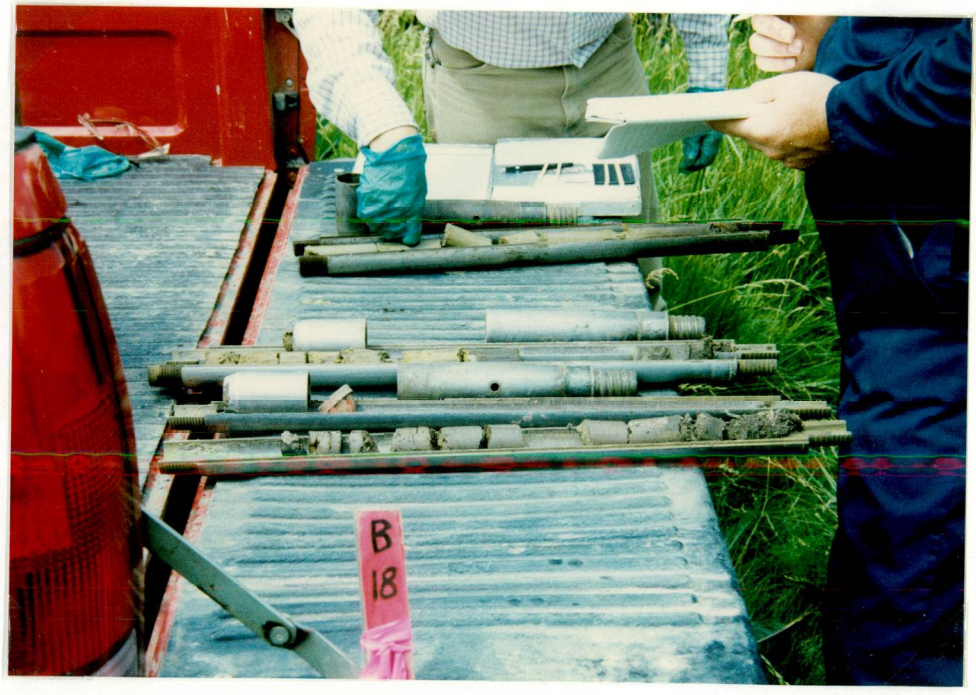


Photo No. 15
Logging B-18



Photo No. 16
Boring B-11



Photo No. 17
Boring B-11



Photo No. 18
Logging B-11



Photo No. 19
Boring B-12



Photo No. 20
Boring B-12



Photo No. 21
Logging B-12



Photo No. 22
Decontamination of Augers



Photo No. 23
Decontamination of Augers



Photo No. 24
Boring B-7



Photo No. 25
Boring B-7



Photo No. 26
Logging B-7



Photo No. 27
Logging B-7



Photo No. 28
Logging B-8



Photo No. 29
Logging B-8



Photo No. 30
Logging B-9



Photo No. 31
Logging B-9



Photo No. 32
Logging B-10



Photo No. 33
Logging B-10



Photo No. 34
Logging B-5



Photo No. 35
Logging B-4

Exhibit 3

Data Validator Qualifications

Exhibit 3

Qualifications
of
Stephen S. Odojewski
as
Data Validator

Education: BS and MS degrees in Organic/Analytical Chemistry - Canisius College, Buffalo, NY.

Experience: 1972-1974 Research Chemist
Chem-Trol Pollution Services, Inc.
Model City, NY

Among other duties, Mr. Odojewski performed research on the applicability of various analytical methods to the analysis of waste samples. In this role, he developed clean-up techniques necessary to allow the use of instrumental procedures.

1974-1976 Laboratory Supervisor
Chem-Trol Pollution Services, Inc.
Model City, NY

Directed the analytical efforts of 5 chemists and 6 technicians. Assigned work, reviewed results and specified procedures to be employed. Established Quality Control/Quality Assurance Program for Operations Laboratory.

1976-1979 Laboratory Manager
Chem-Trol Pollution Services, Inc.
Model City, NY

Responsible for the technical efforts of 16 chemists and technicians. Directed research program, operations laboratory and special analytical laboratory. Was responsible for regulation interpretation and liaison with regulatory agencies including; EPA Region II, NY State DEC Region 9 and the Niagara County Health Department. In this role, he designed and supervised the assembly of one of the nation's first mobile laboratories for use at abandoned hazardous waste sites.

1979-1983 Vice President - Technical Services
Waste Resource Associates, Inc.
Niagara Falls, NY

Provided technical control of all analytical work secured by the firm. In this role, he specified analytical procedures to be employed and reviewed the analytical results. This effort has included the design of groundwater monitoring programs for active hazardous and solid waste landfills as well as the design of the analytical program for remedial action investigations of abandoned in uncontrolled hazardous waste sites.

1983-1991 President
Waste Resource Associates, Inc.
Niagara Falls, NY

As President of the firm, Mr. Odojewski has assumed the administrative control for the corporation in addition to providing analytical review for projects the firm undertakes.

Exhibit 4

Inorganics Analysis Data Sheets

US EPA - CLP

1

EPA SAMPLE NO.

Trip Blank

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Level: (low/med) % Solids: Lab Sample ID: 5106 Date Received: 06/19/91

Concentration Units (ug/L or mg/kg dry weight): ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		A
7440-36-0	Antimony	5.0	U		F
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	200	U		A
7440-41-7	Beryllium	5.0	U		A
7440-43-9	Cadmium	5.0	U		A
7440-70-2	Calcium	250	U		A
7440-47-3	Chromium	2.0	U		F
7440-48-4	Cobalt	50.0	U		A
7440-50-8	Copper	25.0	U		A
7439-89-6	Iron	100	U		A
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium	1000	U		A
7439-96-5	Manganese	15.0	U		A
7439-97-6	Mercury	0.0002	U		C/V
7440-02-0	Nickel	40.0	U		A
7440-09-7	Potassium	1000	U		A
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	10.0	U		A
7440-23-5	Sodium	5000	U		A
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	3.0	U		F
7440-66-6	Zinc	20.0	U		A
	Cyanide	4.0	U		AS

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

01392

FORM I - IN

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 83.2 Lab Sample ID: 5102 Date Received: 06/19/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7260			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	2.17			F
7440-39-3	Barium	157			A
7440-41-7	Beryllium	0.50	U		A
7440-43-9	Cadmium	0.50	U		A
7440-70-2	Calcium	65500		*	A
7440-47-3	Chromium	15.7			F
7440-48-4	Cobalt	7.21			A
7440-50-8	Copper	20.3			A
7439-89-6	Iron	18800			A
7439-92-1	Lead	7.95			F
7439-95-4	Magnesium	12200			A
7439-96-5	Manganese	541		N	A
7439-97-6	Mercury	0.100	U		CV
7440-02-0	Nickel	20.3			A
7440-09-7	Potassium	1010			A
7782-49-2	Selenium	0.20	U		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	21.0			F
7440-66-6	Zinc	48.3		N	A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: clay

Color After: Clarity After: Artifacts:

Comments:

01393

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 73.6 Lab Sample ID: 5103 Date Received: 06/19/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	5.89			C/V
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: dark brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01394

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 82.4 Lab Sample ID: 5098 Date Received: 06/19/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10200			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	5.73			F
7440-39-3	Barium	85.0			A
7440-41-7	Beryllium	0.61		N	A
7440-43-9	Cadmium	0.50	U		A
7440-70-2	Calcium	30700			A
7440-47-3	Chromium	12.1			F
7440-48-4	Cobalt	8.74			A
7440-50-8	Copper	21.2			A
7439-89-6	Iron	17700			A
7439-92-1	Lead	10.9			F
7439-95-4	Magnesium	16800			A
7439-96-5	Manganese	533		N	A
7439-97-6	Mercury	0.310			CV
7440-02-0	Nickel	14.7			A
7440-09-7	Potassium	1270			A
7782-49-2	Selenium	0.20	U		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	42.5			F
7440-66-6	Zinc	116		N	A
	Cyanide	0.2	U		AS

Color Before: dark brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01395

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 83.6 Lab Sample ID: 5099 Date Received: 06/19/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.238			CV
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: clay

Color After: Clarity After: Artifacts:

Comments:

01396

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 84.4 Lab Sample ID: 5100 Date Received: 06/19/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8800			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	9.29			F
7440-39-3	Barium	122			A
7440-41-7	Beryllium	0.95			A
7440-43-9	Cadmium	4.15			A
7440-70-2	Calcium	68700			A
7440-47-3	Chromium	33.3			F
7440-48-4	Cobalt	500	U		A
7440-50-8	Copper	27.7			A
7439-89-6	Iron	16200			A
7439-92-1	Lead	160			F
7439-95-4	Magnesium	29800			A
7439-96-5	Manganese	627		N	A
7439-97-6	Mercury	0.100	U		C/V
7440-02-0	Nickel	13.9			A
7440-09-7	Potassium	1420			A
7782-49-2	Selenium	0.20	U		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	794			A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	22.1			F
7440-66-6	Zinc	931		N	A
	Cyanide	0.95	B		AS

Color Before: dark brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01397

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 78.0 Lab Sample ID: 5101 Date Received: 06/19/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.100	U		CV
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: sandy

Color After: Clarity After: Artifacts:

Comments:

01398

EPA SAMPLE NO.

B-4-1

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 82.8 Lab Sample ID: 5085 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8180			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	25.3			F
7440-39-3	Barium	244			A
7440-41-7	Beryllium	0.60			A
7440-43-9	Cadmium	0.60			A
7440-70-2	Calcium	50900			A
7440-47-3	Chromium	116			F
7440-48-4	Cobalt	11.8			A
7440-50-8	Copper	117			A
7439-89-6	Iron	21400			A
7439-92-1	Lead	482			F
7439-95-4	Magnesium	24400			A
7439-96-5	Manganese	450		N	A
7439-97-6	Mercury	.525			CV
7440-02-0	Nickel	21.4			A
7440-09-7	Potassium	1100			A
7782-49-2	Selenium	0.20	U		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	41.0			F
7440-66-6	Zinc	185		N	A
	Cyanide	5.60			AS

Color Before: dark brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01399

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 79.2 Lab Sample ID: 5086 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.481			CV
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments: Reacted vigorously with 30% H2O2.

01400

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 88.0 Lab Sample ID: 5083 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7540			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	4.15			F
7440-39-3	Barium	158			A
7440-41-7	Beryllium	0.80			A
7440-43-9	Cadmium	0.50	U		A
7440-70-2	Calcium	67700		*	A
7440-47-3	Chromium	56.8			F
7440-48-4	Cobalt	6.82			A
7440-50-8	Copper	28.8			A
7439-89-6	Iron	16900			A
7439-92-1	Lead	46.8			F
7439-95-4	Magnesium	23000			A
7439-96-5	Manganese	645		N	A
7439-97-6	Mercury	4.25			C/V
7440-02-0	Nickel	17.0			A
7440-09-7	Potassium	1270			A
7782-49-2	Selenium	0.20	U		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	19.2			F
7440-66-6	Zinc	133		N	A
	Cyanide	0.2	U		AS

Color Before: brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01401

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 79.2 Lab Sample ID: 5084 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	22.8			C/V
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments: Reacted vigorously with 30% H2O2.

01402

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 79.6 Lab Sample ID: 5104 Date Received: 06/19/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11800			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	4.38			F
7440-39-3	Barium	148			A
7440-41-7	Beryllium	0.88			A
7440-43-9	Cadmium	1.13			A
7440-70-2	Calcium	26500			A
7440-47-3	Chromium	45			F
7440-48-4	Cobalt	9.67			A
7440-50-8	Copper	47.7			A
7439-89-6	Iron	22500			A
7439-92-1	Lead	560			F
7439-95-4	Magnesium	13100			A
7439-96-5	Manganese	493		N	A
7439-97-6	Mercury	0.831			C/V
7440-02-0	Nickel	27.9			A
7440-09-7	Potassium	2450			A
7782-49-2	Selenium	0.20	U		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	17.6			F
7440-66-6	Zinc	225		N	A
	Cyanide	0.2	U		AS

Color Before: dark brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01403

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 80.0 Lab Sample ID: 5105 Date Received: 06/19/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.100	U		C/V
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: sandy

Color After: Clarity After: Artifacts:

Comments:

01404

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 80.0 Lab Sample ID: 5075 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7480			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	3.00			F
7440-39-3	Barium	165			A
7440-41-7	Beryllium	0.50	U		A
7440-43-9	Cadmium	1.62			A
7440-70-2	Calcium	114000			A
7440-47-3	Chromium	7612			F
7440-48-4	Cobalt	5.00	U		A
7440-50-8	Copper	26.8			A
7439-89-6	Iron	11300			A
7439-92-1	Lead	70			F
7439-95-4	Magnesium	65100			A
7439-96-5	Manganese	513		N	A
7439-97-6	Mercury	0.775			CV
7440-02-0	Nickel	15.6			A
7440-09-7	Potassium	1280			A
7782-49-2	Selenium	0.20	U		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	21.1			F
7440-66-6	Zinc	325		N	A
	Cyanide	0.2	U		AS

Color Before: dark brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01105

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 87.8 Lab Sample ID: 5076 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.100	U		C/V
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: clay

Color After: Clarity After: Artifacts:

Comments:

01406

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 91.6 Lab Sample ID: 5077 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7260			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	2.83			F
7440-39-3	Barium	29.5			A
7440-41-7	Beryllium	0.50	U		A
7440-43-9	Cadmium	0.50	U		A
7440-70-2	Calcium	13800			A
7440-47-3	Chromium	20.7			F
7440-48-4	Cobalt	6.33			A
7440-50-8	Copper	19.3			A
7439-89-6	Iron	13900			A
7439-92-1	Lead	9.35			F
7439-95-4	Magnesium	6240			A
7439-96-5	Manganese	271		N	A
7439-97-6	Mercury	0.543			C/V
7440-02-0	Nickel	18.1			A
7440-09-7	Potassium	967			A
7782-49-2	Selenium	0.22	B		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	17.9			F
7440-66-6	Zinc	50.5		N	A
	Cyanide	0.2	U		AS

Color Before: dark/light brown Clarity Before: Texture: sandy soil

Color After: Clarity After: Artifacts:

Comments:

01407

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 82.4 Lab Sample ID: 5078 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.100	U		CV
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: clay

Color After: Clarity After: Artifacts:

Comments:

01408

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 75.6 Lab Sample ID: 5079 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5710			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	8.16			F
7440-39-3	Barium	276			A
7440-41-7	Beryllium	0.66			A
7440-43-9	Cadmium	0.50	U		A
7440-70-2	Calcium	166000			A
7440-47-3	Chromium	28.9			F
7440-48-4	Cobalt	5.00	U		A
7440-50-8	Copper	20.2			A
7439-89-6	Iron	12900			A
7439-92-1	Lead	139			F
7439-95-4	Magnesium	79900			A
7439-96-5	Manganese	593		N	A
7439-97-6	Mercury	1.21			C/V
7440-02-0	Nickel	14.9			A
7440-09-7	Potassium	1350			A
7782-49-2	Selenium	0.20	U		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	36.8			F
7440-66-6	Zinc	78.6		N	A
	Cyanide	0.53	B		AS

Color Before: dark brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01409

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 80.4 Lab Sample ID: 5080 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.100	U		C/V
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: brown Clarity Before: Texture: clay

Color After: Clarity After: Artifacts:

Comments:

01410

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 88.0 Lab Sample ID: 5081 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6880			A
7440-36-0	Antimony	0.68	B		F
7440-38-2	Arsenic	31.8			F
7440-39-3	Barium	226			A
7440-41-7	Beryllium	0.50	U		A
7440-43-9	Cadmium	0.80			A
7440-70-2	Calcium	59800			A
7440-47-3	Chromium	34.1			F
7440-48-4	Cobalt	12.6			A
7440-50-8	Copper	158			A
7439-89-6	Iron	25300			A
7439-92-1	Lead	324			F
7439-95-4	Magnesium	16900			A
7439-96-5	Manganese	631		N	A
7439-97-6	Mercury	3.98			C/V
7440-02-0	Nickel	16.2			A
7440-09-7	Potassium	1300			A
7782-49-2	Selenium	0.20	U		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	5000	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	36.8			F
7440-66-6	Zinc	78.6		N	A
	Cyanide	0.2	U		AS

Color Before: dark brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01411

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 79.6 Lab Sample ID: 5082 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.100	U		CV
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: clay

Color After: Clarity After: Artifacts:

Comments:

01412

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 72.4 Lab Sample ID: 5007 Date Received: 06/17/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10100			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	14.3			F
7440-39-3	Barium	82.9			A
7440-41-7	Beryllium	0.50	U		A
7440-43-9	Cadmium	0.50	U		A
7440-70-2	Calcium	12700			A
7440-47-3	Chromium	27.8			F
7440-48-4	Cobalt	5.00	U		A
7440-50-8	Copper	55.4			A
7439-89-6	Iron	18200			A
7439-92-1	Lead	194			F
7439-95-4	Magnesium	9790			A
7439-96-5	Manganese	229		N	A
7439-97-6	Mercury	44.4			CV
7440-02-0	Nickel	20.3			A
7440-09-7	Potassium	1130			A
7782-49-2	Selenium	0.28	B		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	28.3			F
7440-66-6	Zinc	110		N	A
	Cyanide	0.2	U		AS

Color Before: dark brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01413

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 78.8 Lab Sample ID: 5008 Date Received: 06/17/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.709			C/V
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: brown Clarity Before: Texture: sandy

Color After: Clarity After: Artifacts:

Comments:

01414

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 84.4 Lab Sample ID: 5069 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8830			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	6.43			F
7440-39-3	Barium	60.4			A
7440-41-7	Beryllium	0.50	U		A
7440-43-9	Cadmium	0.50	U		A
7440-70-2	Calcium	21800			A
7440-47-3	Chromium	92.9			F
7440-48-4	Cobalt	5.00	U		A
7440-50-8	Copper	48.0			A
7439-89-6	Iron	16600			A
7439-92-1	Lead	64.3			F
7439-95-4	Magnesium	12200			A
7439-96-5	Manganese	292		N	A
7439-97-6	Mercury	43.5			CV
7440-02-0	Nickel	19.8			A
7440-09-7	Potassium	1490			A
7782-49-2	Selenium	0.20	U		F
7440-22-4	Silver	1100	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	26.4			F
7440-66-6	Zinc	107		N	A
	Cyanide	0.2	U		AS

Color Before: brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01415

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 83.2 Lab Sample ID: 5070 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.166			C/V
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: clay

Color After: Clarity After: Artifacts:

Comments:

01416

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 76.8 Lab Sample ID: 5071 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12900			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	3.51			F
7440-39-3	Barium	264			A
7440-41-7	Beryllium	0.78			A
7440-43-9	Cadmium	0.50	U		A
7440-70-2	Calcium	27800		*	A
7440-47-3	Chromium	31.2			F
7440-48-4	Cobalt	6.90			A
7440-50-8	Copper	50.4		*	A
7439-89-6	Iron	23200			A
7439-92-1	Lead	107			F
7439-95-4	Magnesium	7320		*	A
7439-96-5	Manganese	528		N *	A
7439-97-6	Mercury	11.0			C/V
7440-02-0	Nickel	26.7			A
7440-09-7	Potassium	2080		*	A
7782-49-2	Selenium	0.20	U		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	29.0			F
7440-66-6	Zinc	168		N	A
	Cyanide	0.2	U	N	AS

Color Before: dark brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01417

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 84.4 Lab Sample ID: 5072 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.166			CV
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: clay

Color After: Clarity After: Artifacts:

Comments:

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 85.2 Lab Sample ID: 5073 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16500			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	3.06			F
7440-39-3	Barium	206			A
7440-41-7	Beryllium	0.94			A
7440-43-9	Cadmium	0.50	U		A
7440-70-2	Calcium	33200			A
7440-47-3	Chromium	69.4			F
7440-48-4	Cobalt	11.7			A
7440-50-8	Copper	36.7			A
7439-89-6	Iron	26900			A
7439-92-1	Lead	(115)			F
7439-95-4	Magnesium	15400			A
7439-96-5	Manganese	612		N	A
7439-97-6	Mercury	3.55			C/V
7440-02-0	Nickel	28.1			A
7440-09-7	Potassium	3220			A
7782-49-2	Selenium	0.20	U		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	27.1			F
7440-66-6	Zinc	129		N	A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: clay

Color After: Clarity After: Artifacts:

Comments: Reacted vigorously with 30% H2O2.

01419

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 79.6 Lab Sample ID: 5074 Date Received: 06/18/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.100	U		CV
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: clay

Color After: Clarity After: Artifacts:

Comments: Reacted vigorously with 30% H2O2.

01420

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 84.4 Lab Sample ID: 4995 Date Received: 06/17/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6720			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	7.50			F
7440-39-3	Barium	111			A
7440-41-7	Beryllium	0.50	U		A
7440-43-9	Cadmium	4.30			A
7440-70-2	Calcium	22700			A
7440-47-3	Chromium	20.9			F
7440-48-4	Cobalt	7.11			A
7440-50-8	Copper	473			A
7439-89-6	Iron	12100			A
7439-92-1	Lead	121			F
7439-95-4	Magnesium	7440			A
7439-96-5	Manganese	210		N	A
7439-97-6	Mercury	1.10			C/V
7440-02-0	Nickel	14.7			A
7440-09-7	Potassium	991			A
7782-49-2	Selenium	0.48	B		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	12.3			F
7440-66-6	Zinc	269		N	A
	Cyanide	0.2	U		AS

Color Before: dark brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01421

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 78.8 Lab Sample ID: 4996 Date Received: 06/17/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.100	U		C/V
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: clay

Color After: Clarity After: Artifacts:

Comments:

01422

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 75.2 Lab Sample ID: 4998 Date Received: 06/17/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10500			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	7.47			F
7440-39-3	Barium	379			A
7440-41-7	Beryllium	0.50	U		A
7440-43-9	Cadmium	2.39			A
7440-70-2	Calcium	12400			A
7440-47-3	Chromium	107			F
7440-48-4	Cobalt	12.8			A
7440-50-8	Copper	402			A
7439-89-6	Iron	27900			A
7439-92-1	Lead	312			F
7439-95-4	Magnesium	5310			A
7439-96-5	Manganese	896		N	A
7439-97-6	Mercury	105			C/V
7440-02-0	Nickel	32.2			A
7440-09-7	Potassium	1280			A
7782-49-2	Selenium	0.27	B		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	65.3			F
7440-66-6	Zinc	778		N	A
	Cyanide	0.2	U		AS

Color Before: dark brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01423

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 79.2 Lab Sample ID: 4997 Date Received: 06/17/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	11.1			C/V
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: brown Clarity Before: Texture: clay

Color After: Clarity After: Artifacts:

Comments:

01424

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 86.8 Lab Sample ID: 4999 Date Received: 06/17/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11000			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	29.9			F
7440-39-3	Barium	156			A
7440-41-7	Beryllium	0.58			A
7440-43-9	Cadmium	0.50	U		A
7440-70-2	Calcium	15200			A
7440-47-3	Chromium	51.7			F
7440-48-4	Cobalt	8.29			A
7440-50-8	Copper	96.3			A
7439-89-6	Iron	27600			A
7439-92-1	Lead	140			F
7439-95-4	Magnesium	9400			A
7439-96-5	Manganese	462		N	A
7439-97-6	Mercury	171			C/V
7440-02-0	Nickel	30.0			A
7440-09-7	Potassium	1490			A
7782-49-2	Selenium	0.46	B		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	19.0			F
7440-66-6	Zinc	168		N	A
	Cyanide	0.2	U		AS

Color Before: dark brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01425

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 84.4 Lab Sample ID: 5000 Date Received: 06/17/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	1.88			C/V
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: brown Clarity Before: Texture: sandy clay

Color After: Clarity After: Artifacts:

Comments:

01426

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 92.0 Lab Sample ID: 5005 Date Received: 06/17/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17700			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	4.35			F
7440-39-3	Barium	162			A
7440-41-7	Beryllium	0.76			A
7440-43-9	Cadmium	0.50	U		A
7440-70-2	Calcium	15000			A
7440-47-3	Chromium	40.8			F
7440-48-4	Cobalt	11.4			A
7440-50-8	Copper	21.7			A
7439-89-6	Iron	33500			A
7439-92-1	Lead	53.8			F
7439-95-4	Magnesium	11600			A
7439-96-5	Manganese	444		N	A
7439-97-6	Mercury	7.01			CV
7440-02-0	Nickel	24.1			A
7440-09-7	Potassium	4840			A
7782-49-2	Selenium	0.22	B		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	26.3			F
7440-66-6	Zinc	67.6		N	A
	Cyanide	0.2	U		AS

Color Before: brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01427

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 77.2 Lab Sample ID: 5006 Date Received: 06/17/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.100	U		C/V
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: sandy

Color After: Clarity After: Artifacts:

Comments:

01428

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 82.8 Lab Sample ID: 5001 Date Received: 06/17/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7760			A
7440-36-0	Antimony	0.72	B		F
7440-38-2	Arsenic	6.63			F
7440-39-3	Barium	399			A
7440-41-7	Beryllium	0.50	U		A
7440-43-9	Cadmium	7.49			A
7440-70-2	Calcium	22200		*	A
7440-47-3	Chromium	51.2			F
7440-48-4	Cobalt	5.00	U		A
7440-50-8	Copper	64.7			A
7439-89-6	Iron	19500			A
7439-92-1	Lead	506			F
7439-95-4	Magnesium	13200			A
7439-96-5	Manganese	273		N	A
7439-97-6	Mercury	22.7			C/V
7440-02-0	Nickel	18.6			A
7440-09-7	Potassium	1040			A
7782-49-2	Selenium	0.36			F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	500	U		A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	20.7			F
7440-66-6	Zinc	2180		N	A
	Cyanide	0.2	U		AS

Color Before: dark brown Clarity Before: Texture: soil

Color After: Clarity After: Artifacts:

Comments:

01429

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 80.8 Lab Sample ID: 5002 Date Received: 06/17/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.100	U		C/V
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: brown Clarity Before: Texture: sandy

Color After: Clarity After: Artifacts:

Comments:

01430

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 84.8 Lab Sample ID: 5003 Date Received: 06/17/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	39500			A
7440-36-0	Antimony	0.50	U		F
7440-38-2	Arsenic	8.59			F
7440-39-3	Barium	525			A
7440-41-7	Beryllium	5.42			A
7440-43-9	Cadmium	0.50	U		A
7440-70-2	Calcium	231000		*	A
7440-47-3	Chromium	48.5			F
7440-48-4	Cobalt	5.00	U		A
7440-50-8	Copper	14.5			A
7439-89-6	Iron	7690			A
7439-92-1	Lead	65.3			F
7439-95-4	Magnesium	34500			A
7439-96-5	Manganese	3210		N	A
7439-97-6	Mercury	0.586			C/V
7440-02-0	Nickel	9.43			A
7440-09-7	Potassium	1570			A
7782-49-2	Selenium	0.20	U		F
7440-22-4	Silver	1.00	U		A
7440-23-5	Sodium	884			A
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	12.4			F
7440-66-6	Zinc	34.7		N	A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: clay

Color After: Clarity After: Artifacts:

Comments: Turned slightly jelly-like after heating.

01431

US EPA - CLP

EPA SAMPLE NO.

1

B-20-2

INORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Level: (low/med) low % Solids: 77.2 Lab Sample ID: 5004 Date Received: 06/17/91

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				A
7440-36-0	Antimony				F
7440-38-2	Arsenic				F
7440-39-3	Barium				A
7440-41-7	Beryllium				A
7440-43-9	Cadmium				A
7440-70-2	Calcium				A
7440-47-3	Chromium				F
7440-48-4	Cobalt				A
7440-50-8	Copper				A
7439-89-6	Iron				A
7439-92-1	Lead				F
7439-95-4	Magnesium				A
7439-96-5	Manganese				A
7439-97-6	Mercury	0.100	U		C/V
7440-02-0	Nickel				A
7440-09-7	Potassium				A
7782-49-2	Selenium				F
7440-22-4	Silver				A
7440-23-5	Sodium				A
7440-28-0	Thallium				F
7440-62-2	Vanadium				F
7440-66-6	Zinc				A
	Cyanide	0.2	U		AS

Color Before: light brown Clarity Before: Texture: sandy

Color After: Clarity After: Artifacts:

Comments:

01432

FORM I - IN

Exhibit 5

TCLP Analysis

QA/QC Verification

The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherence to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.

Denise R. Tuhovak
Organics Supervisor

Gary L. Amato
Technical Supervisor

Paul T. McMahon
Quality Control Officer

Catherine Mocniak
Customer Service Representative

LABORATORY REPORT
TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

Customer Sample Identification: COMPOSITE OF TOP SOIL SECTIONS
Sample Collection Date: 6/17-19/91

A.E.S. Job Code: FIL
A.E.S. Sample Number: 6174

Method of Collection: LAB COMP.
Sample Type: SOIL
The MATRIX SPIKE was conducted on Sample Number: 6174

Analytical Parameters	Observed Concentration	Matrix Spike Percent Recovery	Adjusted Concentration	Maximum Allowable Concentration (mg/l)	Quantifiable Limit	Analysis Date	Method No.	Reference No.
Arsenic, (on furnace)	BQL **	102	BQL	5.0	0.005	07/29/91	EPA 7060	5
Barium, (on flame)	BQL	98	BQL	100.0	5.00	07/31/91	EPA 7080	5
Cadmium, (on flame)	BQL	99	BQL	1.0	0.04	07/30/91	EPA 7130	5
Chromium, (on flame)	BQL	94	BQL	5.0	0.50	07/29/91	EPA 7190	5
Lead, (on flame)	BQL	100	BQL	5.0	1.00	07/29/91	EPA 7420	5
Mercury, Cold Vapor *	0.0023	85	0.0027	0.2	0.001	07/30/91	EPA 7471	5
Selenium, (on furnace)	BQL	86	BQL	1.0	0.005	07/29/91	EPA 7740	5
Silver, (on flame)	BQL	96	BQL	5.0	0.10	07/28/91	EPA 7760	5

FOOTNOTES

* Mercury was analyzed after the 28 day holding time specified in the TCLP Method. The customer was notified.
** Below Quantifiable Limits.

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY CONTROL
QUALITY CONTROL - ACCURACY

Type of Analysis: Matrix Spikes and E.P.A. Standards
Client: Waste Resource Associates, Inc

A.E.S. Job Code: FIL
Units: mg/l or ppm

Analytical Parameters	Sample No.	Type	Observed Concentration	Original Concentration	Added Concentration	Percent Recovery*
Lead	6174	SPK	10.0	BQL **	10.0	100
EPA (Pb) Std.	1085	EPA	5.24	5.12	NONE	102
Barium	6174	SPK	9.84	BQL	10.0	98
EPA (Ba) Std.	1085	EPA	5.01	5.00	NONE	100
Chromium	6174	SPK	4.70	BQL	5.0	94
EPA (Cr) Std.	1085	EPA	4.98	5.06	NONE	98
Cadmium	6174	SPK	0.99	BQL	1.00	99
EPA (Cd) Std.	1085	EPA	1.00	1.01	NONE	99
Silver	6174	SPK	1.93	BQL	2.00	96
EPA (Ag) Std.	1085	EPA	2.48	2.50	NONE	99
Arsenic	6174	SPK	0.051	BQL	0.050	102
EPA (As) Std.	378	EPA	0.064	0.061	NONE	105

* % Recovery = 100 x ((Observed Concentration - "background" Original Concentration) / "Spike" Added Concentration)

* If Added=NONE: % Recovery = 100 x (Observed Concentration / "background" Original Concentration)

FOOTNOTES

** Below Quantifialble Limits.

ADVANCED ENVIRONMENTAL SERVICES, INC.
LABORATORY CONTROL
QUALITY CONTROL - ACCURACY

Type of Analysis: Matrix Spikes and E.P.A. Standards
Client: Waste Resource Associates, Inc

A.E.S. Job Code: FIL
Units: mg/l or ppm

Analytical Parameters	Sample No.	Type	Observed Concentration	Original Concentration	Added Concentration	Percent Recovery*
Selenium	6174	SPK	0.043	BQL **	0.050	86
EPA (Se) Std.	1085	EPA	0.044	0.050	NONE	88
Mercury	6174	SPK	0.0108	0.0023	0.0100	85
EPA (Hg) Std.	378	EPA	0.0086	0.0076	NONE	113

* % Recovery = 100 x ((Observed Concentration - "background" Original Concentration) / "Spike" Added Concentration)

* If Added=NONE: % Recovery = 100 x (Observed Concentration / "background" Original Concentration)

FOOTNOTES

** Below Quantifiable Limits.

AES Inorganics Department Traceability

Job Code: FIL

Technician Signature	AES Sample #	Method	Date of Analysis
Dawn McDougall	6174	7420	7-29-91
Dawn McDougall	6174	7760	7-28-91
Mark Moore	6174	7060	7-29-91
Mark Moore	6174	7740	7-29-91
Dawn McDougall	6174	7190	7-29-91
Dawn McDougall	6174	7130	7-30-91
DWTRJ	6174	7471	7-30-91
[illegible]	6174	7080	7-31-9

ADVANCED ENVIRONMENTAL SEVICES, Inc.
EXTRACTION TRACEABILITY REPORT
INORGANICS REPORT

A.E.S. Job Code: FIL A.E.S. Job Number: 912424

TECHNICIAN	ANALYTICAL METHOD	SAMPLE CODE(S)	DATE OF EXTRACTION
AWTRJ	1311	6174	7-26-91

Exhibit 6

Volatile Organics Analysis Data Sheets

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trip Blank

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 5106

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: FIL5106.D

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. --- Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Choloromethane	5.00	U	
74-83-9	Bromomethane	5.00	U	
75-01-4	Vinyl Chloride	5.00	U	
75-00-3	Chloroethane	5.00	U	
75-09-2	Methylene Chloride	10.00	3J	B
67-64-1	Acetone	25.00	U	
75-15-0	Carbon Disulfide	5.00	U	
75-35-4	1,1-Dichloroethene	5.00	U	
75-34-3	1,1-Dichloroethane	5.00	U	
67-66-3	Chloroform	5.00	U	
107-06-2	1,2-Dichloroethane	5.00	U	
78-93-3	2-Butanone	25.00	U	
71-55-6	1,1,1-Trichloroethane	5.00	U	
56-23-5	Carbon Tetrachloride	5.00	U	
108-05-4	Vinyl Acetate	10.00	U	
75-27-4	Bromodichloromethane	5.00	U	
78-87-5	1,2-Dichloropropane	5.00	U	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	
79-01-6	Trichloroethene	5.00	U	
124-48-1	Dibromochloromethane	5.00	U	
79-00-5	1,1,2-Trichloroethane	5.00	U	
71-43-2	Benzene	5.00	U	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	
75-25-2	Bromoform	5.00	U	
108-10-1	4-Methyl-2-Pentanone	25.00	U	
591-78-6	2-Hexanone	25.00	U	
127-18-4	Tetrachloroethene	5.00	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	
108-88-3	Toluene	5.00	U	
108-90-7	Chlorobenzene	5.00	U	
100-41-4	Ethylbenzene	5.00	U	
100-42-5	Styrene	5.00	U	
1330-20-7	Xylene (total)	5.00	U	

EPA Sample No

Trip Blank

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5106

Sample wt/vol: 5.00 (g/mL)ml Lab File ID: FIL5106

Level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. -- Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	--	unknown	1.00	35.07	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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19.					
20.					
21.					
22.					
23.					
24.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Method Blank

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: Method Blank

Sample wt/vol: 5.00 (g/mL) g Lab File ID: BLK6-19.D

Level: (low/med) low Date Received: ---

% Moisture: not dec. --- Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Choloromethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	10.00	3J
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	1J
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

EPA Sample No.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Method Blank

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: Method Blank

Sample wt/vol: 5.00 (g/mL) g Lab File ID: BLK6-19.D

Level: (low/med) low Date Received: —

% Moisture: not dec. — Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.00	16	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
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23.					
24.					

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-1-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5102

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5102.D

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 17 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Cholormethane	5.00	U	
74-83-9	Bromomethane	5.00	U	
75-01-4	Vinyl Chloride	5.00	U	
75-00-3	Chloroethane	5.00	U	
75-09-2	Methylene Chloride	10.00	9J	B
67-64-1	Acetone	25.00	U	
75-15-0	Carbon Disulfide	5.00	U	
75-35-4	1,1-Dichloroethene	5.00	U	
75-34-3	1,1-Dichloroethane	5.00	U	
67-66-3	Chloroform	5.00	U	
107-06-2	1,2-Dichloroethane	5.00	U	
78-93-3	2-Butanone	25.00	U	
71-55-6	1,1,1-Trichloroethane	5.00	U	
56-23-5	Carbon Tetrachloride	5.00	U	
108-05-4	Vinyl Acetate	10.00	U	
75-27-4	Bromodichloromethane	5.00	U	
78-87-5	1,2-Dichloropropane	5.00	U	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	
79-01-6	Trichloroethene	5.00	U	
124-48-1	Dibromochloromethane	5.00	U	
79-00-5	1,1,2-Trichloroethane	5.00	U	
71-43-2	Benzene	5.00	U	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	
75-25-2	Bromoform	5.00	U	
108-10-1	4-Methyl-2-Pentanone	25.00	U	
591-78-6	2-Hexanone	25.00	U	
127-18-4	Tetrachloroethene	5.00	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	
108-88-3	Toluene	5.00	U	
108-90-7	Chlorobenzene	5.00	U	
100-41-4	Ethylbenzene	5.00	U	
100-42-5	Styrene	5.00	U	
1330-20-7	Xylene (total)	5.00	U	

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5102

Sample wt/vol: 5.00 (g/mL) g Lab File ID: FIL5102

Level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. 17 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.02	519	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
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23.					
24.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-1-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5103

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5103.D

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 16 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Cholormethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	14.20	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5103

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5103

Level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. 16 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	---	unknown	1.02	636	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-2-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5098

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5098.D

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 18 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Cholormethane	5.00	U	
74-83-9	Bromomethane	5.00	U	
75-01-4	Vinyl Chloride	5.00	U	
75-00-3	Chloroethane	5.00	U	
75-09-2	Methylene Chloride	10.00	9J	B
67-64-1	Acetone	25.00	U	
75-15-0	Carbon Disulfide	5.00	U	
75-35-4	1,1-Dichloroethene	5.00	U	
75-34-3	1,1-Dichloroethane	5.00	U	
67-66-3	Chloroform	5.00	U	
107-06-2	1,2-Dichloroethane	5.00	U	
78-93-3	2-Butanone	25.00	U	
71-55-6	1,1,1-Trichloroethane	5.00	U	
56-23-5	Carbon Tetrachloride	5.00	U	
108-05-4	Vinyl Acetate	10.00	U	
75-27-4	Bromodichloromethane	5.00	U	
78-87-5	1,2-Dichloropropane	5.00	U	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	
79-01-6	Trichloroethene	5.00	U	
124-48-1	Dibromochloromethane	5.00	U	
79-00-5	1,1,2-Trichloroethane	5.00	U	
71-43-2	Benzene	5.00	U	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	
75-25-2	Bromoform	5.00	U	
108-10-1	4-Methyl-2-Pentanone	25.00	U	
591-78-6	2-Hexanone	25.00	U	
127-18-4	Tetrachloroethene	5.00	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	
108-88-3	Toluene	5.00	U	
108-90-7	Chlorobenzene	5.00	U	
100-41-4	Ethylbenzene	5.00	U	
100-42-5	Styrene	5.00	U	
1330-20-7	Xylene (total)	5.00	U	

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5098

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5098

Level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. 18 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.02	546	
2.					
3.					
4.					
5.					
6.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-2-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5099

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5099.D

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 16 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Choloromethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	14.95	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5099

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5099

Level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. 16 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.01	495	
2.					
3.					
4.					
5.					
6.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-3-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5100

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5100.D

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 16 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Choloromethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	17.06	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

EPA Sample No

B-3-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5100

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5100

Level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. 16 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.01	31	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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21.					
22.					
23.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-3-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5101

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5101.D

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 22 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Cholormethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	10.22	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5101

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5101

Level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. 22 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	---	unknown	1.01	502	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
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16.					
17.					
18.					
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21.					
22.					
23.					
24.					

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-4-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5085

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5085.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 14 Date Analyzed: 06/22/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Cholormethane	5.00	U	
74-83-9	Bromomethane	5.00	U	
75-01-4	Vinyl Chloride	5.00	U	
75-00-3	Chloroethane	5.00	U	
75-09-2	Methylene Chloride	11.15		B
67-64-1	Acetone	25.00	U	
75-15-0	Carbon Disulfide	5.00	U	
75-35-4	1,1-Dichloroethene	5.00	U	
75-34-3	1,1-Dichloroethane	5.00	U	
67-66-3	Chloroform	5.00	U	
107-06-2	1,2-Dichloroethane	5.00	U	
78-93-3	2-Butanone	25.00	U	
71-55-6	1,1,1-Trichloroethane	5.00	U	
56-23-5	Carbon Tetrachloride	5.00	U	
108-05-4	Vinyl Acetate	10.00	U	
75-27-4	Bromodichloromethane	5.00	U	
78-87-5	1,2-Dichloropropane	5.00	U	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	
79-01-6	Trichloroethene	5.00	U	
124-48-1	Dibromochloromethane	5.00	U	
79-00-5	1,1,2-Trichloroethane	5.00	U	
71-43-2	Benzene	5.00	U	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	
75-25-2	Bromoform	5.00	U	
108-10-1	4-Methyl-2-Pentanone	25.00	U	
591-78-6	2-Hexanone	25.00	U	
127-18-4	Tetrachloroethene	5.00	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	
108-88-3	Toluene	5.00	U	
108-90-7	Chlorobenzene	5.00	U	
100-41-4	Ethylbenzene	5.00	U	
100-42-5	Styrene	5.00	U	
1330-20-7	Xylene (total)	5.00	U	

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5085

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5085

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 14 Date Analyzed: 06/22/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	---	unknown	1.02	514	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-4-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5086

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5086.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 15 Date Analyzed: 06/22/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Choloromethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	11.44	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	3J
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5086

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5086

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 15 Date Analyzed: 06/22/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.02	482	
2.					
3.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-5-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5083

Sample wt/vol: ~~5.00~~ (g/mL) G Lab File ID: FIL5083.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 9 Date Analyzed: 06/22/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Choloromethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	16.58	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5083

Sample wt/vol: 5.00 (g/mL) g Lab File ID: FIL5083

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 9 Date Analyzed: 06/22/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.00	503	
2.					
3.					
4.					
5.					
6.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-5-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5084

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5084.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 13 Date Analyzed: 06/22/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Choloromethane	5.00	U	
74-83-9	Bromomethane	5.00	U	
75-01-4	Vinyl Chloride	5.00	U	
75-00-3	Chloroethane	5.00	U	
75-09-2	Methylene Chloride	10.00	10J	B
67-64-1	Acetone	25.00	U	
75-15-0	Carbon Disulfide	5.00	U	
75-35-4	1,1-Dichloroethene	5.00	U	
75-34-3	1,1-Dichloroethane	5.00	U	
67-66-3	Chloroform	5.00	U	
107-06-2	1,2-Dichloroethane	5.00	U	
78-93-3	2-Butanone	25.00	U	
71-55-6	1,1,1-Trichloroethane	5.00	U	
56-23-5	Carbon Tetrachloride	5.00	U	
108-05-4	Vinyl Acetate	10.00	U	
75-27-4	Bromodichloromethane	5.00	U	
78-87-5	1,2-Dichloropropane	5.00	U	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	
79-01-6	Trichloroethene	5.00	U	
124-48-1	Dibromochloromethane	5.00	U	
79-00-5	1,1,2-Trichloroethane	5.00	U	
71-43-2	Benzene	5.00	U	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	
75-25-2	Bromoform	5.00	U	
108-10-1	4-Methyl-2-Pentanone	25.00	U	
591-78-6	2-Hexanone	25.00	U	
127-18-4	Tetrachloroethene	5.00	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	
108-88-3	Toluene	5.00	U	
108-90-7	Chlorobenzene	5.00	U	
100-41-4	Ethylbenzene	5.00	U	
100-42-5	Styrene	5.00	U	
1330-20-7	Xylene (total)	5.00	U	

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5084

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5084

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 13 Date Analyzed: 06/22/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.02	629	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
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11.					
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23.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-6-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5104

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5104.D

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 20 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Choloromethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	10.89	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

EPA Sample No

B-6-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5104

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5104

Level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. 20 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.01	608	
2.	99-87-6	Benzene, 1-methyl-4-(1-methyl)	19.38	34	
3.	13466-78-9	Delta,3-Carene	20.98	90	
4.	99-87-6	Benzene,1-methyl-4(1-methyl)	22.02	8	
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
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14.					
15.					
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21.					
22.					
23.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-6-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5105

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5105.D

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 20 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Cholormethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	12.26	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5105

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5105

Level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. 20 Date Analyzed: 06/24/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	---	unknown	1.02	579	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
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23.					
24.					

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-7-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5075

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5075.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 11 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Cholormethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	10.00	9J B
67-64-1	Acetone	25.00	17J
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

EPA Sample No
B-7-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5075

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL 5075

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 11 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.01	435	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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22.					
23.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-7-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5076

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5076.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 11 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Cholormethane	5.00	U	
74-83-9	Bromomethane	5.00	U	
75-01-4	Vinyl Chloride	5.00	U	
75-00-3	Chloroethane	5.00	U	
75-09-2	Methylene Chloride	10.00	6J	B
67-64-1	Acetone	25.00	U	
75-15-0	Carbon Disulfide	5.00	U	
75-35-4	1,1-Dichloroethene	5.00	U	
75-34-3	1,1-Dichloroethane	5.00	U	
67-66-3	Chloroform	5.00	U	
107-06-2	1,2-Dichloroethane	5.00	U	
78-93-3	2-Butanone	25.00	U	
71-55-6	1,1,1-Trichloroethane	5.00	U	
56-23-5	Carbon Tetrachloride	5.00	U	
108-05-4	Vinyl Acetate	10.00	U	
75-27-4	Bromodichloromethane	5.00	U	
78-87-5	1,2-Dichloropropane	5.00	U	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	
79-01-6	Trichloroethene	5.00	U	
124-48-1	Dibromochloromethane	5.00	U	
79-00-5	1,1,2-Trichloroethane	5.00	U	
71-43-2	Benzene	5.00	U	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	
75-25-2	Bromoform	5.00	U	
108-10-1	4-Methyl-2-Pentanone	25.00	U	
591-78-6	2-Hexanone	25.00	U	
127-18-4	Tetrachloroethene	5.00	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	
108-88-3	Toluene	5.00	U	
108-90-7	Chlorobenzene	5.00	U	
100-41-4	Ethylbenzene	5.00	U	
100-42-5	Styrene	5.00	U	
1330-20-7	Xylene (total)	5.00	U	

EPA Sample No
B-7-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5076

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5076

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 11 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	---	unknown	1.03	485	
2.					
3.					
4.					
5.					
6.					
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24.					

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VOLATILE ORGANICS ANALYSIS DATA SHEET B-8-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5077

Sample wt/vol: 5.00 (g/mL) g Lab File ID: FIL5077.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 16 dec. Date Analyzed: 6/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
74-87-3	Chloromethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	10.00	7J,B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1,-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

1E

EPA Sample No
B-8-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5077

Sample wt/vol: 1.00 (g/mL) g Lab File ID: FIL5077

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 16 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.00	542	
2.	—	unknown	1.88	14	
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-8-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5078

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5078.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 16 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Choloromethane	5.00	U	
74-83-9	Bromomethane	5.00	U	
75-01-4	Vinyl Chloride	5.00	U	
75-00-3	Chloroethane	5.00	U	
75-09-2	Methylene Chloride	10.00	&J	B
67-64-1	Acetone	25.00	U	
75-15-0	Carbon Disulfide	5.00	U	
75-35-4	1,1-Dichloroethene	5.00	U	
75-34-3	1,1-Dichloroethane	5.00	U	
67-66-3	Chloroform	5.00	U	
107-06-2	1,2-Dichloroethane	5.00	U	
78-93-3	2-Butanone	25.00	U	
71-55-6	1,1,1-Trichloroethane	5.00	U	
56-23-5	Carbon Tetrachloride	5.00	U	
108-05-4	Vinyl Acetate	10.00	U	
75-27-4	Bromodichloromethane	5.00	U	
78-87-5	1,2-Dichloropropane	5.00	U	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	
79-01-6	Trichloroethene	5.00	U	
124-48-1	Dibromochloromethane	5.00	U	
79-00-5	1,1,2-Trichloroethane	5.00	U	
71-43-2	Benzene	5.00	U	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	
75-25-2	Bromoform	5.00	U	
108-10-1	4-Methyl-2-Pentanone	25.00	U	
591-78-6	2-Hexanone	25.00	U	
127-18-4	Tetrachloroethene	5.00	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	
108-88-3	Toluene	5.00	U	
108-90-7	Chlorobenzene	5.00	U	
100-41-4	Ethylbenzene	5.00	U	
100-42-5	Styrene	5.00	U	
1330-20-7	Xylene (total)	5.00	U	

EPA Sample No
B-8-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5078

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5078

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 16 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.02	486	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-9-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5079

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5079.D

Level: (low/med) low Date Received: 6-18-91

% Moisture: not dec. 23 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Cholormethane	5.00	U	
74-83-9	Bromomethane	5.00	U	
75-01-4	Vinyl Chloride	5.00	U	
75-00-3	Chloroethane	5.00	U	
75-09-2	Methylene Chloride	12.64		B
67-64-1	Acetone	25.00	U	
75-15-0	Carbon Disulfide	5.00	U	
75-35-4	1,1-Dichloroethene	5.00	U	
75-34-3	1,1-Dichloroethane	5.00	U	
67-66-3	Chloroform	5.00	U	
107-06-2	1,2-Dichloroethane	5.00	U	
78-93-3	2-Butanone	25.00	U	
71-55-6	1,1,1-Trichloroethane	5.00	U	
56-23-5	Carbon Tetrachloride	5.00	U	
108-05-4	Vinyl Acetate	10.00	U	
75-27-4	Bromodichloromethane	5.00	U	
78-87-5	1,2-Dichloropropane	5.00	U	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	
79-01-6	Trichloroethene	5.00	U	
124-48-1	Dibromochloromethane	5.00	U	
79-00-5	1,1,2-Trichloroethane	5.00	U	
71-43-2	Benzene	5.00	U	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	
75-25-2	Bromoform	5.00	U	
108-10-1	4-Methyl-2-Pentanone	25.00	U	
591-78-6	2-Hexanone	25.00	U	
127-18-4	Tetrachloroethene	5.00	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	
108-88-3	Toluene	5.00	U	
108-90-7	Chlorobenzene	5.00	U	
100-41-4	Ethylbenzene	5.00	U	
100-42-5	Styrene	5.00	U	
1330-20-7	Xylene (total)	5.00	U	

EPA Sample No
B-9-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5079

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5079

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 23 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.00	504	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-9-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5080

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5080.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 18 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Cholormethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	15.34	B
67-64-1	Acetone	25.00	15J
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5080

Sample wt/vol: 5.00 (g/mL) g Lab File ID: FIL5080

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 18 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.01	585	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
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21.					
22.					
23.					
24.					

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-10-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5081

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5081.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 5 Date Analyzed: 06/22/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Choloromethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	16.03	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	3J
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

EPA Sample No

B-10-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5081

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5081

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 5 Date Analyzed: 06/22/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	--	unknown	1.01	396	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-10-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5082

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5082.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 18 Date Analyzed: 06/22/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Choloromethane	5.00	U	
74-83-9	Bromomethane	5.00	U	
75-01-4	Vinyl Chloride	5.00	U	
75-00-3	Chloroethane	5.00	U	
75-09-2	Methylene Chloride	10.00	7J	B
67-64-1	Acetone	25.00	U	
75-15-0	Carbon Disulfide	5.00	U	
75-35-4	1,1-Dichloroethene	5.00	U	
75-34-3	1,1-Dichloroethane	5.00	U	
67-66-3	Chloroform	5.00	U	
107-06-2	1,2-Dichloroethane	5.00	U	
78-93-3	2-Butanone	25.00	U	
71-55-6	1,1,1-Trichloroethane	5.00	U	
56-23-5	Carbon Tetrachloride	5.00	U	
108-05-4	Vinyl Acetate	10.00	U	
75-27-4	Bromodichloromethane	5.00	U	
78-87-5	1,2-Dichloropropane	5.00	U	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	
79-01-6	Trichloroethene	5.00	U	
124-48-1	Dibromochloromethane	5.00	U	
79-00-5	1,1,2-Trichloroethane	5.00	U	
71-43-2	Benzene	5.00	U	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	
75-25-2	Bromoform	5.00	U	
108-10-1	4-Methyl-2-Pentanone	25.00	U	
591-78-6	2-Hexanone	25.00	U	
127-18-4	Tetrachloroethene	5.00	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	
108-88-3	Toluene	5.00	U	
108-90-7	Chlorobenzene	5.00	U	
100-41-4	Ethylbenzene	5.00	U	
100-42-5	Styrene	5.00	U	
1330-20-7	Xylene (total)	5.00	U	

EPA Sample No

B-10-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5082

Sample wt/vol: 5.00 (g/mL) g Lab File ID: FIL5082

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 18 Date Analyzed: 06/22/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.01	528	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-11-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5007

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5007R.D

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 26 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Choloromethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	24.97	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	4J
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

EPA Sample No
B-11-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5007

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5007

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 26 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	---	unknown	1.01	673	
2.	28634-89-1	Beta-Thujene	19.23	11	
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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24.					

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-11-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5008

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5008.D

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 18 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Cholormethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	16.17	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5008

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5008

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 18 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.01	405	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-12-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5069

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5069.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 14 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Cholormethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	17.40	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	2J
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

EPA Sample No
B-12-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5069

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5069

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 14 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.02	585	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
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22.					
23.					
24.					

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-12-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5070

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5070.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 12 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Choloromethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	17.18	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

EPA Sample No
B-12-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5070

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5070

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 12 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.02	477	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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22.					
23.					
24.					

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-13-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5071

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5071.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 22 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Cholormethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	19.44	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

EPA Sample No
B-13-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5071

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5071

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 22 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.02	641	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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21.					
22.					
23.					
24.					

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-13-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5072

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5072.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 14 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Choloromethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	10.00	8J ,B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

EPA Sample No
B-13-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5072

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5072

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 14 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.02	538	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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12.					
13.					
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17.					
18.					
19.					
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21.					
22.					
23.					
24.					

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-14-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5073

Sample wt/vol: 5.00 _____(g/mL) G Lab File ID: FIL5073.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 13 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Cholormethane	5.00	U	
74-83-9	Bromomethane	5.00	U	
75-01-4	Vinyl Chloride	5.00	U	
75-00-3	Chloroethane	5.00	U	
75-09-2	Methylene Chloride	10.00	7J	B
67-64-1	Acetone	25.00	U	
75-15-0	Carbon Disulfide	5.00	U	
75-35-4	1,1-Dichloroethene	5.00	U	
75-34-3	1,1-Dichloroethane	5.00	U	
67-66-3	Chloroform	5.00	U	
107-06-2	1,2-Dichloroethane	5.00	U	
78-93-3	2-Butanone	25.00	U	
71-55-6	1,1,1-Trichloroethane	5.00	U	
56-23-5	Carbon Tetrachloride	5.00	U	
108-05-4	Vinyl Acetate	10.00	U	
75-27-4	Bromodichloromethane	5.00	U	
78-87-5	1,2-Dichloropropane	5.00	U	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	
79-01-6	Trichloroethene	5.00	U	
124-48-1	Dibromochloromethane	5.00	U	
79-00-5	1,1,2-Trichloroethane	5.00	U	
71-43-2	Benzene	5.00	U	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	
75-25-2	Bromoform	5.00	U	
108-10-1	4-Methyl-2-Pentanone	25.00	U	
591-78-6	2-Hexanone	25.00	U	
127-18-4	Tetrachloroethene	5.00	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	
108-88-3	Toluene	5.00	U	
108-90-7	Chlorobenzene	5.00	U	
100-41-4	Ethylbenzene	5.00	U	
100-42-5	Styrene	5.00	U	
1330-20-7	Xylene (total)	5.00	U	

EPA Sample No
B-14-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5073

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5073

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 13 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	---	unknown	1.02	389	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
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23.					
24.					

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-14-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5074

Sample wt/vol: 5.00 ___ ___(g/mL) G Lab File ID: FIL5074.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 13 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Choloromethane	5.00	U	
74-83-9	Bromomethane	5.00	U	
75-01-4	Vinyl Chloride	5.00	U	
75-00-3	Chloroethane	5.00	U	
75-09-2	Methylene Chloride	10.00	9J	B
67-64-1	Acetone	25.00	U	
75-15-0	Carbon Disulfide	5.00	U	
75-35-4	1,1-Dichloroethene	5.00	U	
75-34-3	1,1-Dichloroethane	5.00	U	
67-66-3	Chloroform	5.00	U	
107-06-2	1,2-Dichloroethane	5.00	U	
78-93-3	2-Butanone	25.00	U	
71-55-6	1,1,1-Trichloroethane	5.00	U	
56-23-5	Carbon Tetrachloride	5.00	U	
108-05-4	Vinyl Acetate	10.00	U	
75-27-4	Bromodichloromethane	5.00	U	
78-87-5	1,2-Dichloropropane	5.00	U	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	
79-01-6	Trichloroethene	5.00	U	
124-48-1	Dibromochloromethane	5.00	U	
79-00-5	1,1,2-Trichloroethane	5.00	U	
71-43-2	Benzene	5.00	U	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	
75-25-2	Bromoform	5.00	U	
108-10-1	4-Methyl-2-Pentanone	25.00	U	
591-78-6	2-Hexanone	25.00	U	
127-18-4	Tetrachloroethene	5.00	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	
108-88-3	Toluene	5.00	U	
108-90-7	Chlorobenzene	5.00	U	
100-41-4	Ethylbenzene	5.00	U	
100-42-5	Styrene	5.00	U	
1330-20-7	Xylene (total)	5.00	U	

EPA Sample No
B-14-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5074

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5074

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 13 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.01	524	
2.					
3.					
4.					
5.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-15-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4995

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL4995.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 2 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 0.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Cholormethane	4.63	U
74-83-9	Bromomethane	4.63	U
75-01-4	Vinyl Chloride	4.63	U
75-00-3	Chloroethane	4.63	U
75-09-2	Methylene Chloride	12.51	B
67-64-1	Acetone	23.15	15J
75-15-0	Carbon Disulfide	4.63	1J
75-35-4	1,1-Dichloroethene	4.63	U
75-34-3	1,1-Dichloroethane	4.63	U
67-66-3	Chloroform	4.63	U
107-06-2	1,2-Dichloroethane	4.63	U
78-93-3	2-Butanone	23.15	U
71-55-6	1,1,1-Trichloroethane	4.63	U
56-23-5	Carbon Tetrachloride	4.63	U
108-05-4	Vinyl Acetate	9.26	U
75-27-4	Bromodichloromethane	4.63	U
78-87-5	1,2-Dichloropropane	4.63	U
10061-01-5	cis-1,3-Dichloropropene	4.63	U
79-01-6	Trichloroethene	4.63	U
124-48-1	Dibromochloromethane	4.63	U
79-00-5	1,1,2-Trichloroethane	4.63	U
71-43-2	Benzene	4.63	U
10061-02-6	trans-1,3-Dichloropropene	4.63	U
75-25-2	Bromoform	4.63	U
108-10-1	4-Methyl-2-Pentanone	23.15	U
591-78-6	2-Hexanone	23.15	U
127-18-4	Tetrachloroethene	4.63	U
79-34-5	1,1,2,2-Tetrachloroethane	4.63	U
108-88-3	Toluene	4.63	U
108-90-7	Chlorobenzene	4.63	U
100-41-4	Ethylbenzene	4.63	U
100-42-5	Styrene	4.63	U
1330-20-7	Xylene (total)	4.63	U

EPA Sample No
B-15-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 4995

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL4995

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 2 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 0.9

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.00	155	—
2.					
3.					
4.					
5.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-15-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4996

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL4996.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 9 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 0.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Cholormethane	4.72	U
74-83-9	Bromomethane	4.72	U
75-01-4	Vinyl Chloride	4.72	U
75-00-3	Chloroethane	4.72	U
75-09-2	Methylene Chloride	14.18	B
67-64-1	Acetone	36.67	
75-15-0	Carbon Disulfide	4.72	U
75-35-4	1,1-Dichloroethene	4.72	U
75-34-3	1,1-Dichloroethane	4.72	U
67-66-3	Chloroform	4.72	U
107-06-2	1,2-Dichloroethane	4.72	U
78-93-3	2-Butanone	23.59	U
71-55-6	1,1,1-Trichloroethane	4.72	U
56-23-5	Carbon Tetrachloride	4.72	U
108-05-4	Vinyl Acetate	9.43	U
75-27-4	Bromodichloromethane	4.72	U
78-87-5	1,2-Dichloropropane	4.72	U
10061-01-5	cis-1,3-Dichloropropene	4.72	U
79-01-6	Trichloroethene	4.72	U
124-48-1	Dibromochloromethane	4.72	U
79-00-5	1,1,2-Trichloroethane	4.72	U
71-43-2	Benzene	4.72	U
10061-02-6	trans-1,3-Dichloropropene	4.72	U
75-25-2	Bromoform	4.72	U
108-10-1	4-Methyl-2-Pentanone	23.59	U
591-78-6	2-Hexanone	23.59	U
127-18-4	Tetrachloroethene	4.72	U
79-34-5	1,1,2,2-Tetrachloroethane	4.72	U
108-88-3	Toluene	4.72	U
108-90-7	Chlorobenzene	4.72	U
100-41-4	Ethylbenzene	4.72	U
100-42-5	Styrene	4.72	U
1330-20-7	Xylene (total)	4.72	U

EPA Sample No
B-15-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 4996

Sample wt/vol: 5.00 (g/mL) g Lab File ID: FIL4996

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 9 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 0.9

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	---	unkown	1.02	408	---
2.					
3.					
4.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-16-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4998

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL4998.D

Level: (low/med) low__ Date Received: 06/17/91

% Moisture: not dec. 25 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Cholormethane	4.81	U
74-83-9	Bromomethane	4.81	U
75-01-4	Vinyl Chloride	4.81	U
75-00-3	Chloroethane	4.81	U
75-09-2	Methylene Chloride	13.01	B
67-64-1	Acetone	389.47	E
75-15-0	Carbon Disulfide	5.51	—
75-35-4	1,1-Dichloroethene	4.81	U
75-34-3	1,1-Dichloroethane	4.81	U
67-66-3	Chloroform	4.81	U
107-06-2	1,2-Dichloroethane	4.81	U
78-93-3	2-Butanone	24.04	U
71-55-6	1,1,1-Trichloroethane	4.81	U
56-23-5	Carbon Tetrachloride	4.81	U
108-05-4	Vinyl Acetate	9.62	U
75-27-4	Bromodichloromethane	4.81	U
78-87-5	1,2-Dichloropropane	4.81	U
10061-01-5	cis-1,3-Dichloropropene	4.81	U
79-01-6	Trichloroethene	4.81	U
124-48-1	Dibromochloromethane	4.81	U
79-00-5	1,1,2-Trichloroethane	4.81	U
71-43-2	Benzene	4.81	U
10061-02-6	trans-1,3-Dichloropropene	4.81	U
75-25-2	Bromoform	4.81	U
108-10-1	4-Methyl-2-Pentanone	24.04	U
591-78-6	2-Hexanone	24.04	U
127-18-4	Tetrachloroethene	4.81	U
79-34-5	1,1,2,2-Tetrachloroethane	4.81	U
108-88-3	Toluene	4.81	U
108-90-7	Chlorobenzene	4.81	U
100-41-4	Ethylbenzene	4.81	U
100-42-5	Styrene	4.81	U
1330-20-7	Xylene (total)	4.81	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 4998

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL4998

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 25 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	---	unknown	1.02	684	
2.					
3.					
4.					
5.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-16-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4997

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL4997.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 6 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 0.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Cholormethane	4.24	U
74-83-9	Bromomethane	4.24	U
75-01-4	Vinyl Chloride	4.24	U
75-00-3	Chloroethane	4.24	U
75-09-2	Methylene Chloride	10.04	9JB
67-64-1	Acetone	21.19	13J
75-15-0	Carbon Disulfide	4.24	1J
75-35-4	1,1-Dichloroethene	4.24	U
75-34-3	1,1-Dichloroethane	4.24	U
67-66-3	Chloroform	4.24	U
107-06-2	1,2-Dichloroethane	4.24	U
78-93-3	2-Butanone	21.19	U
71-55-6	1,1,1-Trichloroethane	4.24	U
56-23-5	Carbon Tetrachloride	4.24	U
108-05-4	Vinyl Acetate	8.47	U
75-27-4	Bromodichloromethane	4.24	U
78-87-5	1,2-Dichloropropane	4.24	U
10061-01-5	cis-1,3-Dichloropropene	4.24	U
79-01-6	Trichloroethene	4.24	U
124-48-1	Dibromochloromethane	4.24	U
79-00-5	1,1,2-Trichloroethane	4.24	U
71-43-2	Benzene	4.24	U
10061-02-6	trans-1,3-Dichloropropene	4.24	U
75-25-2	Bromoform	4.24	U
108-10-1	4-Methyl-2-Pentanone	21.19	U
591-78-6	2-Hexanone	21.19	U
127-18-4	Tetrachloroethene	4.24	U
79-34-5	1,1,2,2-Tetrachloroethane	4.24	U
108-88-3	Toluene	4.24	U
108-90-7	Chlorobenzene	4.24	U
100-41-4	Ethylbenzene	4.24	U
100-42-5	Styrene	4.24	U
1330-20-7	Xylene (total)	4.24	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 4997

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL4997

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 6 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 0.8

Number TICs Found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.02	341	
2.	110-54-3	Hexane	1.88	16	
3.					
4.					
5.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-17-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4999

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL4999.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 14 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Cholormethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	10.47	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	U
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 4999

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL4999

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 14 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.02	526	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-17-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5000

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5000.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 16 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Choloromethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	10.07	,B
67-64-1	Acetone	25.00	17J
75-15-0	Carbon Disulfide	5.00	1J
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

EPA Sample No

B-17-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5000

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5000

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 16 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.02	337	
2.					
3.					
4.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-18-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5005

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5005R.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 13 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Choloromethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	23.90	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	2J
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	5.00	U
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

EPA Sample No
B-18-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5005

Sample wt/vol: 5.00 (g/mL) g Lab File ID: FIL5005

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 13 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.01	503	
2.	—	unknown	21.30	17	
3.	535-77-3	Benzene, 1-methyl-3-(1-methyl)	22.15	21	
4.	91-17-8	Naphthalene, decahydro	22.39	6	
5.	4706-89-2	Benzene,2,4-dimethyl-1-(1-Met)	22.69	10	
6.	—	unknown	23.50	7	
7.	—	unknown	23.75	5	
8.					
9.					
10.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-18-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5006

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5006.D

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 13 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 0.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
74-87-3	Choloromethane	4.55	U	
74-83-9	Bromomethane	4.55	U	
75-01-4	Vinyl Chloride	4.55	U	
75-00-3	Chloroethane	4.55	U	
75-09-2	Methylene Chloride	10.16		B
67-64-1	Acetone	22.73	U	
75-15-0	Carbon Disulfide	4.55	U	
75-35-4	1,1-Dichloroethene	4.55	U	
75-34-3	1,1-Dichloroethane	4.55	U	
67-66-3	Chloroform	4.55	U	
107-06-2	1,2-Dichloroethane	4.55	U	
78-93-3	2-Butanone	22.73	U	
71-55-6	1,1,1-Trichloroethane	4.55	U	
56-23-5	Carbon Tetrachloride	4.55	U	
108-05-4	Vinyl Acetate	9.09	U	
75-27-4	Bromodichloromethane	4.55	U	
78-87-5	1,2-Dichloropropane	4.55	U	
10061-01-5	cis-1,3-Dichloropropene	4.55	U	
79-01-6	Trichloroethene	4.55	U	
124-48-1	Dibromochloromethane	4.55	U	
79-00-5	1,1,2-Trichloroethane	4.55	U	
71-43-2	Benzene	4.55	U	
10061-02-6	trans-1,3-Dichloropropene	4.55	U	
75-25-2	Bromoform	4.55	U	
108-10-1	4-Methyl-2-Pentanone	22.73	U	
591-78-6	2-Hexanone	22.73	U	
127-18-4	Tetrachloroethene	4.55	U	
79-34-5	1,1,2,2-Tetrachloroethane	4.55	U	
108-88-3	Toluene	4.55	U	
108-90-7	Chlorobenzene	4.55	U	
100-41-4	Ethylbenzene	4.55	U	
100-42-5	Styrene	4.55	U	
1330-20-7	Xylene (total)	4.55	U	

EPA Sample No
B-18-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5006

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5006

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 13 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 0.9

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	---	unknown	1.02	367	
2.					
3.					
4.					
5.					
6.					
7.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-19-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5001

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5001R.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 23 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Choloromethane	5.00	U
74-83-9	Bromomethane	5.00	U
75-01-4	Vinyl Chloride	5.00	U
75-00-3	Chloroethane	5.00	U
75-09-2	Methylene Chloride	28.14	B
67-64-1	Acetone	25.00	U
75-15-0	Carbon Disulfide	5.00	4J
75-35-4	1,1-Dichloroethene	5.00	U
75-34-3	1,1-Dichloroethane	5.00	U
67-66-3	Chloroform	6.77	
107-06-2	1,2-Dichloroethane	5.00	U
78-93-3	2-Butanone	25.00	U
71-55-6	1,1,1-Trichloroethane	5.00	U
56-23-5	Carbon Tetrachloride	5.00	U
108-05-4	Vinyl Acetate	10.00	U
75-27-4	Bromodichloromethane	5.00	U
78-87-5	1,2-Dichloropropane	5.00	U
10061-01-5	cis-1,3-Dichloropropene	5.00	U
79-01-6	Trichloroethene	5.00	U
124-48-1	Dibromochloromethane	5.00	U
79-00-5	1,1,2-Trichloroethane	5.00	U
71-43-2	Benzene	5.00	U
10061-02-6	trans-1,3-Dichloropropene	5.00	U
75-25-2	Bromoform	5.00	U
108-10-1	4-Methyl-2-Pentanone	25.00	U
591-78-6	2-Hexanone	25.00	U
127-18-4	Tetrachloroethene	5.00	5J
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U
108-88-3	Toluene	5.00	U
108-90-7	Chlorobenzene	5.00	U
100-41-4	Ethylbenzene	5.00	U
100-42-5	Styrene	5.00	U
1330-20-7	Xylene (total)	5.00	U

EPA Sample No
B-19-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5001

Sample wt/vol: 5.00 (g/mL) g Lab File ID: FIL5001

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 23 Date Analyzed: 06/21/91

Column: (pack/cap) cap Dilution Factor: 1.0

Number TICs Found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	---	unknown	1.02	678	
2.	508-32-7	Tricyclene	15.47	65	
3.	80-56-8	Alpha-pinene	16.31	139	
4.	---	1,1,2,3-Tetramethylcyclohexane	17.13	69	
5.	79-92-5	Camphene	17.50	239	
6.	124-18-5	Decane	19.24	61	
7.	99-87-6	Benzene,1-methyl-4-(1-methyl)	22.04	213	
8.	91-17-8	Naphthalene, decahydro	22.38	70	
9.	61141-80-8	Cyclohexane, 1,2-diethyl-3-met	22.62	55	
10.	1120-21-4	Undecane	22.84	91	
11.					
12.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-19-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5002

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5002.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 19 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 0.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Cholorometh ane	4.17	U
74-83-9	Bromomethane	4.17	U
75-01-4	Vinyl Chloride	4.17	U
75-00-3	Chloroethane	4.17	U
75-09-2	Methylene Chloride	8.63	B
67-64-1	Acetone	20.83	18J
75-15-0	Carbon Disulfide	4.17	1J
75-35-4	1,1-Dichloroethene	4.17	U
75-34-3	1,1-Dichloroethane	4.17	U
67-66-3	Chloroform	6.87	
107-06-2	1,2-Dichloroethane	4.17	U
78-93-3	2-Butanone	20.83	U
71-55-6	1,1,1-Trichloroethane	4.17	U
56-23-5	Carbon Tetrachloride	4.17	U
108-05-4	Vinyl Acetate	8.33	U
75-27-4	Bromodichloromethane	4.17	U
78-87-5	1,2-Dichloropropane	4.17	U
10061-01-5	cis-1,3-Dichloropropene	4.17	U
79-01-6	Trichloroethene	4.17	U
124-48-1	Dibromochloromethane	4.17	U
79-00-5	1,1,2-Trichloroethane	4.17	U
71-43-2	Benzene	4.17	U
10061-02-6	trans-1,3-Dichloropropene	4.17	U
75-25-2	Bromoform	4.17	U
108-10-1	4-Methyl-2-Pentanone	20.83	U
591-78-6	2-Hexanone	20.83	U
127-18-4	Tetrachloroethene	4.17	4J
79-34-5	1,1,2,2-Tetrachloroethane	4.17	U
108-88-3	Toluene	4.17	U
108-90-7	Chlorobenzene	4.17	U
100-41-4	Ethylbenzene	4.17	U
100-42-5	Styrene	4.17	U
1330-20-7	Xylene (total)	4.17	U

EPA Sample No
B-19-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5002

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5002

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 19 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 0.8

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.01	579	—
2.					
3.					
4.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-20-1

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5003

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5003.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 12 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 0.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Choloromethane	4.63	U
74-83-9	Bromomethane	4.63	U
75-01-4	Vinyl Chloride	4.63	U
75-00-3	Chloroethane	4.63	U
75-09-2	Methylene Chloride	9.26	9J,B
67-64-1	Acetone	23.15	U
75-15-0	Carbon Disulfide	4.63	U
75-35-4	1,1-Dichloroethene	4.63	U
75-34-3	1,1-Dichloroethane	4.63	U
67-66-3	Chloroform	4.63	U
107-06-2	1,2-Dichloroethane	4.63	U
78-93-3	2-Butanone	23.15	U
71-55-6	1,1,1-Trichloroethane	4.63	U
56-23-5	Carbon Tetrachloride	4.63	U
108-05-4	Vinyl Acetate	9.26	U
75-27-4	Bromodichloromethane	4.63	U
78-87-5	1,2-Dichloropropane	4.63	U
10061-01-5	cis-1,3-Dichloropropene	4.63	U
79-01-6	Trichloroethene	4.63	U
124-48-1	Dibromochloromethane	4.63	U
79-00-5	1,1,2-Trichloroethane	4.63	U
71-43-2	Benzene	4.63	U
10061-02-6	trans-1,3-Dichloropropene	4.63	U
75-25-2	Bromoform	4.63	U
108-10-1	4-Methyl-2-Pentanone	23.15	U
591-78-6	2-Hexanone	23.15	U
127-18-4	Tetrachloroethene	4.63	U
79-34-5	1,1,2,2-Tetrachloroethane	4.63	U
108-88-3	Toluene	4.63	U
108-90-7	Chlorobenzene	4.63	U
100-41-4	Ethylbenzene	4.63	U
100-42-5	Styrene	4.63	U
1330-20-7	Xylene (total)	4.63	U

EPA Sample No

B-20-1'

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5003

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5003

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 12 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 0.9

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	---	unknown	1.02	263	
2.					
3.					
4.					
5.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-20-2

Lab Name: ADVANCED ENVIRONMENTAL SE Contract: _____

Lab Code: FIL Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 5004

Sample wt/vol: 5.00 (g/mL) G Lab File ID: FIL5004.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 15 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 0.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Choloromethane	4.63	U
74-83-9	Bromomethane	4.63	U
75-01-4	Vinyl Chloride	4.63	U
75-00-3	Chloroethane	4.63	U
75-09-2	Methylene Chloride	9.26	10.16/B
67-64-1	Acetone	23.15	U
75-15-0	Carbon Disulfide	4.63	U
75-35-4	1,1-Dichloroethene	4.63	U
75-34-3	1,1-Dichloroethane	4.63	U
67-66-3	Chloroform	4.63	U
107-06-2	1,2-Dichloroethane	4.63	U
78-93-3	2-Butanone	23.15	U
71-55-6	1,1,1-Trichloroethane	4.63	U
56-23-5	Carbon Tetrachloride	4.63	U
108-05-4	Vinyl Acetate	9.26	U
75-27-4	Bromodichloromethane	4.63	U
78-87-5	1,2-Dichloropropane	4.63	U
10061-01-5	cis-1,3-Dichloropropene	4.63	U
79-01-6	Trichloroethene	4.63	U
124-48-1	Dibromochloromethane	4.63	U
79-00-5	1,1,2-Trichloroethane	4.63	U
71-43-2	Benzene	4.63	U
10061-02-6	trans-1,3-Dichloropropene	4.63	U
75-25-2	Bromoform	4.63	U
108-10-1	4-Methyl-2-Pentanone	23.15	U
591-78-6	2-Hexanone	23.15	U
127-18-4	Tetrachloroethene	4.63	U
79-34-5	1,1,2,2-Tetrachloroethane	4.63	U
108-88-3	Toluene	4.63	U
108-90-7	Chlorobenzene	4.63	U
100-41-4	Ethylbenzene	4.63	U
100-42-5	Styrene	4.63	U
1330-20-7	Xylene (total)	4.63	U

1E EPA Sample No

B-20-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5004

Sample wt/vol: 5.00 (g/mL)g Lab File ID: FIL5004

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 15 Date Analyzed: 06/19/91

Column: (pack/cap) cap Dilution Factor: 0.9

Number TICs Found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	1.02	305	
2.	91-57-6	Naphthalene, 2-methyl	22.99	10	
3.					
4.					
5.					
6.					
7.					
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Exhibit 7

Semivolatile Organics

Analysis Data Sheets

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET Trip Blank

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Water Lab Sample ID: 5106

Sample wt/vol: 1.0 (g/mL)ml Lab File ID: 6240401003.D

Level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. dec. Date Extracted: 06/22/91

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 06/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

00404

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Water Lab Sample ID: 5106

Sample wt/vol: 1.0 (g/mL)mL Lab File ID: 6240401003.D

Level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. dec. Date Extracted: 06/22/91

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 06/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/l	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine [1]	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

[1] - Cannot be separated from Diphenylamine

00403

1F

EPA Sample No

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

Trip Blank

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: 5106

Sample wt/vol: 1.0 (g/mL)mL Lab File ID: 6240401003.D

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 6/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

Number TICs Found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	----	unknown	6.29	2700	
2.	----	unknown	6.43	2270	
3.	123-42-2	2-Pentanone,4-hydroxy-4-methyl	6.92	1350	
4.	21944-48-7	1,12-Tridecadiene	18.91	74000	
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
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16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

EPA SAMPLE NO.

Method Blank

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc.

Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil

Lab Sample ID: Method Blank

Sample wt/vol: 30 (g/mL)g

Lab File ID: Blank 7-5.d

Level: (low/med) low

Date Received: —

% Moisture: not dec. — dec.

Date Extracted: 6/18/91

Extraction: (SepF/Cont/Sonc) sonc

Date Analyzed: 7/05/91

GPC Cleanup: (Y/N) n pH

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	1600.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

EPA Sample No

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Method Blank

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: Method Blank

Sample wt/vol: 30 (g/mL) g Lab File ID: BLANK7-5

level: (low/med) low Date Received: —

% Moisture: not dec. — dec. Date Extracted: 6/18/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/05/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

EPA SAMPLE NO.

Method Blank

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: Method Blank

Sample wt/vol: 1.00 (g/mL)g Lab File ID: Blank 6-22

Level: (low/med) low Date Received: —

% Moisture: not dec. — dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 6/22/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	1600.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

EPA Sample No

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Method Blank

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: Method Blank

Sample wt/vol: 1.00 (g/mL)ml Lab File ID: Blank 6-22.d

level: (low/med) low Date Received: —

% Moisture: not dec. — dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 6/22/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

EPA SAMPLE NO.

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

Method Blank

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: Method Blank

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 6240101001.d

Level: (low/med) low Date Received: —

% Moisture: not dec. — dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 6/24/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	330.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

EPA Sample No

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Method Blank

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: Method Blank

Sample wt/vol: 30 (g/mL) g Lab File ID: 6240101001.D

level: (low/med) low Date Received: —

% Moisture: not dec. — dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET B-1-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5102

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7160501005.D

Level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. 17 dec. Date Extracted: 06/22/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/16/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	1600.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

00410

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5102

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7160501005.D

level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. 17 dec. Date Extracted: 06/27/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/16/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

00411

1F

EPA Sample No

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

B-1-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL 5102

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7160501005.d

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 17 dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/16/91

GC Cleanup: (Y/N) n pH Dilution Factor: 1.0

Number TICs Found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	————	Unknown	17.15	350	
2.	————	Unknown	17.23	140	
3.	————	Unknown	17.44	400	
4.	————	Unknown	17.63	240	
5.	————	Unknown	17.74	220	
6.	————	Unknown	18.02	320	
7.	————	1,13-Tetradecadiene	18.90	840	
8.	————	Unknown	23.23	1400	
9.	————	Unknown	23.50	3400	
10.	————	Dipropylene Glycol Dibenzoate	23.78	320	
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET B-1-2

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5103

Sample wt/vol: 30.0 (g/mL) mL Lab File ID: 7260801008.D

Level: (low/med) low Date Received:

% Moisture: not dec. 16 dec. Date Extracted:

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	990.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5103

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 7260801008.D

level: (low/med) low Date Received:

% Moisture: not dec. 16 dec. Date Extracted:

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	(2500)
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET B-2-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5102

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7160501005.D

Level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. 17 dec. Date Extracted: 06/22/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/16/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	1600.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

00419

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5098

Sample wt/vol: 24.6 (g/mL) Lab File ID: 7170201002.D

level: (low/med) LOW Date Received: 06/19/91

% Moisture: not dec. 18 dec. Date Extracted: 06/22/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/17/91

GC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

00420

1F

EPA Sample No
B-2-1

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract: B-2-1

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5098

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7170201002.D

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 18 dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/17/91

GC Cleanup: (Y/N) n pH Dilution Factor: 1.0

Number TICs Found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	5.47	450	
2.	—	unknown	5.61	1700	
3.	—	unknown	5.69	480	
4.	—	unknown	6.03	460	
5.	—	unknown	6.15	2200	
6.	—	unknown	6.46	440	
7.	—	unknown	6.97	640	
8.	—	unknown	7.93	1200	
9.	—	unknown	12.88	340	
10.	—	unknown	6.62	2400	
11.					
12.					
13.					
14.					
15.					
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17.					
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19.					
20.					
21.					
22.					
23.					
24.					

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET B-2-2

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: 5099

Sample wt/vol: 30.3 (g/mL) mL Lab File ID: 7260301003.D

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 16 dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/26/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	990.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: 5099

Sample wt/vol: 30.3 (g/mL) mL Lab File ID: 7260301003.D

level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 16 dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/26/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	1500
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: 5100

Sample wt/vol: 30.2 (g/mL)g Lab File ID: 7170501005.d

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 16 dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 07/17/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	1600.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	330.00	U
131-11-3	Dimethylphthalate	1600.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

00428

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL 5100

Sample wt/vol: 30.2 (g/mL)g Lab File ID: 7170501005.d

level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 16 dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 07/17/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	(1200)
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	(1500)
129-00-0	Pyrene	330.00	(1600)
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	920
218-01-9	Chrysene	330.00	(820)
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	300.00	U

[1] - Cannot be separated from Diphenylamine

00429

EPA Sample No

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

B-3-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL 5100

Sample wt/vol: 30.2 (g/mL)g Lab File ID: 7170501005.d

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 16 dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/17/91

GC Cleanup: (Y/N) n pH Dilution Factor: 1.0

Number TICs Found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	----------	Unknown	5.64	3100	
2.	556-82-1	2-Buten-1-01,3-methyl	5.88	920	
3.	----------	Unknown	6.17	2700	
4.	----------	Unknown	6.62	2500	
5.	----------	Unknown	6.99	1600	
6.	----------	Unknown	7.93	1200	
7.	----------	Unknown	18.46	910	
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

00431

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET B-3-2

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: 5101

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 7260401004.D

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 22 dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	990.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: 5101

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 7260401004.D

level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 22 dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5085

Sample wt/vol: 30.2 (g/mL)g Lab File ID: 7160701007.D

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 14 dec. Date Extracted: 06/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/16/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	1600.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

00447

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5085

Sample wt/vol: 30.2 (g/mL)g Lab File ID: 7160701007.D

level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 14 dec. Date Extracted: 06/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/16/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	1300
120-12-7	Anthracene	330.00	400
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	1400
129-00-0	Pyrene	330.00	1400
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	730
218-01-9	Chrysene	330.00	640
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

00448

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET B-4-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL 5085

Sample wt/vol: 30.2 (g/mL)g Lab File ID: 7160701007.d

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 14 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/16/91

GC Cleanup: (Y/N) n pH Dilution Factor: 1.0

Number TICs Found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	————	Unknown	5.59	970	
2.	----------	Unknown	16.90	230	
3.	86-74-8	pH-Carbazole	17.72	220	
4.	----------	Unknown	18.48	330	
5.	612-94-2	Naphthalene,2-phenyl	18.76	360	
6.	143-28-2	9-Octadecen-1-01,(Z)	18.92	210	
7.	2381-21-7	Pyrene,1-methyl	20.77	210	
8.	2381-21-7	Pyrene,1-methyl	21.06	410	
9.	————	Unknown	21.37	390	
10.	----------	Unknown	28.80	480	
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

00449

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET B-4-2

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5086

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 6220201002.d

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 15 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 6/22/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	990.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5086

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 6220201002.d

level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 15 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 6/22/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5083

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 6240301002.D

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 9 dec. Date Extracted: 06/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 06/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	1600.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

00468

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5083

Sample wt/vol: 30.0 (g/mL) Lab File ID: 6240301002.D

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 9 dec. Date Extracted: 06/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 06/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	300.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	300.00	U
121-14-2	2,4-Dinitrotoluene	300.00	U
84-66-2	Diethylphthalate	300.00	U
7005-72-3	4-Chlorophenyl-phenylether	300.00	U
86-73-7	Fluorene	300.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	300.00	U
101-55-3	4-Bromophenyl-phenylether	300.00	U
118-74-1	Hexachlorobenzene	300.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	300.00	U
120-12-7	Anthracene	300.00	U
84-74-2	Di-n-butylphthalate	300.00	U
206-44-0	Fluoranthene	300.00	360
129-00-0	Pyrene	300.00	U
85-68-7	Butylbenzylphthalate	300.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	300.00	U
218-01-9	Chrysene	300.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	300.00	U
117-84-0	Di-n-octylphthalate	300.00	U
205-99-2	Benzo(b)fluoranthene	300.00	U
207-08-9	Benzo(k)fluoranthene	300.00	U
50-32-8	Benzo(a)pyrene	300.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	300.00	U
53-70-3	Dibenz(a,h)anthracene	300.00	U
191-24-2	Benzo(g,h,i)perylene	300.00	U

[1] - Cannot be separated from Diphenylamine

00469

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET B-5-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL5083

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 6240301002.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 9 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/24/91

GC Cleanup: (Y/N) N pH Dilution Factor: 1.0

Number TICs Found: 15 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	5.51	220	
2.	—	unknown	5.64	750	
3.	—	unknown	5.73	185	
4.	—	unknown	6.18	160	
5.	—	unknown	6.50	150	
6.	—	unknown	6.65	180	
7.	—	unknown	6.99	150	
8.	—	unknown	7.97	290	
9.	—	unknown	10.84	150	
10.	—	unknown	11.39	137	
11.	593-45-3	Octadecane	16.90	150	
12.	638-36-8	Hexadecane, 1,6,10,14-tetramet	17.00	81	
13.	629-59-4	Tetradecane	17.66	87	
14.	21964-49-8	1,13,Tetradecadiene	18.92	270	
15.	301-02-0	9-Octadecenamide (2)	28.81	440	
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET B-5-2

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5084

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 7260601006.D

Level: (low/med) low Date Received:

% Moisture: not dec. 13 dec. Date Extracted:

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	990.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5084

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 7260601006.D

level: (low/med) low Date Received:

% Moisture: not dec. 13 dec. Date Extracted:

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	450
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	1200
120-12-7	Anthracene	330.00	390
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	1600
129-00-0	Pyrene	330.00	1500
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	1700
218-01-9	Chrysene	330.00	1600
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	240
207-08-9	Benzo(k)fluoranthene	330.00	1600
50-32-8	Benzo(a)pyrene	330.00	1500
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	650
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	450

[1] - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: FIL5104

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 7170601006.D

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 20 dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/17/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: Ug/kg	Q
108-95-2	Phenol	1650.00	U
111-44-4	bis(2-Chloroethyl)ether	1650.00	U
95-57-8	2-Chlorophenol	1650.00	U
541-73-1	1,3-Dichlorobenzene	1650.00	U
106-46-7	1,4-Dichlorobenzene	1650.00	U
100-51-6	Benzyl Alcohol	1650.00	U
95-50-1	1,2-Dichlorobenzene	1650.00	U
95-48-7	2-Methylphenol	1650.00	U
106-44-5	4-Methylphenol	1650.00	U
621-64-7	N-Nitroso-di-n-propylamine	1650.00	U
67-72-1	Hexachloroethane	1650.00	U
98-95-3	Nitrobenzene	1650.00	U
78-59-1	Isophorone	1650.00	U
88-75-5	2-Nitrophenol	1650.00	U
105-67-9	2,4-Dimethylphenol	1650.00	U
65-85-0	Benzoic Acid	8000.00	U
111-91-1	bis(2-Chloroethoxy)methane	1650.00	U
120-83-2	2,4-Dichlorophenol	16350.00	U
120-82-1	1,2,4-Trichlorobenzene	1650.00	U
91-20-3	Naphthalene	1650.00	U
106-47-8	4-Chloroaniline	1650.00	U
87-68-3	Hexachlorobutadiene	1650.00	U
59-50-7	4-Chloro-3-methylphenol	1650.00	U
91-57-6	2-Methylnaphthalene	1650.00	U
77-47-4	Hexachlorocyclopentadiene	1650.00	U
88-06-2	2,4,6-Trichlorophenol	1650.00	U
95-95-4	2,4,5-Trichlorophenol	1650.00	U
91-58-7	2-Chloronaphthalene	1650.00	U
88-74-4	2-Nitroaniline	8000.0	U
131-11-3	Dimethylphthalate	1650.00	U
208-96-8	Acenaphthylene	1650.00	U
606-20-2	2,6-Dinitrotoluene	1650.00	U

00482

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: FIL 5104

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7170601006.d

level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 20 dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/17/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroanlline	1650.00	U
83-32-9	Acenaphthene	1650.00	U
51-28-5	2,4-Dinitrophenol	1650.00	U
100-02-7	4-Nitrophenol	1650.00	U
132-64-9	Dibenzofuran	1650.00	U
121-14-2	2,4-Dinitrotoluene	1650.00	U
84-66-2	Diethylphthalate	1650.00	U
7005-72-3	4-Chlorophenyl-phenylether	1650.00	U
86-73-7	Fluorene	1650.00	U
100-01-6	4-Nitroaniline	1650.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1650.00	U
86-30-6	N-Nitrosodiphenylamine [1]	1650.00	U
101-55-3	4-Bromophenyl-phenylether	1650.00	U
118-74-1	Hexachlorobenzene	1650.00	U
87-86-5	Pentachlorophenol	1650.00	U
85-01-8	Phenanthrene	1650.00	6100 JS
120-12-7	Anthracene	1650.00	U
84-74-2	Di-n-butylphthalate	1650.00	U
206-44-0	Fluoranthene	1650.00	6900 JS
129-00-0	Pyrene	1650.00	8200 JS
85-68-7	Butylbenzylphthalate	1650.00	U
91-94-1	3,3'-Dichlorobenzidine	1650.00	U
56-55-3	Benzo(a)anthracene	1650.00	3200 JS
218-01-9	Chrysene	1650.00	3100 JS
117-81-7	bis(2-Ethylhexyl)phthalate	1650.00	U
117-84-0	Di-n-octylphthalate	1650.00	U
205-99-2	Benzo(b)fluoranthene	1650.00	U
207-08-9	Benzo(k)fluoranthene	1650.00	U
50-32-8	Benzo(a)pyrene	1650.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	1650.00	U
53-70-3	Dibenz(a,h)anthracene	1650.00	U
191-24-2	Benzo(g,h,i)perylene	1650.00	U

[1] - Cannot be separated from Diphenylamine

00483

EPA Sample No

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

B-6-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL 5104

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7170601006.d

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 20 dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/17/91

GC Cleanup: (Y/N) n pH Dilution Factor: 5.0

Number TICs Found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	----------	Unknown	5.59	1700	
2.	----------	Unknown	6.13	4100	
3.	----------	Unknown	6.59	2600	
4.	----------	Unknown	6.95	1500	
5.	319-85-7	Cyclohexane, 1,2,3,4,5,6-hexac	16.98	1300	
6.	86-74-8	9H-Carbazole	17.69	1400	
7.	203-64-5	4H-Cyclopenta [def] phenanthrene	18.46	1800	
8.	21964-49-8	1,13-Tetradecadiene	18.88	1100	
9.	2381-21-7	Pyrene,1-methyl-	21.01	4800	
10.	----------	Unknown	24.17	32000	
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: 5105

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 7260501005.D

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 20 dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	990.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: 5105

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 7260501005.D

level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 20 dec. Date Extracted: 6/22/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	1500
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5075

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7160601006.D

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 11 dec. Date Extracted: 07/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/16/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	1600.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

00501

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Water Lab Sample ID: 5075

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7160601006.D

level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 11 dec. Date Extracted: 06/20/91

Extraction: (SepF/Cont/Sonc) Date Analyzed: 07/16/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	370
129-00-0	Pyrene	330.00	330
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

00502

1F

EPA Sample No

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

B-7-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL 5075

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7160601006.d

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 11 dec. Date Extracted: 7/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/16/91

GC Cleanup: (Y/N) n pH Dilution Factor: 1.0

Number TICs Found: 8 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	————	Unknown	5.59	380	
2.	————	Unknown	6.18	5300	
3.	————	Unknown	6.47	280	
4.	————	Unknown	6.65	4600	
5.	————	Methyl - Phenanthrene or methyl	18.29	140	
6.	————	Unknown	18.48	120	
7.	21964-49-8	1,13-Tetradecadiene	18.91	200	
8.	————	Unknown	28.79	393	
9.	————	Unknown	6.98	480	
10.					
11.					
12.					
13.					
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23.					
24.					

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET B-7-2

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5076

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 6240701006.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 11 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	990.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5076

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 6240701006.D

level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 11 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET B-8-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5077

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 6240501004.D

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 16 dec. Date Extracted: 06/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 06/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	1600.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

00514

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5077

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 6240501004.D

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 16 dec. Date Extracted: 06/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 06/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroanaline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	460
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

00515

EPA Sample No

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

B-8-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL5077

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 6240501004.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 16 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/24/91

GC Cleanup: (Y/N) N pH Dilution Factor: 1.0

Number TICs Found: 13 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	5.51	3200	
2.	—	unknown	5.64	11000	
3.	—	unknown	6.18	6200	
4.	—	unknown	6.50	3500	
5.	—	unknown	6.65	5700	
6.	—	unknown	7.96	5200	
7.	—	unknown	10.84	200	
8.	92639-28-6	6-chloro-2-heptene	11.39	120	
9.	21964-49-8	1,13-Tetradecadiene	18.91	1200	
10.	301-02-0	9-Octadecenamide (2)	21.72	75	
11.	—	Dipropylene Glycol Dibenzoate	23.24	310	
12.	—	unknown	23.48	700	
13.	—	unknown	28.81	590	
14.					
15.					
16.					
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23.					
24.					

00516

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

B-8-2

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5078

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 6240601005.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 16 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	990.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5078

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 6240601005.D

level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 16 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	810
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5079

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 6220401004.D

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 23 dec. Date Extracted: 06/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 06/22/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	1600.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

00528

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5079

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 6220401004.D

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 23 dec. Date Extracted: 06/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 06/22/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.0	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

00529

EPA Sample No

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

B-9-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL 5079

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 6220401004.d

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 23 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 6/22/91

GC Cleanup: (Y/N) n pH Dilution Factor: 1.0

Number TICs Found: 13 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	————	Unknown	5.74	88	
2.	————	Unknown	6.38	75	
3.	————	Unknown	6.53	83	
4.	————	Unknown	6.59	76	
5.	————	Unknown	7.02	65	
6.	————	Unknown	17.78	250	
7.	————	Unknown	18.51	1700	
8.	————	Unknown	18.63	1100	
9.	21964-49-8	1,13 Tetradecadiene	19.08	150	
10.	301-02-0	9-octadecenamide	21.96	94	
11.	————	Di Propylene Glycoldibenzoate	23.52	190	
12.	————	Unknown	23.76	490	
13.	————	Unknown	29.36	2300	
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: 5080

Sample wt/vol: 30.2 (g/mL) mL Lab File ID: 7260701007.D

Level: (low/med) low Date Received:

% Moisture: not dec. 18 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	990.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: 5080

Sample wt/vol: 30.2 (g/mL) mL Lab File ID: 7260701007.D

level: (low/med) low Date Received:

% Moisture: not dec. 18 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	300.00	U
191-24-2	Benzo(g,h,i)perylene	300.00	U

[1] - Cannot be separated from Diphenylamine

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL 5081

Sample wt/vol: 30.2 (g/mL)g Lab File ID: 7170701007.d

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 5 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 07/17/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	1650.00	U
111-44-4	bis(2-Chloroethyl)ether	1650.00	U
95-57-8	2-Chlorophenol	1650.00	U
541-73-1	1,3-Dichlorobenzene	1650.00	U
106-46-7	1,4-Dichlorobenzene	1650.00	U
100-51-6	Benzyl Alcohol	1650.00	U
95-50-1	1,2-Dichlorobenzene	1650.00	U
95-48-7	2-Methylphenol	1650.00	U
106-44-5	4-Methylphenol	1650.00	U
621-64-7	N-Nitroso-di-n-propylamine	1650.00	U
67-72-1	Hexachloroethane	1650.00	U
98-95-3	Nitrobenzene	1650.00	U
78-59-1	Isophorone	1650.00	U
88-75-5	2-Nitrophenol	1650.00	U
105-67-9	2,4-Dimethylphenol	1650.00	U
65-85-0	Benzoic Acid	8000.00	U
111-91-1	bis(2-Chloroethoxy)methane	1650.00	U
120-83-2	2,4-Dichlorophenol	1650.00	U
120-82-1	1,2,4-Trichlorobenzene	1650.00	U
91-20-3	Naphthalene	1650.00	U
106-47-8	4-Chloroaniline	1650.00	U
87-68-3	Hexachlorobutadiene	1650.00	U
59-50-7	4-Chloro-3-methylphenol	1650.00	U
91-57-6	2-Methylnaphthalene	1650.00	U
77-47-4	Hexachlorocyclopentadiene	1650.00	U
88-06-2	2,4,6-Trichlorophenol	1650.00	U
95-95-4	2,4,5-Trichlorophenol	1650.00	U
91-58-7	2-Chloronaphthalene	1650.00	U
88-74-4	2-Nitroaniline	8000.00	U
131-11-3	Dimethylphthalate	1650.00	U
208-96-8	Acenaphthylene	1650.00	U
606-20-2	2,6-Dinitrotoluene	1650.00	U

00539

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL 5081

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 7170701007.d

level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 5 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 07/17/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	8000.00	U
83-32-9	Acenaphthene	1650.00	U
51-28-5	2,4-Dinitrophenol	8000.00	U
100-02-7	4-Nitrophenol	8000.00	U
132-64-9	Dibenzofuran	1650.00	U
121-14-2	2,4-Dinitrotoluene	1650.00	U
84-66-2	Diethylphthalate	1650.00	U
7005-72-3	4-Chlorophenyl-phenylether	1650.00	U
86-73-7	Fluorene	1650.00	U
100-01-6	4-Nitroaniline	8000.00	U
534-52-1	4,6-Dinitro-2-methylphenol	8000.00	U
86-30-6	N-Nitrosodiphenylamine [1]	1650.00	U
101-55-3	4-Bromophenyl-phenylether.	1650.00	U
118-74-1	Hexachlorobenzene	1650.00	U
87-86-5	Pentachlorophenol	8000.00	U
85-01-8	Phenanthrene	1650.00	U
120-12-7	Anthracene	1650.00	U
84-74-2	Di-n-butylphthalate	1650.00	U
206-44-0	Fluoranthene	1650.00	U
129-00-0	Pyrene	1650.00	U
85-68-7	Butylbenzylphthalate	1650.00	U
91-94-1	3,3'-Dichlorobenzidine	3300.00	U
56-55-3	Benzo(a)anthracene	1650.00	U
218-01-9	Chrysene	1650.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	1650.00	U
117-84-0	Di-n-octylphthalate	1650.00	U
205-99-2	Benzo(b)fluoranthene	1650.00	U
207-08-9	Benzo(k)fluoranthene	1650.00	U
50-32-8	Benzo(a)pyrene	1650.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	1650.00	U
53-70-3	Dibenz(a,h)anthracene	1650.00	U
191-24-2	Benzo(g,h,i)perylene	1650.00	U

[1] - Cannot be separated from Diphenylamine

00542

EPA Sample No

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

B-10-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL 5081

Sample wt/vol: 30.2 (g/mL)g Lab File ID: 7170701007.D

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 5 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/17/91

GC Cleanup: (Y/N) n pH Dilution Factor: 5.0

Number TICs Found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	6108-10-7	Cyclohexane 1,2,3,4,5,6-hexac	16.98	1600	
2.	629-92-5	Nonadecane	17.62	900	
3.	629-62-9	Pentadecane	19.07	1100	
4.	629-97-0	Docosane	19.87	980	
5.	638-67-5	Tricosane	20.76	1700	
6.	646-31-1	Tetracosane	21.81	1400	
7.	629-99-2	Pentacosane	23.06	2000	
8.	630-01-3	Hexacosane	24.56	1800	
9.	593-49-7	Heptacosane	26.42	1900	
10.	112-95-8	Eirosane	28.70	1600	
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

B-10-2

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5082

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 6220501005.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 18 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/22/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	990.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5082

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 6220501005.D

level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 18 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/22/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5007

Sample wt/vol: 22.3 (g/mL)g Lab File ID: 7160801008.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 26 dec. Date Extracted: 06/18/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/16/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: U ~~ug~~/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	1600.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

00548

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Water Lab Sample ID: 5007

Sample wt/vol: 22.3 (g/mL) Lab File ID: 7160801008.D

level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 26 dec. Date Extracted: 06/18/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/16/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	1600
120-12-7	Anthracene	330.00	480
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	1600
129-00-0	Pyrene	330.00	2400
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	900
218-01-9	Chrysene	330.00	810
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	350
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	330.00
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

00549

EPA Sample No

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

B-11-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5007

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7160801008.D

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 26 dec. Date Extracted: 6/18/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/16/91

GC Cleanup: (Y/N) n pH Dilution Factor: 1.0

Number TICs Found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	—	unknown	15.83	1700	
2.	—	unknown	16.64	990	
3.	—	unknown	17.02	780	
4.	—	unknown	18.60	550	
5.	21964-49-8	1,13-tetradecadiene	18.95	800	
6.	629-62-9	Pentadecane	19.12	690	
7.	3674-66-6	Phenanthrene,2,5-dimethyl	19.41	810	
8.	—	unknown	18.50	530	
9.	629-97-0	Decosane	19.91	640	
10.	638-67-5	Tricosane	20.81	620	
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SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET B-11-2

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5008

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 6220701007.D

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 18 dec. Date Extracted: 6/18/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/22/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	990.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5008

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 6220701007.D

level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 18 dec. Date Extracted: 6/18/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/22/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	330.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5069

Sample wt/vol: 30.3 (g/mL)g Lab File ID: 7160901009.D

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 14 dec. Date Extracted: 06/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/16/91

GpC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	1600.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

00574

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5069

Sample wt/vol: 30.3 (g/mL)g Lab File ID: 7160901009.D

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 14 dec. Date Extracted: 06/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/16/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	660
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	830
129-00-0	Pyrene	330.00	1400
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	470
218-01-9	Chrysene	330.00	420
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	340
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

00575

EPA Sample No

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

B-12-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL 5069

Sample wt/vol: 30.3 (g/mL)g Lab File ID: 7160901009.d

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 14 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/16/91

GC Cleanup: (Y/N) n pH Dilution Factor: 1.0

Number TICs Found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	55720-40-6	Naphthalene,2,3,6-trichloro	16.96	2100	
2.	----------	Unknown	17.13	1100	
3.	55720-40-6	Naphthalene, 2,3,6-trichloro	17.61	1400	
4.	53555-64-9	Naphthalene, 1,3,5,7-tetrachlo	18.00	730	
5.	55720-43-9	Naphthalene, 1,4,6,7-tetrachlo	18.49	810	
6.	53555-64-9	Naphthalene,1,3,5,7-tetrachlo	18.71	1200	
7.	----------	Unknown	18.94	520	
8.	53555-64-9	naphthalene,1,3,5,7-tetrachlo	19.02	910	
9.	53555-64-9	Naphthalene,1,3,5,7-tetrachlo	19.14	1400	
10.	55720-43-9	Naphthalene,1,4,6,7-tetrachlo	19.43	1400	
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Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5070

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 6220101001.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 12 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/22/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	990.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5070

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 6220101001.D

level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 12 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/22/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET B-13-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5071

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 6220801008.D

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 22 dec. Date Extracted: 06/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 06/22/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 3.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	990.00	U
111-44-4	bis(2-Chloroethyl)ether	990.00	U
95-57-8	2-Chlorophenol	990.00	U
541-73-1	1,3-Dichlorobenzene	990.00	U
106-46-7	1,4-Dichlorobenzene	990.00	U
100-51-6	Benzyl Alcohol	990.00	U
95-50-1	1,2-Dichlorobenzene	990.00	U
95-48-7	2-Methylphenol	990.00	U
106-44-5	4-Methylphenol	990.00	U
621-64-7	N-Nitroso-di-n-propylamine	990.00	U
67-72-1	Hexachloroethane	990.00	U
98-95-3	Nitrobenzene	990.00	U
78-59-1	Isophorone	990.00	U
88-75-5	2-Nitrophenol	990.00	U
105-67-9	2,4-Dimethylphenol	990.00	U
65-85-0	Benzoic Acid	4800.00	U
111-91-1	bis(2-Chloroethoxy)methane	990.00	U
120-83-2	2,4-Dichlorophenol	990.00	U
120-82-1	1,2,4-Trichlorobenzene	990.00	U
91-20-3	Naphthalene	990.00	U
106-47-8	4-Chloroaniline	990.00	U
87-68-3	Hexachlorobutadiene	990.00	U
59-50-7	4-Chloro-3-methylphenol	990.00	U
91-57-6	2-Methylnaphthalene	990.00	U
77-47-4	Hexachlorocyclopentadiene	990.00	U
88-06-2	2,4,6-Trichlorophenol	990.00	U
95-95-4	2,4,5-Trichlorophenol	990.00	U
91-58-7	2-Chloronaphthalene	990.00	U
88-74-4	2-Nitroaniline	4800.00	U
131-11-3	Dimethylphthalate	990.00	U
208-96-8	Acenaphthylene	990.00	U
606-20-2	2,6-Dinitrotoluene	990.00	U

00595

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5071

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 6220801008.D

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 22 dec. Date Extracted: 06/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 06/22/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 3.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	4800.00	U
83-32-9	Acenaphthene	990.00	U
51-28-5	2,4-Dinitrophenol	4800.00	U
100-02-7	4-Nitrophenol	4800.00	U
132-64-9	Dibenzofuran	990.00	U
121-14-2	2,4-Dinitrotoluene	990.00	U
84-66-2	Diethylphthalate	990.00	U
7005-72-3	4-Chlorophenyl-phenylether	990.00	U
86-73-7	Fluorene	990.00	U
100-01-6	4-Nitroaniline	4800.00	U
534-52-1	4,6-Dinitro-2-methylphenol	4800.00	U
86-30-6	N-Nitrosodiphenylamine [1]	990.00	U
101-55-3	4-Bromophenyl-phenylether	990.00	U
118-74-1	Hexachlorobenzene	990.00	U
87-86-5	Pentachlorophenol	4800.00	U
85-01-8	Phenanthrene	990.00	4100
120-12-7	Anthracene	990.00	U
84-74-2	Di-n-butylphthalate	990.00	U
206-44-0	Fluoranthene	990.00	4000
129-00-0	Pyrene	990.00	4000
85-68-7	Butylbenzylphthalate	990.00	U
91-94-1	3,3'-Dichlorobenzidine	1980.00	U
56-55-3	Benzo(a)anthracene	990.00	2200
218-01-9	Chrysene	990.00	2100
117-81-7	bis(2-Ethylhexyl)phthalate	990.00	8500
117-84-0	Di-n-octylphthalate	990.00	U
205-99-2	Benzo(b)fluoranthene	990.00	2500
207-08-9	Benzo(k)fluoranthene	990.00	2400
50-32-8	Benzo(a)pyrene	990.00	2200
193-39-5	Indeno(1,2,3-cd)pyrene	990.00	U
53-70-3	Dibenz(a,h)anthracene	990.00	U
191-24-2	Benzo(g,h,i)perylene	990.00	U

[1] - Cannot be separated from Diphenylamine

00596

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET B-13-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL 5071

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 6220801008.d

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 22 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 6/22/91

GC Cleanup: (Y/N) n pH Dilution Factor: 3.0

Number TICs Found: 13 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	86-74-8	9H-Carbazole	17.88	510	
2.	203-64-5	4H-Cyclopenta [def] phenanthrene	18.65	1100	
3.	----------	[2,2] (9,9) Anthraceneophane	18.92	500	
4.	21964-49-8	1,13-Tetradecadiene	19.07	700	
5.	2381-21-7	Pyrene,1-methyl	20.98	600	
6.	2381-21-7	Pyrene,1-methyl	21.31	5200	
7.	2381-21-7	Pyrene,1-methyl	21.49	2500	
8.	2381-21-7	Pyrene,1-methyl	21.64	3400	
9.	2381-21-7	Pyrene,1-methyl	21.95	3500	
10.	84-15-1	1,1:2',1"-Terphenyl	22.69	2100	
11.	117-81-7	1,2-Benzenedicarboxylic acid	24.44	23000	
12.	----------	Unknown	24.62	13000	
13.	----------	Unknown	29.31	3400	
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00597

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET B-13-2

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5072

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 6220301003.d

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 14 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 6/22/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	990.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET B-13-2

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5072

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 6220301003.d

level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 14 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 6/22/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5073

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7050301003.D

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 13 dec. Date Extracted: 06/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/05/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	1600.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

00625

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5073

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7050301003.D

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 13 dec. Date Extracted: 06/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/05/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	420
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	650
129-00-0	Pyrene	330.00	460
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	330
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

00626

1F

EPA Sample No

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

B-14-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL 5073

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7050301003.d

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 13 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/5/91

GC Cleanup: (Y/N) n pH Dilution Factor: 1.0

Number TICs Found: 15 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	832-71-3	Phenanthrene,3-methyl-	18.09	140	
2.	————	Unknown	18.34	270	
3.	21964-49-8	1,13-Tetradecadiene	18.75	580	
4.	————	Unknown	18.92	180	
5.	3674-66-6	Phenanthrene,2,5-dimethyl-	19.16	160	
6.	544-76-3	Hexadecane	19.71	140	
7.	243-17-4	11H-Benzo [B] fluorene	20.57	250	
8.	243-17-4	11H-Benzo [B] fluorene	20.86	270	
9.	2381-21-7	Pyrene,1-methyl-	21.03	170	
10.	————	Unknown	21.16	150	
11.	————	Unknown	21.48	270	
12.	82-05-3	7H-Benz [de] anthracen -7- one	22.49	120	
13.	217-59-4	Triphenylene	23.84	340	
14.	301-02-0	9-Octadecenamide,(z)-	28.39	2200	
15.	198-55-0	Perylene	32.42	220	
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SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

B-14-2

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5074

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 6240801007.D

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 13 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	990.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5074

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 6240801007.D

level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 13 dec. Date Extracted: 6/20/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	520
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

EPA Sample No

B-15-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc.

Contract:

Lab Code: FIL Case No. SAS No.: SDG No.:

Matrix: (soil/water) soil

Lab Sample ID: 4995

Sample wt/vol: 30.1 (g/mL) g

Lab File ID: 6241101010.D

Level: (low/med) low

Date Received: 06/17/91

% Moisture: not dec. 2 dec.

Date Extracted: 06/18/91

Extraction: (SepF/Cont/Sonc) Sonc

Date Analyzed: 06/25/91

GPC Cleanup: (Y/N) N pH

Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	1650.00	U
111-44-4	bis(2-Chloroethyl)ether	1650.00	U
95-57-8	2-Chlorophenol	1650.00	U
541-73-1	1,3-Dichlorobenzene	1650.00	U
106-46-7	1,4-Dichlorobenzene	1650.00	U
100-51-6	Benzyl Alcohol	1650.00	U
95-50-1	1,2-Dichlorobenzene	1650.00	U
95-48-7	2-Methylphenol	1650.00	U
106-44-5	4-Methylphenol	1650.00	U
621-64-7	N-Nitroso-di-n-propylamine	1650.00	U
67-72-1	Hexachloroethane	1650.00	U
98-95-3	Nitrobenzene	1650.00	U
78-59-1	Isophorone	1650.00	U
88-75-5	2-Nitrophenol	1650.00	U
105-67-9	2,4-Dimethylphenol	1650.00	U
65-85-0	Benzoic Acid	8000.00	U
111-91-1	bis(2-Chloroethoxy)methane	1650.00	U
120-83-2	2,4-Dichlorophenol	1650.00	U
120-82-1	1,2,4-Trichlorobenzene	1650.00	U
91-20-3	Naphthalene	1650.00	U
106-47-8	4-Chloroaniline	1650.00	U
87-68-3	Hexachlorobutadiene	1650.00	U
59-50-7	4-Chloro-3-methylphenol	1650.00	U
91-57-6	2-Methylnaphthalene	1650.00	U
77-47-4	Hexachlorocyclopentadiene	1650.00	U
88-06-2	2,4,6-Trichlorophenol	1650.00	U
95-95-4	2,4,5-Trichlorophenol	1650.00	U
91-58-7	2-Chloronaphthalene	1650.00	U
88-74-4	2-Nitroaniline	8000.00	U
131-11-3	Dimethylphthalate	1650.00	U
208-96-8	Acenaphthylene	1650.00	U
606-20-2	2,6-Dinitrotoluene	1650.00	U

00645

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 4995

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 6241101010.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 2 dec. Date Extracted: 06/18/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 06/25/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	8000.00	U
83-32-9	Acenaphthene	1650.00	U
51-28-5	2,4-Dinitrophenol	8000.00	U
100-02-7	4-Nitrophenol	8000.00	U
132-64-9	Dibenzofuran	1650.00	U
121-14-2	2,4-Dinitrotoluene	1650.00	U
84-66-2	Diethylphthalate	1650.00	U
7005-72-3	4-Chlorophenyl-phenylether	1650.00	U
86-73-7	Fluorene	1650.00	U
100-01-6	4-Nitroaniline	8000.00	U
534-52-1	4,6-Dinitro-2-methylphenol	8000.00	U
86-30-6	N-Nitrosodiphenylamine [1]	1650.00	U
101-55-3	4-Bromophenyl-phenylether	1650.00	U
118-74-1	Hexachlorobenzene	1650.00	U
87-86-5	Pentachlorophenol	1650.00	U
85-01-8	Phenanthrene	8000.00	2200
120-12-7	Anthracene	1650.00	U
84-74-2	Di-n-butylphthalate	1650.00	U
206-44-0	Fluoranthene	1650.00	2200
129-00-0	Pyrene	1650.00	4100
85-68-7	Butylbenzylphthalate	1650.00	U
91-94-1	3,3'-Dichlorobenzidine	1650.00	U
56-55-3	Benzo(a)anthracene	3300.00	U
218-01-9	Chrysene	1650.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	1650.00	U
117-84-0	Di-n-octylphthalate	1650.00	U
205-99-2	Benzo(b)fluoranthene	1650.00	U
207-08-9	Benzo(k)fluoranthene	1650.00	U
50-32-8	Benzo(a)pyrene	1650.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	1650.00	U
53-70-3	Dibenz(a,h)anthracene	1650.00	U
191-24-2	Benzo(g,h,i)perylene	1650.00	U

[1] - Cannot be separated from Diphenylamine

00646

EPA Sample No

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

B-15-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL4995

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 6241101010.D

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 2 dec. Date Extracted: 6/18/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 6/25/91

GC Cleanup: (Y/N) N pH Dilution Factor: 5.0

Number TICs Found: 14 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	---	unknown	13.76	770	
2.	575-43-9	Naphthalene, 1,6-dimethyl	14.05	720	
3.	112-95-8	Eicosane	17.00	580	
4.	---	unknown	18.45	1400	
5.	21964-48-7	1,12-Tridecadiene	18.91	2300	
6.	3674-69-9	Phenanthrene, 4,5-dimethyl	19.10	800	
7.	1576-69-8	Phenanthrene, 2,5-dimethyl	19.16	730	
8.	3674-66-6	Phenanthrene, 2,5-dimethyl	19.33	1500	
9.	---	unknown	19.55	680	
10.	638-36-8	Hexadecane, 2,4,6,10,14-tetramet	19.91	560	
11.	---	unknown	20.08	590	
12.	---	unknown	20.35	690	
13.	2381-21-7	Pyrene, 1-methyl	20.79	750	
14.	2381-21-7	Pyrene, 1-methyl	21.08	1600	
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FORM I SV-TIC

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 4998

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7050901009.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 25 dec. Date Extracted: 06/18/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/05/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 5.00/20.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	1600.00	U
111-44-4	bis(2-Chloroethyl)ether	1600.00	U
95-57-8	2-Chlorophenol	1600.00	U
541-73-1	1,3-Dichlorobenzene	1600.00	U
106-46-7	1,4-Dichlorobenzene	1600.00	U
100-51-6	Benzyl Alcohol	1600.00	U
95-50-1	1,2-Dichlorobenzene	1600.00	U
95-48-7	2-Methylphenol	1600.00	U
106-44-5	4-Methylphenol	1600.00	U
621-64-7	N-Nitroso-di-n-propylamine	1600.00	U
67-72-1	Hexachloroethane	1600.00	U
98-95-3	Nitrobenzene	1600.00	U
78-59-1	Isophorone	1600.00	U
88-75-5	2-Nitrophenol	1600.00	U
105-67-9	2,4-Dimethylphenol	1600.00	U
65-85-0	Benzoic Acid	8000.00	U
111-91-1	bis(2-Chloroethoxy)methane	1600.00	U
120-83-2	2,4-Dichlorophenol	1600.00	U
120-82-1	1,2,4-Trichlorobenzene	1600.00	U
91-20-3	Naphthalene	1600.00	4600
106-47-8	4-Chloroaniline	1600.00	U
87-68-3	Hexachlorobutadiene	1600.00	U
59-50-7	4-Chloro-3-methylphenol	1600.00	U
91-57-6	2-Methylnaphthalene	1600.00	2100
77-47-4	Hexachlorocyclopentadiene	1600.00	U
88-06-2	2,4,6-Trichlorophenol	1600.00	U
95-95-4	2,4,5-Trichlorophenol	1600.00	U
91-58-7	2-Chloronaphthalene	1600.00	U
88-74-4	2-Nitroaniline	8000.00	U
131-11-3	Dimethylphthalate	1600.00	U
208-96-8	Acenaphthylene	1600.00	U
606-20-2	2,6-Dinitrotoluene	1600.00	U

00663

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 4998

Sample wt/vol: 30.1 (g/mL) Lab File ID: 7050901009.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 25 dec. Date Extracted: 06/18/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/05/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 5.00/20.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	8000.00	U
83-32-9	Acenaphthene	1600.00	4600
51-28-5	2,4-Dinitrophenol	8000.00	U
100-02-7	4-Nitrophenol	8000.00	U
132-64-9	Dibenzofuran	1600.00	4500
121-14-2	2,4-Dinitrotoluene	1600.00	U
84-66-2	Diethylphthalate	1600.00	U
7005-72-3	4-Chlorophenyl-phenylether	1600.00	U
86-73-7	Fluorene	1600.00	6600
100-01-6	4-Nitroanaline	8000.00	U
534-52-1	4,6-Dinitro-2-methylphenol	8000.00	U
86-30-6	N-Nitrosodiphenylamine [1]	1600.00	U
101-55-3	4-Bromophenyl-phenylether	1600.00	U
118-74-1	Hexachlorobenzene	1600.00	U
87-86-5	Pentachlorophenol	8000.00	U
85-01-8	Phenanthrene	1600.00	32000
120-12-7	Anthracene	1600.00	16000
84-74-2	Di-n-butylphthalate	1600.00	U
206-44-0	Fluoranthene	1600.00	33000
129-00-0	Pyrene	1600.00	34000
85-68-7	Butylbenzylphthalate	1600.00	U
91-94-1	3,3'-Dichlorobenzidine	3300.00	U
56-55-3	Benzo(a)anthracene	1600.00	20000
218-01-9	Chrysene	1600.00	17000
117-81-7	bis(2-Ethylhexyl)phthalate	1600.00	U
117-84-0	Di-n-octylphthalate	1600.00	U
205-99-2	Benzo(b)fluoranthene	1600.00	3300
207-08-9	Benzo(k)fluoranthene	1600.00	4300
50-32-8	Benzo(a)pyrene	1600.00	3500
193-39-5	Indeno(1,2,3-cd)pyrene	1600.00	U
53-70-3	Dibenz(a,h)anthracene	1600.00	U
191-24-2	Benzo(g,h,i)perylene	1600.00	U

[1] - Cannot be separated from Diphenylamine

00664

EPA Sample No

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

B-16-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 4998

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7050901009.D

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 25 dec. Date Extracted: 6/18/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/5/91

GC Cleanup: (Y/N) n pH Dilution Factor: 5.00/20.00

Number TICs Found: 14 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	86-74-8	9-H-Carbazole	17.75	2700	
2.	613-12-7	Anthracene,2-methyl	18.20	2400	
3.	613-12-7	Anthracene,2-methyl	18.40	1400	
4.	---	unknown	18.52	4400	
5.	612-94-2	Naphthalene, 2-phenyl	18.78	1700	
6.	3674-66-6	Phenanthrene, 2,5-dimethyl	19.35	1500	
7.	---	unknown	19.47	1400	
8.	---	unknown	20.10	2200	
9.	2381-21-7	Pyrene,1-methyl	20.81	2400	
10.	2381-21-7	Pyrene,1-methyl	21.12	9000	
11.	2381-21-7	Pyrene,1-methyl	21.30	6400	
12.	---	unknown	21.43	5400	
13.	3353-12-6	Pyrene,4-methyl	21.73	3200	
14.	239-35-0	Benzo(b)naphtho(2,1-d)thiophen	23.20	3200	
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Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 4999

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7051001010.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 14 dec. Date Extracted: 06/18/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/06/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 5.00/20.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	1600.00	U
111-44-4	bis(2-Chloroethyl)ether	1600.00	U
95-57-8	2-Chlorophenol	1600.00	U
541-73-1	1,3-Dichlorobenzene	1600.00	U
106-46-7	1,4-Dichlorobenzene	1600.00	U
100-51-6	Benzyl Alcohol	1600.00	U
95-50-1	1,2-Dichlorobenzene	1600.00	U
95-48-7	2-Methylphenol	1600.00	U
106-44-5	4-Methylphenol	1600.00	U
621-64-7	N-Nitroso-di-n-propylamine	1600.00	U
67-72-1	Hexachloroethane	1600.00	U
98-95-3	Nitrobenzene	1600.00	U
78-59-1	Isophorone	1600.00	U
88-75-5	2-Nitrophenol	1600.00	U
105-67-9	2,4-Dimethylphenol	1600.00	U
65-85-0	Benzoic Acid	8000.00	U
111-91-1	bis(2-Chloroethoxy)methane	1600.00	U
120-83-2	2,4-Dichlorophenol	1600.00	U
120-82-1	1,2,4-Trichlorobenzene	1600.00	U
91-20-3	Naphthalene	1600.00	U
106-47-8	4-Chloroaniline	1600.00	U
87-68-3	Hexachlorobutadiene	1600.00	U
59-50-7	4-Chloro-3-methylphenol	1600.00	U
91-57-6	2-Methylnaphthalene	1600.00	U
77-47-4	Hexachlorocyclopentadiene	1600.00	U
88-06-2	2,4,6-Trichlorophenol	1600.00	U
95-95-4	2,4,5-Trichlorophenol	1600.00	U
91-58-7	2-Chloronaphthalene	1600.00	U
88-74-4	2-Nitroaniline	8000.00	U
131-11-3	Dimethylphthalate	1600.00	U
208-96-8	Acenaphthylene	1600.00	U
606-20-2	2,6-Dinitrotoluene	1600.00	U

00704

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 4999

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7051001010.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 14 dec. Date Extracted: 06/18/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/06/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 5.00/20.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	8000.00	U
83-32-9	Acenaphthene	1600.00	U
51-28-5	2,4-Dinitrophenol	8000.00	U
100-02-7	4-Nitrophenol	8000.00	U
132-64-9	Dibenzofuran	1600.00	U
121-14-2	2,4-Dinitrotoluene	1600.00	U
84-66-2	Diethylphthalate	1600.00	U
7005-72-3	4-Chlorophenyl-phenylether	1600.00	U
86-73-7	Fluorene	1600.00	1600 JS
100-01-6	4-Nitroaniline	8000.00	U
534-52-1	4,6-Dinitro-2-methylphenol	8000.00	U
86-30-6	N-Nitrosodiphenylamine [1]	1600.00	U
101-55-3	4-Bromophenyl-phenylether	1600.00	U
118-74-1	Hexachlorobenzene	1600.00	U
87-86-5	Pentachlorophenol	8000.00	U
85-01-8	Phenanthrene	1600.00	14000 JS
120-12-7	Anthracene	1600.00	4200 JS
84-74-2	Di-n-butylphthalate	1600.00	U
206-44-0	Fluoranthene	1600.00	16000 JS
129-00-0	Pyrene	1600.00	15000 JS
85-68-7	Butylbenzylphthalate	1600.00	U
91-94-1	3,3'-Dichlorobenzidine	3300.00	U
56-55-3	Benzo(a)anthracene	1600.00	7800 JS
218-01-9	Chrysene	1600.00	7500 JS
117-81-7	bis(2-Ethylhexyl)phthalate	1600.00	U
117-84-0	Di-n-octylphthalate	1600.00	U
205-99-2	Benzo(b)fluoranthene	1600.00	2500 JS
207-08-9	Benzo(k)fluoranthene	1600.00	2200 JS
50-32-8	Benzo(a)pyrene	1600.00	1800 JS
193-39-5	Indeno(1,2,3-cd)pyrene	1600.00	U
53-70-3	Dibenz(a,h)anthracene	1600.00	U
191-24-2	Benzo(g,h,i)perylene	1600.00	U

00705

[1] - Cannot be separated from Diphenylamine

EPA Sample No

B-17-1

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: Fil 4999

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 6241001009.d

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 14 dec. Date Extracted: 6/18/91

Extraction: (SepF/Cont/Sonc) Sonc. Date Analyzed: 7/06/91

GC Cleanup: (Y/N) N pH Dilution Factor: 5.00/20.00

Number TICs Found: 15 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	86-74-8	9H-Carbazole	17.73	1300	
2.	613-12-7	Anthracene 2-methyl	18.25	950	
3.	----------	Unknown	18.50	2100	
4.	21964-49-8	1,13-Tetradecadiene	18.91	970	
5.	3674-66-6	Phenanthrene	19.33	780	
6.	----------	Unknown	19.44	960	
7.	----------	1-Azapyrene	20.63	760	
8.	----------	Unknown	20.78	1400	
9.	238-84-6	11H-Benzo [a] fluorene	21.09	6300	
10.	2381-21-7	Pyrene,1-methyl	21.26	4200	
11.	2381-21-7	Pyrene,1-methyl	21.39	4100	
12.	2381-21-7	Pyrene,1-methyl	21.77	2300	
13.	82-05-3	7H-Benz [de] Anthracen -7- one	22.76	3300	
14.	----------	Benzo (b) naptho (2,3-d) thiophen	23.17	2400	
15.	----------	Unknown	24.25	7900	
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00706

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5005

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7050401004.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 13 dec. Date Extracted: 06/18/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/05/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	1600.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

00737

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5005

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7050401004.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 13 dec. Date Extracted: 06/18/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/05/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	860
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	1600
129-00-0	Pyrene	330.00	890
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	500
218-01-9	Chrysene	330.00	550
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

00738

1F

EPA Sample No

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

B-18-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL 5005

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7050401004.d

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 13 dec. Date Extracted: 6/18/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/5/91

GC Cleanup: (Y/N) n pH Dilution Factor: 1.0

Number TICs Found: 15 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	————	Unknown	15.80	1500	
2.	————	Unknown	18.35	290	
3.	21964-49-8	1,13-Tetradecadiene	18.77	1600	
4.	18435-45-5	1-Nonadecane	18.90	350	
5.	————	Unknown	19.21	290	
6.	206-44-0	Fluoranthene	19.52	910	
7.	————	Unknown	19.87	300	
8.	1210-12-4	9-Anthracenecarbonitrile	20.47	290	
9.	2381-21-7	Pyrene,1-methyl	20.57	370	
10.	2381-21-7	Pyrene,1-methyl	20.87	2000	
11.	243-17-4	11H-Benzo [b] Fluorene	21.03	1400	
12.	2381-21-7	Pyrene,1-methyl	21.18	1600	
13.	————	Unknown	21.51	2400	
14.	82-05-3	7H-Benz [de] Antracen-7-one	22.49	1500	
15.	————	Unknown	23.95	4500	
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5001

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7050201002.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 23 dec. Date Extracted: 06/18/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/05/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	1600.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroanline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

00759

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) Soil Lab Sample ID: 5001

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7050201002.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 23 dec. Date Extracted: 06/18/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 07/05/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	720
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	820
129-00-0	Pyrene	330.00	600
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	390
218-01-9	Chrysene	330.00	360
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	410
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	340
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

00760

1F EPA Sample No

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET B-19-1

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: FIL 5001

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7050201002.d

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 23 dec. Date Extracted: 6/18/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/5/91

GC Cleanup: (Y/N) n pH Dilution Factor: 1.0

Number TICs Found: 15 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	----------	Unknown	8.14	910	
2.	79-92-5	Camphene	8.39	1000	
3.	124-18-5	Decane	8.89	1200	
4.	527-84-4	Benzene,1-methyl-2- (1-methyl	9.34	990	
5.	----------	Unknown	9.65	1200	
6.	----------	Unknown	10.05	1400	
7.	1120-21-4	Undecane	10.13	2100	
8.	112-40-3	Dodecane	11.26	2000	
9.	21964-49-8	Tetradecadiene	18.78	1800	
10.	----------	Unknown	19.16	1500	
11.	593-45-3	Octadecane	19.72	1100	
12.	629-62-9	Pentadecane	20.58	1900	
13.	243-17-4	11H-Benzo [b] fluorene	20.87	1100	
14.	123-79-5	Hexanedioic Acid, dioctyl este	21.73	1100	
15.	630-02-4	Otacosane	28.33	1000	
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

00761

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: 5003

Sample wt/vol: 30.2 (g/mL) Lab File ID: 7170801008.D

Level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 12 dec. Date Extracted: 06/18/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 07/17/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	3300.00	U
111-44-4	bis(2-Chloroethyl)ether	3300.00	U
95-57-8	2-Chlorophenol	3300.00	U
541-73-1	1,3-Dichlorobenzene	3300.00	U
106-46-7	1,4-Dichlorobenzene	3300.00	U
100-51-6	Benzyl Alcohol	3300.00	U
95-50-1	1,2-Dichlorobenzene	3300.00	U
95-48-7	2-Methylphenol	3300.00	U
106-44-5	4-Methylphenol	3300.00	U
621-64-7	N-Nitroso-di-n-propylamine	3300.00	U
67-72-1	Hexachloroethane	3300.00	U
98-95-3	Nitrobenzene	3300.00	U
78-59-1	Isophorone	3300.00	U
88-75-5	2-Nitrophenol	3300.00	U
105-67-9	2,4-Dimethylphenol	3300.00	U
65-85-0	Benzoic Acid	16000.00	U
111-91-1	bis(2-Chloroethoxy)methane	3300.00	U
120-83-2	2,4-Dichlorophenol	3300.00	U
120-82-1	1,2,4-Trichlorobenzene	3300.00	U
91-20-3	Naphthalene	3300.00	U
106-47-8	4-Chloroaniline	3300.00	U
87-68-3	Hexachlorobutadiene	3300.00	U
59-50-7	4-Chloro-3-methylphenol	3300.00	U
91-57-6	2-Methylnaphthalene	3300.00	U
77-47-4	Hexachlorocyclopentadiene	3300.00	U
88-06-2	2,4,6-Trichlorophenol	3300.00	U
95-95-4	2,4,5-Trichlorophenol	3300.00	U
91-58-7	2-Chloronaphthalene	3300.00	U
88-74-4	2-Nitroaniline	16000.00	U
131-11-3	Dimethylphthalate	3300.00	U
208-96-8	Acenaphthylene	3300.00	U
606-20-2	2,6-Dinitrotoluene	3300.00	U

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5003

Sample wt/vol: 30.2 (g/mL)g Lab File ID: 7170801008.D

level: (low/med) low Date Received: 06/17/91

% Moisture: not dec. 12 dec. Date Extracted:

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 07/17/91

GC Cleanup: (Y/N) N pH Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	16000.00	U
83-32-9	Acenaphthene	3300.00	U
51-28-5	2,4-Dinitrophenol	16000.00	U
100-02-7	4-Nitrophenol	16000.00	U
132-64-9	Dibenzofuran	3300.00	U
121-14-2	2,4-Dinitrotoluene	3300.00	U
84-66-2	Diethylphthalate	3300.00	U
7005-72-3	4-Chlorophenyl-phenylether	3300.00	U
86-73-7	Fluorene	3300.00	U
100-01-6	4-Nitroaniline	16000.00	U
534-52-1	4,6-Dinitro-2-methylphenol	16000.00	U
86-30-6	N-Nitrosodiphenylamine [1]	3300.00	U
101-55-3	4-Bromophenyl-phenylether	3300.00	U
118-74-1	Hexachlorobenzene	3300.00	U
87-86-5	Pentachlorophenol	16000.00	U
85-01-8	Phenanthrene	3300.00	U
120-12-7	Anthracene	3300.00	U
84-74-2	Di-n-butylphthalate	3300.00	U
206-44-0	Fluoranthene	3300.00	U
129-00-0	Pyrene	3300.00	U
85-68-7	Butylbenzylphthalate	3300.00	U
91-94-1	3,3'-Dichlorobenzidine	6600.00	U
56-55-3	Benzo(a)anthracene	3300.00	U
218-01-9	Chrysene	3300.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	3300.00	U
117-84-0	Di-n-octylphthalate	3300.00	U
205-99-2	Benzo(b)fluoranthene	3300.00	U
207-08-9	Benzo(k)fluoranthene	3300.00	U
50-32-8	Benzo(a)pyrene	3300.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	3300.00	U
53-70-3	Dibenz(a,h)anthracene	3300.00	U
191-24-2	Benzo(g,h,i)perylene	3300.00	U

[1] - Cannot be separated from Diphenylamine

00786

EPA Sample No

B-20-1

SEMILVOLATILE ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5003

Sample wt/vol: 30.2 (g/mL)g Lab File ID: 7170801008.D

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 12 dec. Date Extracted:

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/17/91

GC Cleanup: (Y/N) n pH Dilution Factor: 10.00

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	21964-48-7	1,12-tridecadiene	18.88	2300	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

00787

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5004

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 6220601006.d

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 15 dec. Date Extracted: 6/18/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 6/22/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
108-95-2	Phenol	330.00	U
111-44-4	bis(2-Chloroethyl)ether	330.00	U
95-57-8	2-Chlorophenol	330.00	U
541-73-1	1,3-Dichlorobenzene	330.00	U
106-46-7	1,4-Dichlorobenzene	330.00	U
100-51-6	Benzyl Alcohol	330.00	U
95-50-1	1,2-Dichlorobenzene	330.00	U
95-48-7	2-Methylphenol	330.00	U
106-44-5	4-Methylphenol	330.00	U
621-64-7	N-Nitroso-di-n-propylamine	330.00	U
67-72-1	Hexachloroethane	330.00	U
98-95-3	Nitrobenzene	330.00	U
78-59-1	Isophorone	330.00	U
88-75-5	2-Nitrophenol	330.00	U
105-67-9	2,4-Dimethylphenol	330.00	U
65-85-0	Benzoic Acid	990.00	U
111-91-1	bis(2-Chloroethoxy)methane	330.00	U
120-83-2	2,4-Dichlorophenol	330.00	U
120-82-1	1,2,4-Trichlorobenzene	330.00	U
91-20-3	Naphthalene	330.00	U
106-47-8	4-Chloroaniline	330.00	U
87-68-3	Hexachlorobutadiene	330.00	U
59-50-7	4-Chloro-3-methylphenol	330.00	U
91-57-6	2-Methylnaphthalene	330.00	U
77-47-4	Hexachlorocyclopentadiene	330.00	U
88-06-2	2,4,6-Trichlorophenol	330.00	U
95-95-4	2,4,5-Trichlorophenol	330.00	U
91-58-7	2-Chloronaphthalene	330.00	U
88-74-4	2-Nitroaniline	1600.00	U
131-11-3	Dimethylphthalate	330.00	U
208-96-8	Acenaphthylene	330.00	U
606-20-2	2,6-Dinitrotoluene	330.00	U

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5004

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 622061006.d

level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 15 dec. Date Extracted: 6/18/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 6/22/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
99-09-2	3-Nitroaniline	1600.00	U
83-32-9	Acenaphthene	330.00	U
51-28-5	2,4-Dinitrophenol	1600.00	U
100-02-7	4-Nitrophenol	1600.00	U
132-64-9	Dibenzofuran	330.00	U
121-14-2	2,4-Dinitrotoluene	330.00	U
84-66-2	Diethylphthalate	330.00	U
7005-72-3	4-Chlorophenyl-phenylether	330.00	U
86-73-7	Fluorene	330.00	U
100-01-6	4-Nitroaniline	1600.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.00	U
86-30-6	N-Nitrosodiphenylamine [1]	330.00	U
101-55-3	4-Bromophenyl-phenylether	330.00	U
118-74-1	Hexachlorobenzene	330.00	U
87-86-5	Pentachlorophenol	1600.00	U
85-01-8	Phenanthrene	330.00	U
120-12-7	Anthracene	330.00	U
84-74-2	Di-n-butylphthalate	330.00	U
206-44-0	Fluoranthene	330.00	U
129-00-0	Pyrene	330.00	U
85-68-7	Butylbenzylphthalate	330.00	U
91-94-1	3,3'-Dichlorobenzidine	660.00	U
56-55-3	Benzo(a)anthracene	330.00	U
218-01-9	Chrysene	330.00	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.00	U
117-84-0	Di-n-octylphthalate	330.00	U
205-99-2	Benzo(b)fluoranthene	330.00	U
207-08-9	Benzo(k)fluoranthene	330.00	U
50-32-8	Benzo(a)pyrene	330.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.00	U
53-70-3	Dibenz(a,h)anthracene	330.00	U
191-24-2	Benzo(g,h,i)perylene	330.00	U

[1] - Cannot be separated from Diphenylamine

Exhibit 8

Chain of Custody Documentation

ADVANCED
ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NY 14304 • (716) 283-3120

CHAIN OF CUSTODY RECORD

PROJECT NAME: WASTE RESOURCE ASSOCIATES

SAMPLER'S SIGNATURE: Joseph Paul McEnaney

JOB CODE: FIL

IDENTIFICATION OF BLIND FIELD DUPLICATE SITE: _____

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION: UNPRESERVED	HNO_3	H_2SO_4	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
6-17-91	10:00 AM	B-15-1		✓	SOIL	X								
6-17-91	10:00 AM	B-15-2	✓		SOIL	X								
6-17-91	11:00 AM	B-16-2	✓		SOIL	X								
6-17-91	11:00 AM	B-16-1		✓	SOIL	X								
6-17-91	11:30 AM	B-17-1		✓	SOIL	X								
6-17-91	11:30 AM	B-17-2	✓		SOIL	X								
6-17-91	11:00 AM	B-16-1		✓	SOIL	GIVEN TO NYS DEC REP								HOLD FOR NYS DEC
6-17-91	1:00 PM	B-19-1		✓	SOIL	X								
6-17-91	1:00 PM	B-19-2	✓		SOIL	X								
6-17-91	2:00 PM	B-20-1		✓	SOIL	X								
6-17-91	2:00 PM	B-20-2	✓		SOIL	X								
6-17-91	3:00 PM	B-18-1		✓	SOIL	X								

TOTAL NUMBER OF CONTAINERS: 11

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

	DATE	TIME	RECEIVED BY:
1. RELINQUISHED BY: Joseph Paul McEnaney	6-17-91	4:20	Marcia Lewis
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

CHAIN OF CUSTODY RECORD

ADVANCED
ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NY 14304 • (716) 283-3120

PROJECT NAME: WASTE RESOURCE ASSOCIATES

SAMPLER'S SIGNATURE: Joseph Paul McGowan

JOB CODE: F1L

IDENTIFICATION OF BLIND FIELD DUPLICATE SITE: _____

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION: UNPRESERVED	HNO₃	H₂SO₄	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
6-17-91	3:00	B-18-2	✓		SOIL	X								
6-17-91	3:30	B-11-1		✓	SOIL	X								
6-17-91	3:30	B-11-2	✓		SOIL	X								

TOTAL NUMBER OF CONTAINERS 3

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

	DATE	TIME	RECEIVED BY:
1. RELINQUISHED BY: Joseph Paul McGowan	6-17-91	4:20	Marcia Seeds Seay
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

CHAIN OF CUSTODY RECORD

ADVANCED
ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NY 14304 • (716) 283-3120

PROJECT NAME: WASTE RESOURCE ASSOC. INC.

SAMPLER'S SIGNATURE: Joseph Paul McGowan

JOB CODE: FIL

IDENTIFICATION OF BLIND FIELD DUPLICATE SITE: _____

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION: UNPRESERVED	HNO_3	H_2SO_4	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
6-18-91	1:00 PM	B-9-1		✓	SOIL	✓								
6-18-91	1:00 PM	B-9-2	✓		SOIL	✓								
6-18-91	2:00 PM	B-10-1		✓	SOIL	✓								
6-18-91	2:00 PM	B-10-2	✓		SOIL	✓								
6-18-91	2:30 PM	B-5-1		✓	SOIL	✓								
6-18-91	2:30 PM	B-5-2	✓		SOIL	✓								
6-18-91	3:30 PM	B-4-1		✓	SOIL	✓								
6-18-91	3:30 PM	B-4-2	✓		SOIL	✓								

TOTAL NUMBER OF CONTAINERS: 8

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

	DATE	TIME	RECEIVED BY:
1. RELINQUISHED BY: Joseph Paul McGowan	6-18-91	4:15	Marcia Goodson
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

ADVANCED ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NY 14304 • (716) 283-3120

CHAIN OF CUSTODY RECORD

PROJECT NAME: WASTE RESOURCE ASSOCIATES

JOB CODE: F/C

SAMPLER'S SIGNATURE: _____

IDENTIFICATION OF BLIND FIELD DUPLICATE SITE: _____

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION: UNPRESERVED	HNO3	H2SO4	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
6-18-91	8:30	B-12-1 0'-2'		✓	SOIL	✓								
6-18-91	8:30	B-12-2 2'-6'	✓		SOIL	✓								
6-18-91	9:00	B-13-1		✓	SOIL	✓								
6-18-91	9:00	B-13-2	✓		SOIL	✓								
6-18-91	9:30	B-14-1		✓	SOIL	✓								
6-18-91	9:30	B-14-2	✓		SOIL	✓								
6-18-91	11:00	B-7-1		✓	SOIL	✓								
6-18-91	11:00	B-7-2	✓		SOIL	✓								
6-18-91	11:30	B-8-1		✓	SOIL	✓								
6-18-91	11:30	B-8-2	✓		SOIL	✓								

TOTAL NUMBER OF CONTAINERS: 10

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

	DATE	TIME	RECEIVED BY:
1. RELINQUISHED BY: Joseph Paul McGovern	6-18-91	4:15	Marcia Sewsley
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

5521

CHAIN OF CUSTODY RECORD

ADVANCED
ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NY 14304 • (716) 283-3120

PROJECT NAME: WASTE RESOURCE ASSOCIATES

SAMPLER'S SIGNATURE: Joseph Paul McGovern

5533
JOB CODE: FIL

IDENTIFICATION OF BLIND FIELD DUPLICATE SITE: _____

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION: UNPRESERVED	HNO₃	H₂SO₄	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
6-19-91	8:30	B-2-1		✓	SOIL	✓								
6-19-91	8:30	B-2-2	✓		SOIL	✓								
6-19-91	9:30	B-3-1		✓	SOIL	✓								
6-19-91	9:30	B-3-2	✓		SOIL	✓								
6-19-91	10:00	B-1-1		✓	SOIL	✓								
6-19-91	10:00	B-1-2	✓		SOIL	✓								
6-19-91	~~10:00~~ 11:00	B-6-1		✓	SOIL	✓								
6-19-91	~~10:00~~ 11:00	B-6-2	✓		SOIL	✓								
	JAN:													

TOTAL NUMBER OF CONTAINERS: 8 + 6 Trip Blanks = 14 Total

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

	DATE	TIME	RECEIVED BY:
1. RELINQUISHED BY: Joseph Paul McGovern	6-19-91	11:40	Marcia Sweeney
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

Exhibit 9

Advanced Environmental Services, Inc.

Report Narrative

ADVANCED
ENVIRONMENTAL SERVICES INC.
2186 Liberty Drive
P.O. Box 165
Niagara Falls, NY 14304

NIAGARA FALLS BOULEVARD AND 70TH STREET
NIAGARA FALLS, NY

Report Prepared For

WASTE RESOURCE ASSOCIATES, INC.

JULY 31, 1991

AES REPORT FIL

COMMITMENT
TO
HONESTY - QUALITY - SERVICE

QA/QC Verification

The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherence to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.

Denise R. Tuhovak
Organics Supervisor

Gary L. Amato
Technical Supervisor

Paul T. McMahon
Quality Control Officer

Catherine Mocniak
Customer Service Representative

REPORT NARRATIVE

CLIENT: WASTE RESOURCE ASSOCIATES, INC.
PROJECT: TOPS DELISTING PETITION
NIAGARA FALLS BOULEVARD AND 70TH STREET
NIAGARA FALLS, NEW YORK
AES PROJECT CODE: FIL
CLIENT SAMPLE ID: B-1 THROUGH B-20 (1 AND 2)
AES SAMPLE CODES: 4995-5008, 5069-5086, 5098-5106

Forty soil core samples were collected from the above location, and transported to Advanced Environmental Services by Waste Resource Associates for target compound list (TCL) analysis. The borings were collected over a three day period, from June 17th through June 19th, 1991. Samples were transported in coolers containing "blue ice", and chains of custody were completed and signed on all three days. The chains of custody are located in the report appendix. A trip blank, filled with laboratory deionized water, accompanied sampling personnel during the sampling event. This trip blank was returned to AES on June 19th, and was analyzed with the boring samples.

All of the samples were analyzed for volatiles, cyanide, and mercury. Only the twenty soils from the top layer of the location were analyzed for the rest of the target compound list.

Certain aspects of the analytical work on this project require additional explanation, in order to properly validate the data. These explanations have been divided into the analytical fractions of the project, and are discussed below.

I. ORGANICS

Volatile Analysis:

1.) The tuning compound, bromofluorobenzene, was added to the method blank and one analysis was performed to satisfy both the method blank and BFB requirements.

2.) All but one of the continuing standards contained all compounds except for the ketones. The first continuing standard contained only the SPCC and CCC compounds.

Semi-Volatile Analysis

1.) Each level of the 5-point calibration curve was composed of compounds at two different levels. This was necessary in order to accurately quantify compounds having lower response factors.

2.) Samples B-11-1, B-17-1 and B-16-1 were each run at two sample dilutions in order to quantify all compounds within the range of the standard curve. Both chromatograms have been included and the tabulated results were obtained from the appropriate dilution.

3.) After extraction, sample B-20-1 could not be concentrated below 10 ml, resulting in a DF of 10.

4.) Matrix interferences in samples B-18-1, B-17-1, B-16-1, B-15-1, B-12-1, B-11-1, B-7-1, B-4-1 resulted in poor recovery of the sixth internal standard. Any compounds that were found in these samples that required the sixth internal standard for quantification were calculated using the fifth internal standard instead. Included in the calibration curve data are the average RRF values for these compounds calculated from both internal standards.

Pesticides/PCBs

1.) Samples were run on both the primary and the confirming columns simultaneously.

2.) Signal 1 on all chromatograms signifies analyses performed on the 1701 column, the primary column.

3.) Signal 2 on all chromatograms signifies analyses performed on the SPB5 column, the confirming column.

II. INORGANICS

1.) Seven of the metals analyses were performed by graphite furnace. Method detection limits were analyzed in place of CRDL's for these analyses. The MDL's and their percent recoveries are reported on the CRDL form.

2.) All coefficients of variation for the duplicate analysis of samples analyzed by graphite furnace were less than 20%.

3.) All analytical spikes performed to evaluate interferences in the graphite furnace analysis of the samples are reported on the post-digestion spike forms.

4.) The digestion spike samples for chromium (AES #5071, 5098), lead (5071, 5098), and vanadium (5098) were inadvertently omitted during the initial analysis. The samples were reanalyzed, and the information is included in the report.

5.) The NYSDEC Run Log form was incompatible with our analyses of this project. The NYSDEC Sample Preparation and Analyses Summary forms were completed as a substitute for this form

6.) All mercury was digested and analyzed in triplicate. The original result is reported on the data pages. Data on the duplicate and triplicate samples can be found in the Mercury notebook pages (Method 7471), which are located in the Inorganic raw data attachment to this report.

7.) The calcium data are flagged due to unacceptable precision on both quality control samples (B-2 and B-13). Manganese and zinc data are flagged due to unacceptable spike recoveries on both quality control samples. No other trends existed between the two QC samples, so any other unacceptable precision or spike recovery data are flagged for that specific QC sample only.

Exhibit 10

Data Validation Sheets

SURVEILLANCE AND MONITORING BRANCH REVIEW

Project Name/Site: Tops Niagara Falls Boulevard

Case Number: NA

Type Investigation (Circle One): Remedial Site Other _____

Contract No.: NA

Laboratory: Advanced Environmental Services, Inc.

Sample Identification Numbers:

Aqueous: Trip Link

Soil/Sediment: B-1 through B-20 (2 samples each)

Superfund Account No.: _____

Comments: _____

Title: Attachment 2 - CLP Data Assessment Checklist (GC and GC/MS Analysis) - TOTAL REVIEW

CONTRACTOR AND MONITORING MANAGEMENT BRANCH REVIEW

PART I: Contractor and Preliminary Review

1.0 Data Completeness and Deliverables	YES	NO	N/A
1.1 Are any deliverables missing?	___	[X]	___
1.2 Was SMO CCS checklist included with package?	[___]	___	X

CONTRACTOR ACTION: If incomplete, list any missing data on the Missing Data Tracking Form (Attachment 5), and request missing information from laboratory by phone.

I. COVER LETTER/NARRATIVE

2.0 Cover Letter/Case Narrative			
2.1 Is the Narrative or Cover Letter present?	[___]	___	X
2.2 Are the following items contained in the Narrative or Cover Letter:			
a. Case Number and/or SAS Number	[___]	___	X
b. Contract Number	[___]	___	X

II. QC SUMMARY

3.0 Surrogate Percent Recovery Summaries (Form II)			
3.1 Are the Surrogate Percent Recovery Summaries present for each of the following matrix:			
a. Water - Trip Link Sample	[X]	___	___
b. Soil	[X]	___	___
3.2 Are all the samples listed on the Surrogate Percent Recovery Summaries for each of the following matrix:			
a. Water	[X]	___	___
b. Soil	[X]	___	___

	YES	NO	N/A
3.3 Were outliers marked correctly with an asterisk?	[X]	___	___

CONTRACTOR ACTION: Circle all outliers in red.

3.4 Were two or more BN surrogates outside of contract specifications (or one surrogate less than 10% recovery) for any samples?	X	[___]	___
Method Blanks?	___	[X]	___
If yes, were samples reanalyzed?	[___]	X	___
Were method blanks reanalyzed?	[___]	___	X

MMB ACTION: If Initial analysis and reanalysis both have 2 or more surrogate recoveries less than contract QC requirements (or one surrogate less than 10%) red-line all the detection limits (u's) and flag all positive data (hits) with a J.

If initial analysis and reanalysis both have two or more surrogate recoveries above contract QC requirements do not red-line detection limits (u's) but flag all positive values with a J.

When two or more surrogates for the blank are below contract QC requirements red-line all positive values, but not detection limits, for the associated samples, if sample surrogates are within or above QC limits; but if two or more sample surrogates are below contract QC limits, red-lined all sample data (Detection limits and positive data).

When two or more surrogates for the blank exceed contract QC requirements, validate sample data considering sample surrogate recoveries alone.

Results have been flagged with a "JS". All detection limits have been redlined for B-2-1 and B-3-1

3.5 Were two or more acid surrogates outside of contract specifications (or one surrogate less than 10% recovery) for any samples?	X	[___]	___
Method Blanks?	___	[X]	___
If yes, were samples reanalyzed?	[___]	X	___
Were method blanks reanalyzed?	[___]	X	___

MMB ACTION: If initial analysis and reanalysis both have 2 or more surrogate recoveries less than contract QC requirements (or one surrogate less than 10%) red-line all the detection limits (u's) and flag all positive data (hits) with a J.

If initial analysis and reanalysis both have two or more surrogate recoveries above contract QC requirements do not red-line detection limits (u's) but flag all positive values with a J.

When two or more surrogates for the blank are below contract QC requirements red-line all positive values, but not detection limits, for the associated samples, if sample surrogates are within or above QC limits; but if two or more sample surrogates are below contract QC limits, red-lined all sample data (Detection limits and positive data).

When two or more surrogates for the blank exceed contract QC requirements, validate sample data considering sample surrogate recoveries alone.

	YES	NO	N/A
3.6 Was one or more VOA surrogates outside of contract specifications for any samples?	___	[X]	___
Method Blanks?	___	[X]	___
If yes, were samples reanalyzed?	[___]	X	___
Were method blanks reanalyzed?	[___]	X	___

MMB ACTION: If initial analysis and reanalysis both have one or more surrogate recoveries below contract QC requirements red-line all detection limits (u's) and flag all positive values (hits) with a J.

If initial analysis and reanalysis both have one or more surrogate recoveries above contract QC requirements do not red-line detection limits but flag all positive values with a J.

When one or more surrogate recoveries for the blank are below contract QC requirements red-line all positive values but not the detection limits for the associated samples if sample surrogates are within or above contract QC limits; but if one or more sample surrogate recoveries are below QC limits red-line all data (Detection limits and positive values).

When one or more surrogate recoveries for the blank exceed contract requirement validate data for the associated samples considering sample surrogate recoveries alone.

3.7 Was pesticides/PCB surrogate outside of contract specifications for any samples?	X	[___]	___
Blanks?	___	[X]	___

MMB ACTION: If recoveries are below contract requirement flag all associated positive results with a J and red-line all detection limits. If the recoveries are above contract requirement do not red-line the detection limits but flag all positive value with a J. However professional judgement should be used to determine whether a high bias exists due to coeluting interferences.

All positive values flagged with a "JS".

	YES	NO	N/A
4.0 Matrix Spikes			
4.1 Is the Matrix Spike Duplicate/Recovery Form Present (Form III)?	[X]	___	___
4.2 Were matrix spikes analyzed at the required frequency for: Water?	[___]	___	X
Soil/Sediment?	[X]	___	___
4.2.1 For each set in a case or for every 20 samples of similar matrix is one sample spiked in duplicate?	[X]	___	___

4.3 Form III

4.3.1 How many spikes are outside of recovery limits?

	Water	Soils
VOA's?	: out of 10	0 ; out of 10 0; out of 10
B/N?	: out of 12	0 ; out of 12 1; out of 12
Acids?	: out of 10	2 ; out of 10 0; out of 10
Pesticides?	: out of 12	1 ; out of 12 0; out of 12

4.3.2 How many RPD's for matrix spike and matrix spike duplicates are outside of accepted limits?

	Water	Soils
VOA's?	: out of 5 0; out of 5	0 ; out of 5 0; out of 5
B/N?	: out of 6	1 ; out of 6 0; out of 6
Acids?	: out of 5	0 ; out of 5 2; out of 5
Pesticides?	: out of 6	0 ; out of 6 0; out of 6

MMB ACTION: Use results only in conjunction with other QC criteria in determining the acceptability of reported data.

	YES	NO	N/A
5.0 Blanks			
5.1 Is the Method Blank Summary present? (Form IV)	[X]	___	___
5.2 Frequency of Analysis: for the analysis of VOA HSL compounds, has a reagent/method blank been analyzed for each set of samples or every 20 samples of similar matrix (e.g. - water, low soil, medium soil, etc.), whichever is more frequent?	[X]	___	___
5.3 For VOA's, has an instrument blank been analyzed at least once every 12 hours for each GC/MS system used?	[X]	___	___
5.4 For B/N/A's and Pesticides/PCB's, has a method blank been extracted and analyzed for each set of samples or every 20 samples of similar matrix and similar extraction technique?			
B/N/A's	[X]	___	___
Pesticides/PCB's	[X]	___	___
5.5 Has the method blank for B/N/As and Pesticides/PCBs been run on the same GC/MS or GC system as the samples?	[X]	___	___
6.0 Contamination (Reagent Blank Summary - Form IV)			
6.1. Do any method/instrument/reagent blanks have positive results (HSL and/or TIC) for: VOA's?	X	[___]	___
B/N?	X	[___]	___
Acids?	X	[___]	___
Pesticides?	___	[X]	___
PCBs?	___	[X]	___
6.2 Do any field/trip blanks have positive results (HSL and or TIC) for: VOA's?	X	[___]	___
B/N?	X	[___]	___
Acids?	X	[___]	___
Pesticides?	___	[X]	___
PCBs?	___	[X]	___

	YES	NO	N/A

CONTRACTOR ACTION: Prepare a list of the samples associated with each of the contaminated and/or missing method blanks (attach a separate sheet).

MMB ACTION: For common blank contaminants found (e.g., methylene chloride, acetone, toluene, 2-butanone, and phthalate esters) reject (red-line) all associated positive results present at less than 10 times the blank contaminant levels; for all other contaminants reject (red-line) when all associated positive results are present at less than 5 times the blank contaminant levels. Do not reject any values reported with a "U" (detection limit values). The concentration of contaminants in the VOA blank must be multiplied by the sample dilution factor prior to applying the above rejection criteria.

7.0 GC/MS Tuning and Mass Calibration Forms (Form V)

7.1 Are the GC/MS Tuning and Mass Calibration forms present for the following:

7.1.1 Bromofluorobenzene (BFB)	[X]	___	___
7.1.2 Decafluorotriphenylphosphine (DFTPP)	[X]	___	___

CONTRACTOR ACTION: List any missing GC/MS Tuning and Mass Calibration Form on the Missing Data Tracking Form. (See 1.1)

7.2 GC/MS Tuning Criteria

7.2.1 Has a tuning performance compound been run for every 12 hours of sample analysis per instrument?	[X]	___	___

CONTRACTOR ACTION: If no, list date, time, instrument ID, fraction and samples run with no associated GC/MS tuning.

DATE	TIME	INSTRUMENT	FRACTION	SAMLE NUMBERS

	YES	NO	N/A
MMB ACTION: If no, reject (red-line) all associated data for that instrument which fall outside an acceptable 12 hour time interval.			
7.2.2 Have the expanded ion abundance criteria been met for each instrument used?	[X]	___	___
CONTRACTOR ACTION: Circle all data which do not meet expanded ion abundance criteria in red.			
MMB ACTION: If there is an error in mass calibration or if expanded ion abundance criteria are not met, reject (red-line) all associated data.			
7.2.3 Are the enhanced bar graph spectrum and mass/charge (m/z) listings (QC DAta Package Section 5) for the BFB provided for each twelve (12) hour shift?	[X]	___	___
CONTRACTOR ACTION: If no, please list the missing spectrum and listings on Missing Data Tracking Form.			
7.2.4 Are the enhanced bar graph spectrum and mass/charge (m/z) listings (QC Data Package Section 5) for the DFTPP provided for each twelve (12) hour shift?	[X]	___	___
CONTRACTOR ACTION: If no, please list the missing spectrum and listings on Missing Data Tracking Form.			
7.2.5 Are there any transcription errors in going from mass lists to the GC/MS Tuning and Calibration forms? (Check at least 2 values but if errors are found check more values.)	___	[X]	___
7.2.6 Have the appropriate number of significant figures (3) been reported? (Check at least 2 values, but if errors are found check more values.)	[X]	___	___
CONTRACTOR ACTION: If no, make necessary corrections in red pencil and initial.			

	YES	NO	N/A
7.2.7 Are there any calculation errors in the tuning ratios? (For example, the ratios of M/Z 199/198 and 443/442 for DFTPP.) (Check at least 2 values.) BFB (VOAs)?	___	[X]	___
DFTPP (NVOAs)?	___	[X]	___
CONTRACTOR ACTION: Recalculate, make necessary corrections in red pencil and initial.			
8.0 Is the Cross Reference Table present?	[X]	___	___

III SAMPLE DATA

9.0 Are the Traffic Report Forms present for all samples?	[___]	___	X
CONTRACTOR ACTION: List missing Traffic Reports on Missing Data Tracking Form. (See 1.1)			
10.0 Organic Analysis Data			
10.1 Are the four (4) Organic Analysis Data Sheets (Form I for VOA, BNA, Pesticides and Tentatively Identified Compounds) with completed header information required on each page present for each of the following:			
a. Samples and/or fractions as appropriate	[X]	___	___
b. Matrix spikes and matrix spike duplicates	[X]	___	___
c. Blanks	[X]	___	___
CONTRACTOR ACTION: List Missing or incomplete Data Sheets on missing Data Tracking Form. (See 1.1)			
10.2 Are the VOA/BNA Reconstructed Ion Chromatograms for each sample, the mass spectra for the identified compounds, and the Data System Printouts (Quant. list) included in the sample package for each of the following?		Data System Printouts not included but available	
a. Samples and/or fractions as appropriate	[X]*	___	___
b. Matrix spikes and matrix spike duplicates (Mass spectra not required)	[X]*	___	___
c. Blanks	[X]*	___	___

	YES	NO	N/A
10.3 Are the response factors shown in the Quant Lists?	[___]	X	___

CONTRACTOR ACTION: List Missing or incomplete Reconstructed Ion Chromatograms, mass spectra and Data System printouts on the Missing Data Tracking Form (See 1.1).

10.4 Are the Tentatively Identified Compounds (Form I, Part B) present and include scan number and estimated concentration?	[X]*	___	___

CONTRACTOR ACTION: List missing TICs, Form I on Missing Data Tracking Form (See 1.1).

Except for mass spectra for unknowns for B 11-2

10.5 Are the lab generated standard mass spectra of the identified compounds for each sample present?

a. Volatile standard spectra	[X]	___	___
b. Semi-volatile standard spectra	[X]	___	___

CONTRACTOR ACTION: List missing mass spectra on Missing Data Tracking Form (See 1.1).

11.0 GC/MS Evaluation

11.1 Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following.

a. Samples and/or fractions as appropriate	[X]	___	___
b. Blanks	[X]	___	___

CONTRACTOR ACTION: If no, list the missing numbers on the Missing Data Tracking Form (See 1.1)

12.0 Holding Times

12.1 Have any holding times from date of collection been exceeded for:

a. Volatiles

Aqueous: 10 days* from time the lab receives the sample with 24 hours allowed from time of collection to lab receipt.	___	[___]	X

	YES	NO	N/A
Soil/Sediment: 10 days from time the lab receives the sample with 24 hours allowed from time of collection to lab receipt.	___	[X]	___
b. NVOA's and Pesticides/PCBs:			
Aqueous (5 days from time of lab receipt to extraction, 40 days after extraction)	___	[___]	X
Soil/Sediment (10 days from time of lab receipt to extraction, 40 days after extraction)	___	[X]	___

Allow 24 hours from time of collection to lab receipt.

CONTRACTOR ACTION: List the samples and their respective fractions with exceedances below. (Attach additional sheets if necessary.)

Table of Holding Time Exceedances

			(See Traffic Report)		(See Form I)	(See Form & Form V
Sample	Sample Matrix	Fraction(s)	Date Sampled	Date Lab Received	Date Extracted	Date Analyzed

MMB ACTION: If these holding times are exceeded, red-line detection limits and flag all positive values with a J.

13.0 Standards Data (GC/MS)

13.1 Are the Reconstructed Ion Chromatograms, Data System Printouts (Quant. list), and work sheet calculations present for the following:

a. Semi-volatiles (initial and continuing calibrations)	[___]	X	RICs for initial calibration curve not present
b. Volatiles (initial and continuing calibrations)	[X]	___	___

All RICs continuing calibration present except for 7/5/91

	YES	NO	N/A
13.2 Are the response factors also present in the Quan List?	[ ]	X	

CONTRACTOR ACTION: List missing or incomplete RICs, Quant. lists and work sheet calculations on Missing Data Tracking Form (See 1.1).

14.0 GC/MS Initial Calibration Data Sheets (Form VI)

14.1 Are the Initial Calibration Data Sheets present and completely filled out for all compounds for the following fractions:			
a. Semi-volatiles	[X]		
b. Volatiles	[X]		

CONTRACTOR ACTION: List missing RICs, Quant. lists and work sheet calculations on Missing Data Tracking Form.

14.2 RF Stability - Form VI

14.2.1 Are response factors stable for non-CCC compounds over the concentration range of the calibration (RSD for non-CCC compounds <50%) for:	VOA's?	[X]		
	B/N?	[X]		
	Acids?	[X]		

CONTRACTOR ACTION: Circle all outliners in red.

MMB Action: For the non-CCC compounds when RSD >50% red-line the u value(s) or flag positive value(s) with a J for the associated compound(s) only.

14.2.2 Do any non-SPCC compounds have an average response factor equal to or near zero (<0.025)?	VOA's?		[X]	
	B/N?		[X]	
	Acids?		[X]	

CONTRACTOR ACTION: Circle all outliners in red.

	YES	NO	N/A
MMB ACTION: For the outlier(s) reject (red-line) u values or flag with a J positive data for the associated compound(s).			
14.3 Transcriptions and Calculations			
14.3.1 Are any transcriptions/calculation errors found in the reporting of average response factors (RF) for SPCC's? (Check at least 2 but if errors are found check more values.)	___	[X]	___
14.3.2 Are any transcription/calculation errors found in the reporting of percent RSD for CCC's? (Check 2 but if errors are found check more values.)	___	[X]	___
CONTRACTOR ACTION: Circle errors in red and enter corrected values.			
MMB ACTION: If any changes in 14.2.1 and 14.2.2 are made, see MMB ACTION under 14.3.2.			

14.4 Check Compounds - (SPCC and CCC) (Form VI)

14.4.1 How many SPCC's have an average response factor less than:		Number of Outliers	Instrument ID/Date
0.300 VOAs, except 0.250 for bromoform		0	MS 5970 6/18/91
0.05 Base/Neutrals	0/MS 5970 7/13/91	0	MS 5970 6/17/91
0.05 Acids	0/MS 5970 7/13/91	0	MS 5970 6/17/91

14.4.2 How many CCCs have greater than 30% RSD for response factors:		Number of Outliers	Instrument ID/Date
VOAs?		0	MS 5970 6/18/91
Base/Neutrals?	0/MS 5970 7/13/91	0	MS 5970 6/17/91
Acids?	0/MS 5970 7/13/91	0	MS 5970 6/17/91

MMB ACTION: For the volatile fraction, if the combined total of CCC's and SPCC's outside the acceptance limits is 5 or greater, reject all u values for the entire fraction of all samples run and flag with a J all positive values. For the acid fraction, the above applies with a combined total of 3 or greater SPCC's and CCC's. For the base/neutral fraction, the above applies with a combined total of 5 SPCC's and CCC's. If there are not enough compounds outside of acceptance to reject entire fractions, then reject or flag with a J those individual compounds for samples run within 12 hours of the calibration which have either CCC or SPCC values out of acceptance.

15.0 GC/MS Continuing Calibration

15.1 Calibration Check Sheets (Form VII)

15.1.1 Are the Calibration Check Sheets present and completely filled out for all compounds for the following fractions:	YES	NO	N/A
a. semi-volatiles	[___]	X	___
b. volatiles	[___]	X	___

CONTRACTOR ACTION: List missing calibration check sheets on Missing Data Tracking Form (See 1.1).

15.2 Has a continuing calibration been run for every 12 hours of sample analysis per instrument?			
	[X]*	___	___

CONTRACTOR ACTION: List below all samples which do not have a continuing calibration within 12 hours.

Calibration missing ketones

MMB ACTION: If no (for either initial or continuing), reject (red-line) all corresponding sample data.

15.3 Form VII: Check Compounds (SPCC & CCC) Form VII - System Performance Calibration Compounds (SPCC) and Calibration Check Compounds (CCC)

15.3.1 How many SPCC's have an average response factor less than:

	Number of Outliers	Instrum ID/Dat
0.300 VOAs, except 0.250 for bromoform	0	MS 5970 6/19/91
0.05 Base/Neutrals	0	MS 5970 6/19/91
0.05 Acids	0	MS 5970 6/19/91

15.3.2 How many CCC's have a greater than 25% D for response factors:

	Number of Outliers	Instrum ID/ Dat
VOAs?	0	MS 5970 6/19/91
Base/Neutrals?	0	MS 5970 6/19/91
Acids?	0	MS 5970 6/19/91

CONTRACTOR ACTION: Circle all outliers in red. List below the dates of continuing calibrations with outliers, and the associated samples.

MMB ACTION: For the volatile fraction, if the combined total of CCC's and SPCC's outside the acceptance limits is 5 or greater, reject all u values for the entire fraction of all samples run and flag all positive data with a J. For the acid fraction, the above applies with a combined total of 3 or greater SPCC's and CCC's. For the base/neutral fraction, the above applies with a combined total of 5 SPCC's and CCC's. If there are not enough compounds outside of acceptance to reject entire fractions, then reject or flag with a J those individual compounds for samples run within 12 hours of the calibration which have either CCC or SPCC values out of acceptance.

	YES	NO	N/A
15.3.3 Are any transcription/calculation errors found in reporting %D values between initial calibration RFs and continuing calibration RFs? (Check at least 2 but if errors are found check more values).	___	[X]	___

CONTRACTOR ACTION: Circle errors in red and make any necessary corrections.

MMB ACTION: Check any necesary corrections and if any changes were made, see ACTION under section 15.3.2.

15.4 Internal Standard Area Summary (Form VIII)

15.4.1 Are the internal standard summary sheets (Form VIII) present and complete with all the required information?

VOA	[X]	___	___
BNA	[X]	___	___

CONTRACTOR: List missing or incomplete summary sheets on missing tracking form (see 1.1).

15.4.2 Are the internal standard areas within the upper and lower limits for each sample and blank analyzed under a given continuing calibration?

VOA	[X]	___	___
BNA	[X]	___	___

CONTRACTOR: List all the outliers.

Sample #	Internal Std	Area	Lower Limit	Upper Limit

(Attach additional sheets if necessary.)

MMB ACTION: Use professional judgement to determine effect on data. Acceptance or rejection should not be based solely on the internal standard areas but should be determined in conjunction with other QA/QC data.

	YES	NO	N/A
16.0 Pesticide Data Package (Forms VIII, IX, and X)			
16.1 Is the Pesticide Evaluation Check for Linearity Summary (Form VIII) present?	[X]	___	___
16.2 Is the Evaluation Check for 4 4'DDT/Endrin breakdown present (Form VIII)?	[X]	___	___
16.3 Is the pesticide/PCB standards summary (Form IX) present?	[X]	___	___
16.4 Is the pesticide/PCB identification summary (Form X) present?	[X]	___	___
16.5 Are the following Gas Chromatograms and Data System Printouts for both Primary and Confirmation columns present?	Confirming column printouts only present when compound detected		
a. Evaluation Standard Mix A	[X]*	___	___
b. Evaluation Standard Mix B	[X]*	___	___
c. Evaluation Standard Mix C	[X]*	___	___
d. Individual Standard Mix A	[X]*	___	___
e. Individual Standard Mix B	[X]*	___	___
f. Multi-component Pesticides Toxaphene Chlordane	[X]*	___	___
g. Aroclors 1016/1260	[X]*	___	___
h. Aroclors 1221, 1232, 1242, 1248 and 1254	[X]*	___	___
16.6 Are the Gas Chromatograms and Data System for both primary and confirmation columns if required present?	[X]	___	___

CONTRACTOR ACTION: For all missing forms, chromatograms data system printouts and confirmation column data list on the Missing Data Tracking Form (See 1.1).

	YES	NO	N/A
17.0 GC Performance and Calibration			
17.1 DDT Retention Time check - Is DDT retention time on packed columns greater than or equal to 12 minutes? (Form IX-PEST)	[X]	___	___
CONTRACTOR ACTION: If DDT retention times on packed columns is <12 minutes circle in red.			
17.2 Analytical Sequence - Form VIII			
17.2.1 Have all standards been run within required time frames? (Quantitation and Confirmation column runs)	[X]	___	___
MMB ACTION: If no, use professional judgment to determine severity of effects on data, and accept or reject the data accordingly.			
17.2.2 Has the proper sequence of standards and samples been followed. (p. PEST D-36, Section 6.1.3.5)	[X]	___	___
MMB ACTION: If no, use professional judgment to determine severity of effects on data, and accept or reject the data accordingly.			
17.3 DDT/Endrin Degradation Check (Form VIII, PEST-1) - Has the total percent breakdown for DDT/Endrin exceeded 20%?	___	[X]	___
CONTRACTOR ACTION: Circle all outliers in red.			

MMB ACTION:

1) If DDT breakdown is greater than 20%:

   a. all positive results for DDT shall be flagged with a J;

   b. qualitative and quantitative results for DDD and DDE shall be rejected; and,

   c. all other pesticides/PCB results should be inspected closely for acceptability.

2) If endrin breakdown is greater than 20%:

   a. all positive results for endrin shall be flagged with a J;

	YES	NO	N/A
b. qualitative and quantitative results for endrin aldehyde and endrin ketone should be rejected; and,			
c. all other results should be inspected closely for acceptability.			
17.4 DBC Retention Time Check - Is percent difference between each analysis and Initial Evaluation Check (Form VIII, PEST 2) less than 2% for packed columns, and less than 0.3% for capillary columns and less than 1% for megabore capillary columns.	[X]	___	___

CLP ACTION: List samples with outliers below:

DATE	TIME OF RUN	SAMLE NUMBERS
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

MMB ACTION: If no, corresponding sample fractions should be rejected (red-lined). NOTE: the absence of a DBC peak does not constitute a violation of the above condition, since DBC may be absent due to low recovery or dilution. If DBC peak is absent use professional judgment to determine acceptability of data.

17.5 Initial Calibration

		YES	NO	N/A
17.5.1 Linearity Check - Is the % RSD of calibration factors (Form VIII) less than 10% (on the quantitation column) for each 72 hour period for:	Aldrin?	[X]	___	___
	Eldrin?	[___]	X	___
	DDT?	[___]	X	___
	Dibutylchlorendate?	[___]	X	___

CONTRACTOR ACTION: Circle all outliers in red.

All outliners have been circled
4-4' DOT on page 1182 and 1193
DBC on page 1193
ENDRIN on page 1239

MMB ACTION: If no, all associated positive results should be flagged with a J.

	YES	NO	N/A
17.6 Continuing Calibration (Form IX-PEST).			
17.6.1 Are the alternating standards' calibration factors within 15% of calibration factors for Ind. A & B at the beginning of the 72 hour period (20% for both of above for non-quantitation mix)?			
Quantitation Mix	[ ]	X	
Non-Quantitative Mix	[X]		
17.6.2 If no, were analyses repeated as required by contract?	[ ]	X	
17.6.3 Were repeats within contract limits?	[ ]		X

CONTRACTOR ACTION: Circle all outliers in red.

Methoxychlor value on page 1290 circled

MMB ACTION: If quantitation standards were outside of contract limits, flag with a J all associated positive results. If non-quantitation standards were outside of contract limits, use professional judgment to determine acceptability of data.

18.0 GC Evaluation (Form X-PEST)

18.1 Pesticide/PCB Identification - Are retention times of standard and sample compounds within the calculated retention time windows for the:			
Quantitation Column?	[X]		
Confirmation Column?	[X]		

CONTRACTOR ACTION: Circle all outliners in red.

19.0 Package Copies

19.1 Are all the xeroxing of readable quality?	[X]		

CONTRACTOR ACTION: If not, list appropriate page numbers on Missing Data Tracking Form (See 1.1).

CONTRACTOR PREPARER _____ COMPLETION DATE _____

Title: Attachment 1 - CLP Data Assessment Checklist
(GC and GC/MS Analysis)
PART II: MMB Review - TOTAL REVIEW

	YES	NO	N/A
1.0 Data Completeness and Deliverables			
1.1 Have all the missing deliverables been received and added to the data package.	[ ]	X	
MMB ACTION: Note any missing data and its effect on reviewing the package under conclusions section contract problems/non-compliance.	Data missing is not available except for sample Quant. Sheets		
I CASE NARRATIVE			
2.0 Cover Letter/Case Narrative			
2.1 Are the Case Number and/or SAS Number, Contract Number and Superfund Account Number correct?	[ ]		X
II QC SUMMARY RESULTS			
3.0 Surrogate Spikes			
3.1 Were any transcription/calculation errors found between raw data and Surrogate Per Cent Recovery Form?		[X]	
MMB ACTION: Make any necessary corrections, and note errors under Conclusions.			
3.2 Were the appropriate actions designated MMB ACTION Paragraph 3 in Part I taken?	[X]		
4.0 Matrix Spikes			
4.1 Was Matrix Spike data used in conjunction with other QC criteria in determining the acceptability of reported data?	[X]		
5.0 Blanks			
5.1 Chromatography - review the blank raw data - chromatograms, RICs, quan reports or data system printouts and spectra. Is chromatographic performance for each instrument acceptable for:			
VOA's?	[X]		
B/N & Acids?	[X]		
Pest/PCB's?	[X]		

	YES	NO	N/A
6.0 GC/MS Tuning and Mass Calibration			
6.1 Are the spectra of the mass calibration compounds acceptable?	[X]	___	___
MMB ACTION: Use professional judgment to determine whether associated data should be accepted, qualified, or rejected.			
7.0 Cross Reference Table			
7.1 If a cross-reference table is missing, are the sample runs clearly labeled and not confusing to the reviewer?	[X]	___	___
III SAMPLE DATA PACKAGE			
8.0 Traffic Report			
8.1 Do the Traffic Reports indicate any problems with sample receipt, condition of samples or special notations affecting the quality of the data?	___	[___]	X
MMB ACTION: Use professional judgment in evaluating any effect on the quality of the data.			
9.0 Organic Analysis Data			
9.1 Compound ID - Qualitative Requirements			
19.1.1 Chromatography - Is chromatography performance acceptable for the following?			
Baseline stability	[X]	___	___
Resolution	[X]	___	___
Peak shape	[X]	___	___
Full-scale setting (attenuation)	[X]	___	___
Other:_____	[___]	___	___
MMB ACTION: Use professional judgment to determine the acceptability of the data.			

	YES	NO	N/A
10.0 GC/MS Evaluation			
10.1 HSL Compounds			
10.1.1 Is the RRT of reported compounds within 0.06 RRT units of the standard RRT?	[X]	___	___
10.1.2 Are all ions present in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?	[X]	___	___
10.1.3 Are all ions present in the sample, but not present in the standard accounted for?	[X]	___	___
10.1.4 Do relative intensities specified above agree within 20% between the sample and standard spectra?	[X]	___	___
MMB ACTION: Use professional judgment to determine acceptability of data: if it is determined that incorrect ID's were made, all such data should be red-lined and changed to the calculated detection limits. Ions greater than 10% in the sample spectrum but not present in the standard spectrum must be considered and accounted for.			
10.1.5 Check at least 2 of all positive values. Were any errors found in: Transcriptions?	___	[X]	___
Calculations?	___	[X]	___
MMB ACTION: Make any necessary corrections and note errors under Conclusions.			
10.2 Tentative ID - Non-HSL Compounds			
10.2.1 Are all ions present in the reference mass spectrum with a relative intensity greater than 10% present in the sample mass spectrum?	[X]	___	___
10.2.2 Do relative intensities specified above agree within 20% between the sample and reference spectra?	[X]	___	___
10.2.3 Are molecular ions present in reference spectrum present in sample spectrum?	[X]	___	___

Title: Attachment 1 - CLP Data Assessment Checklist
(GC and GC/MS Analysis)
PART II: MMB Review - TOTAL REVIEW

	YES	NO	N/A
10.2.4 Are all non-HSL compounds classified as tentatively identified reported with estimated quantitation and detection limits?	[X]	___	___
MMB ACTION: Use professional judgment to determine acceptability of data. If data is considered to be unacceptable, the tentative ID should be changed to "unknown".			
11.0 Holding Times			
11.1 Have all associated sample data which have exceeded holding times been red-lined on the data sheet (including detection limits) indicating rejection?	[___]	___	X
MMB ACTION: Make any necessary corrections.			
12.0 GC Evaluation			
12.1 Do chromatograms and data system printouts confirm retention times, retention time windows, and reported values (Forms IX-PEST 1 and X-PEST 2)?	[X]	___	___
12.2 Do positive identifications have proper dissimilar column analysis?	[X]	___	___
12.3 Are retention times of standard and sample compounds within the calculated retention times windows for the:			
Quantitation Column?	[X]	___	___
Confirmation Column?	[X]	___	___
12.4 If concentration is sufficient (>10 ug/ml in the extract), is GC/GS confirmation provided?	[___]	___	NA
MMB ACTION: Reject (red-line) all positive results (meeting quantitation column criteria, but missing confirmation by a second column or GC/MS (if appropriate). Also reject (red-line) all positive results not meeting retention time window criteria unless associated standard compounds are similarly biased.			

	YES	NO	N/A
12.5 Check 10% of all positive values. Were any errors found in:			
Transcriptions?	___	[X]	___
Calculations?	___	[X]	___

MMB ACTION: Make any necessary corrections and note errors under Conclusions.

13.0 GC/MS Standards Data

13.1 Have all missing standards data been added to the package?	[___]	___	X

MMB ACTION: Same as for Sec. 1.1, Part II.

14.0 GC/MS Initial Calibration

14.1 If initial calibration raw data is provided, is chromatographic performance acceptable for each instrument?	[X]	___	___

MMB ACTION: List exceptions under Conclusions. Use professional judgment to determine effect on data. Acceptance or rejection should not be based solely on this factor, but should be determined in conjunction with other criteria.

15.0 Transcription and Calculation

15.1 Are any transcription/calculation errors found in the reporting of response factors (RF) for SPCCs? Check at least 2 but if errors are found check more values.	___	[X]	___

MMB ACTION: Make any necessary corrections. If changes were made, use professional judgment to determine effect on data.

15.2 Check Compounds - (SPCC and CCC)

15.2.1 Have all associated sample data which have exceeded the combined SPCC and CCC's (see MMB Action Section 14.3 Part I) been red-lined or flagged on the data sheet indicating rejection or an estimated value?	[X]	___	___

MMB ACTION: If no, make any necessary corrections.

Title: Attachment 1 - CLP Data Assessment Checklist
(GC and GC/MS Analysis)
PART II: MMB Review - TOTAL REVIEW

	YES	NO	N/A
16.0 GC/MS Continuing Calibration			
16.1 Were any analytes rejected due to exceedances of Continuing Calibration criteria (See Sec. 15 of Part I)?	___	[X]	___
MMB ACTION: Check Form I's to assure rejected data has been red-lined, and check data assessment narrative (Sec. 19.1) for appropriate comments. Make any necessary corrections.			
17.0 Pesticide Data Package			
17.1 Have all missing pesticide data forms been added to the package?	[___]	___	X
MMB ACTION: Same as for Sec. 1.1, Part II.			
18.0 GC Performance and Calibration - Pesticides/PCBs			
18.1 DDT Retention Time Check - Is DDT retention time on packed columns greater than or equal to 12 minutes?	[X]	___	___
If no on Contractor checklist, check compound separation. Is adequate separation achieved?	[___]	___	X
MMB ACTION: If adequate separation is not achieved reject (red-line) all affected compound data.			
18.2 Retention Time Windows - Have retention time windows been properly determined and documented for each compound?	[X]	___	___
MMB ACTION: Recalculate if errors are found, and note errors under Conclusions. If documentation is missing, notify DRC or DPO.			
18.3 Do chromatograms and printouts verify data as reported on the Pesticide Evaluation Standards Summary (Form VIII)?	[X]	___	___
18.4 Were calibration factors calculated and transposed correctly (check at least 2 calibration factors; but if errors are found check more)?	[X]	___	___
MMB ACTION: Make any necessary corrections and reapply criteria in Part I, section 17.6. Note errors under Conclusions.			

Title: Attachment 2 - CLP Data Assessment Checklist
(GC and GC/MS Analysis)
PART II: MMB Review - TOTAL REVIEW

CASE # _____ LAB Advanced Environmental Services SITE Tops Markets, Inc. Niagara Falls Blvd.

19.0 Conclusions: (NOTE: Reviewers must red-line unacceptable data on sample data (FORM I) sheets; red-line data does not imply the compound is not present). Only the MMB reviewer has the authority to red-line unacceptable data. The letter J indicates an estimated value. In addition to the two definitions stated in the contract it also implies that the analyte is present but the quantitative value contains an unspecified degree of error. If an accurate quantity is desired, resampling/analysis is recommended.

19.1 Data Assessment All unacceptable data redlined.

19.2 Contract Problems/Non-compliance To avoid contusion by using the flag "J" for both the samples and the surrogate, the flag "JS" has been used for positive values in the surrogates.

Reviewer's Signature: _____ Date: _____

Verified By: Stephen S. Ogenski Date: 8-20-91

Title: Attachment 1 - CLP Data Assessment Checklist
(GC and GC/MS Analysis)
PART II: MMB Review

Date: Nov. 6, 1987
Number: HW-4
Revision: 3

Site Name: Tops Markets, Inc. Niagara Falls Blvd. Case # and/or SAS #: NA

CLP Laboratory: Advanced Environmental Service Preliminary Reviewer: [signature]

Checklist Section Number	Missing Information	Date Requested From Laboratory	Date Missing Information Due From Laboratory	Date Missing Information Received From Laboratory
10.2	Quant. List - not requested	/ /	/ /	/ /
10.3	Quant List - not requested	/ /	/ /	/ /
10.4	Mass Spectra for unknowns for B11-2	/ / Data lost in computer	/ /	/ /
13.1	Initial Semi Volatile RIC	Not Available / /	/ /	/ /
13.2	RFs Missing - printout of areas present	/ /	/ /	/ /
15.0	Calibration Check Sheets for 6/19/91 SPCC and CCC only - as per SW846 Method 8080	/ /	/ /	/ /
		/ /	/ /	/ /
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	YES	NO	N/A
A.1.1 Contract Compliance Screening Report (CCS) - Present?	___	___	X
A.1.2 Record of Communication (from RSCC) - Present?	[___]	___	X
ACTION: If no, request from RSCC.			
A.1.3 Sample Traffic Report - Present or on file?	[___]	___	X
Legible?	[___]	___	X
ACTION: If no, request from Regional Sample Control Center (RSCC).			
A.1.4 Cover Page - Present?	[X]	___	___
ACTION: If no, prepare Telephone Record Log, and contact laboratory.			
Do numbers of samples correspond to numbers on Record of Communication?	[___]	___	X
Do sample numbers on cover page agree with sample numbers on: (a) Traffic Report Sheets?	[___]	___	X
(b) Form I's?	[X]	___	___
(c) Surveilliance and Monitoring Branch Review?	[___]	___	X
ACTION: If no for any of the above, contact RSCC for clarification.			
A.1.5 Form I (Final Data) - Are all form I's present and complete?	[X]	___	___
ACTION: If no, prepare telephone record log and contact laboratory for submittal.			
Are correct units (ug/l for waters and mg/kg for soils) indicated in Form I's?	[X]	___	___
Are sample results for each parameter corrected for percent solids on soils?	[X]	___	___

	YES	NO	N/A
Do any computation/transcription errors exceed 10% of reported values?	___	[X]	___
Are all "less than" values properly coded with "U"?	[X]	___	___
ACTION: If no for any of above, prepare telephone Record Log, and contract laboratory for corrected data.			
Was a brief physical description of samples given in comments section?	[X]	___	___
Were footnotes indicated on cover page used correctly with final data?	[X]	___	___
Were any samples diluted beyond requirements of contract?	___	[X]	___
If yes, were dilutions noted on Form Is?	[___]	___	X
ACTION: If no for any of above, note under contract problem/non compliance of data assessment narrative.			

A.1.6 Holding Times - (aqueous samples only) (examine sample traffic reports and Form X)

Mercury (28 days). . . . . exceeded?	___	[X]	___
Cyanide (14 days). . . . . exceeded?	___	[X]	___
Other Metals (6 months). . . . . exceeded?	___	[X]	___

Which parameters?_____

CONTRACTOR ACTION: Prepare a list of all samples and analytes for which holding times have been exceeded. Specify the number of days from date of collection to the date of analysis (from raw data). Attach to checklist.

EPA ACTION: If yes, reject (red-line) values less than Instrument Detection Limit (IDL) flag as estimated (J) those values above IDL.

		YES	NO	N/A
A.1.7 Raw Data				
A.1.7.1 Digestion Log* for flameAA/ICP present?		[X]	___	___
Digestion Log for furnace AA present?		[X]	___	___
Digestion Log for mercury present?		[X]	___	___
Digestion Log for cyanides present?		[X]	___	___
*Weights, dilutions and volumes used to obtain values.				
Percent solids calculation present for soil (sediments)?		[X]	___	___
Are preparation dates present on Digestion log?		[X]	___	___
A.1.7.2 Measurement read out record present?	ICP	[___]	___	X
	Flame AA	[X]	___	___
	Furnace AA	[X]	___	___
	Mercury	[X]	___	___
	Cyanides	[X]	___	___
A.1.7.3 Are all raw data to support all sample analyses and QC operation's present?		[X]	___	___
Legible?		[X]	___	___
Properly Labeled?		[X]	___	___

MMB ACTION: If no for any of above, write Telephone Record Log and contact laboratory.

A.1.7.4 Is record of at least 2 point calibration present for ICP?		[___]	___	X
Is record of 4 point calibration present for:	Flame AA?	[___]	X	___
	Furnace AA?	[___]	X	___

NOTE: If less than 4, other standards must be run immediately after calibration and be ± 5% of true value.

Calibration Stds Run - all results +/- 5% of true val

	YES	NO	N/A
MMB ACTION: Flag associated data if standards are not within ±5% of true values.			
Is record of 4 point calibration present for: Mercury?	[X]	___	___
Cyanide?	[X]	___	___
MMB ACTION: If no for any of above, prepare Telephone Record Log and contact laboratory.			
A.1.8 Data Validation and Verification			
A.1.8.1 Form II (Initial and Continuing Calibration Verification) -			
A.1.8.1.1 Present and complete for every metal and cyanide?	[X]	___	___
Present and complete for AA and ICP when both are used for same analyte?	[___]	___	X
MMB ACTION: If no for any of above, prepare Telephone Record Log and contact laboratory.			
A.1.8.1.2 Circle all values on data summary sheet that are outside of contract windows. Are all calibration standards (initial and continuing) within control limits? Metals 90-110%	[X]	___	___
Hg and Sn 80-120%	[X]	___	X - for Tin
Cyanides 85-115%	[X]	___	___
Are all calibration standards (initial and continuing) within 50-150%?	[X]	___	___
MMB ACTION: Flag as estimated (J) all positive data (not flagged with a "U") analyzed between a calibration standard of 50-89% (50-79% for Hg and Sn) or 111-150% (121-150% for Hg and Sn) recovery and nearest adjacent calibration standards. Flag as estimated (J) all positive cyanide data if calibration standards are between 50-84% or 116-150%. Reject (red-line) as unacceptable data if recovery of calibration standard is below 50% or above 150% for nearest adjacent standards.			

	YES	NO	N/A
Was continuing calibration performed every 10 samples or every 2 hours?	[X]	___	___
MMB ACTION: If no, flag the excess samples (eleventh and up) data as estimated (J).			
A.1.8.2 Form III (Initial and Continuing Calibration Blanks)			
A.1.8.2.1 Present and complete?	[X]	___	___
For both AA and ICP when both are used for same analyte?	[___]	___	X
MMB ACTION: If no, prepare Telephone Record Log and contact laboratory.			
A.1.8.2.2 Circle all calibration blank values on Data Summary Sheet that are above IDL. Are all calibration blanks less than contract Required Detection Limits (CRDL)?	[X]	___	___
Are all calibration blanks less than Instrument Detection Limit (if IDL>CRDL) when sample concentrations are greater than 2xIDL?	[X]	___	___
MMB ACTION: If no for any of above flag as estimated (J) on form I'S all data between calibration blank with value over CRDL or IDL and nearest adjacent calibration blank.			
A.1.8.2.3 Was an initial calibration blank analyzed?	[X]	___	___
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (whichever is more frequent)?	[X]	___	___
MMB ACTION: If no, flag as estimated (J) all values not analyzed within 5 samples of calibration blank.			
A.1.8.3 FORM III (Preparation Blank)			
A.1.8.3.1 Was one prep. blank analyzed for: each 20 samples?	[X]	___	___
each batch?	[X]	___	___
each matrix type?	[___]	___	X

	YES	NO	N/A
For both AA and ICP when both are used for same analyte?	[ ]		X

MMB ACTION: If no for any of above, flag as estimated (J) all associated data for which prep. blank was not analyzed.
NOTE: If only one blank was analyzed for more than 20 samples, then first 20 samples analyzed do not have to be flagged as estimated (J).

A.1.8.3.2 Do concentrations of prep. blank fall below two times IDL when IDL is grater than CRDL? [X] — —

MMB ACTION: If no, reject (red-line) all data that has a concentration less than 10 times the prep. blank value, but not flagged with a "U" (less than).

(NOTE: The preparation blank for mercury is the same as the calibration balnk.)

A.1.8.3.3 Is concentration of prep. blank greater than CRDL when IDL is less than CRDL? — [X] —

If yes, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank value? — [ ] X

MMB ACTION: If yes, reject (red-line) all associated data that has a concentration less than ten times the prep. blank value, but not flagged with a "U" (less than).

A.1.8.4 Form IV (ICP Interference Check Sample)

A.1.8.4.1 Present and complete? [ ] — X

(NOTE: Not required for furnace AA, flame AA, mercury, cyanide and Ca, Mg, K and Na.)

A.1.8.4.2 Circle all values on Data Summary Sheet that are more than ± 20% of true or established mean-value. Are all Interference Check Sample results inside of control limits (± 20%)? [ ] — X

		YES	NO	N/A
	If no, is concentration of Al, Ca, Fe, or Mg lower in sample than in ICS?	[___]	___	X
	MMB ACTION: If no, flag as estimated (J) those sample results for which ICS recovery is between 50-79% or 121-150% of mean value; and reject (red-line) those sample results for which ICS recovery is less than 50%. If ICS recovery is above 150%, ~~Reject~~ positive results only (not flagged with a "U").			
A.1.8.4.3	Was ICS analyzed at beginning and end of run (and at least once every 8 hours)?	[___]	___	X
	MMB ACTION: If no flag as estimated (J) all samples for which AL, Ca, Fe, or Mg is higher than in ICS			
A.1.8.5	Form IX (ICP Serial Dilution) - (Form IX is not required under SOW 784. The data reviewer must prepare the form.)			
A.1.8.5.1	Was Serial Dilution analysis performed for: each 20 samples?	[___]	___	X
	each matrix type?	[___]	___	X
	each concentration range (i.e. low, med., high)?	[___]	___	X
	If no for any of above, is any sample(s) concentration (undiluted) greater than 10 x IDL?	___	[___]	X
	MMB ACTION: If yes, flag all associated data as estimated (J) for which Serial Dilution Analysis was not performed and summarize the deficiency on the DRO report.			
A.1.8.5.2	Was field blank(s) used for Serial Dilution Analysis?	___	[___]	X
	If yes, was field blank described as such on Traffic Report?	___	[___]	X
	MMB ACTION: If yes, flag all associated data > 10 x IDL as estimated (J).			
A.1.8.5.3	Circle all values on Data Summary Sheet with a percent difference greater than 10%. Are all ICP Serial Dilution results within control limit of 10%?	[___]	___	X

	YES	NO	N/A
If no, are all associated data on Form I's flagged with an "E"?	[___]	___	X

MMB ACTION: If not flagged with an "E", flag as estimated (J) all associated sample results for which percent difference is greater than 10% but less than 100%; reject (red-line) all associated sample results for which PD is above 100%.

A.1.8.6 Form V (Spiked Sample Recovery) - (NOTE: Not required for Ca, Mg, K, and Na (both matrices), Al, and Fe (soil only).

A.1.8.6.1 Present and complete for: each 20 samples?	[X]	___	___
each matrix type? **only one matrix**	[X]	___	___
each conc. range (i.e. low, med., high)? **only one range**	[X]	___	___
For both AA and ICP when both are used for same analyte?	[___]	___	X

MMB ACTION: If no for any of above, flag as estimated (J) all data for which spiked sample was not analyzed. NOTE: If one spiked sample was analyzed for more than 20 samples, then first 20 samples analyzed do not have to be flagged as estimated (J).

A.1.8.6.2 Was field blank used for spiked sample?	[___]	X	___
If yes, was field blank described as such on Traffic Report?	[___]	___	X

MMB ACTION: If yes, flag all positive data as estimated (J) for which field blank was used as spiked sample.

A.1.8.6.3 Circle all values on Data Summary Sheet that are outside of control limits (75% to 125%). Are all recoveries within control limits?	[___]	X	**indicated with a "N"** ___
If no, is sample concentration greater than four times spike concentration?	[X]	___	**X for all others** ___ **yes for Al, Fe, Pb**

	YES	NO	N/A
MMB ACTION: If yes, disregard spike recoveries for analytes whose concentrations are greater than four times spike added. If no, circle those analytes on Form V for which sample concentration was not greater than four times the spike concentration.	X		

A.1.8.6.4 Aqueous

Are any spike recoveries (a) less than 30%?	___	[___]	X
(b) between 30-74%?	___	[___]	X
(c) between 126-150%?	___	[___]	X
(d) greater than 150%?	___	[___]	X

MMB ACTION: If less than 30%, reject all associated aqueous data. If between 30-74%, flag all associated aqueous data as estimated (J). If between 126-150%, flag as estimated (J) all associated aqueous data not flagged with a "U". If greater than 150%, reject (red-line) all associated aqueous data not flagged with a "U".

A.1.8.6.5 Soil/Sediment

Are any recoveries (a) less than 75%?	X	[___]	___
(b) greater than 125%?	X	[___]	___

MMB ACTION: If less than 75%, flag all associated data as estimated (J). If greater than 125%, flag as estimated (J) all associated data not flagged with a "U".

Flagged with an N as per ASP Sept. 1989

A.1.8.7 Form VI (Lab Duplicates)

A.1.8.7.1 Present and complete for:	each 20 samples?	[X]	___	___
	each matrix type?	[X]	only one	___
	each concentration range (i.e. low, med., high)?	[___]	___	X
	For both AA and ICP when both are used for same analyte?	[___]	___	X

		YES	NO	N/A
	MMB ACTION: If no for any above, flag as estimated (J) all data >CRDL for which duplicate sample was not analyzed. Note: If one duplicate sample was analyzed for more than 20 samples, then first 20 samples analyzed do not have to be flagged as estimated (J).			
A.1.8.7.2	Circle all values on Data Summary Sheet that are outside control limits: Aqueous Samples (a) 20% RPD or (b) CRDL Soil Samples (a) 35% RPD or (b) CRDL			
	Are all values within control limits?	[ ]	X	
	If no, are all results outside the control limits flagged with an * on form I's and VI?	[X]		
	ACTION: If no, write in the contract problems/non-compliance section of narrative.			
A.1.8.7.3	Was field blank used for duplicate analysis?		[X]	
	If yes, was field blank identified as such on Traffic Report?		[ ]	X
	ACTION: If yes, flag all data >CRDL as estimated (J) for which field blank was used as duplicate.			
A.1.8.7.4	Is "NC" reported in RPD column for any sample duplicate pair where either value is less than CRDL?	[ ]		X
	MMB ACTION: If no, write in "NC" with red pencil on form VI and initial. Note under Data Acceptibility Narrative (contract non-compliance).	**CRDLs for water samples only - No CRDLs for metals**		
A.1.8.7.5	Is any value for sample duplicate pair less than CRDL and other value greater than 10 x CRDL?		[X]	
	MMB ACTION: If yes, reject associated data.			
A.1.8.7.6	Aqueous			
	Is any RPD greater than 50% where sample and duplicate are both greater than 5 times CRDL?		[ ]	X

	YES	NO	N/A
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL but greater than CRDL?	___	[___]	X

MMB ACTION: If yes, reject (red-line) all associated data.

A.1.8.7.7 Soil/Sediment

	YES	NO	N/A
Is any RPD greater than 100% where sample and duplicate are both greater than 5 times CRDL?	X	[___]	___
Is any difference between sample and duplicate greater than 2 times CRDL where sample and/or duplicate is less than 5 times CRDL but greater than CRDL?	___	[X]	___

MMB ACTION: If yes, reject (red-line) all associated data.

Calcium for B 13-1 Rejected on Form 1

A.1.8.8 Field Duplicates

A.1.8.8.1 Were field duplicates analyzed?	[___]	X	___

ACTION: If yes, prepare a Form VI for each sample duplicate pair, calculate RPD where both values are greater than CRDL.

NOTE: Reject (red-line) all associated data for field duplicates only.

A.1.8.8.2 Circle all values on Data Summary Sheet that are outside control limits:

Aqueous Samples (a) 20% RPD or
(b) CRDL

Soil Samples (a) 35% RPD or
(b) CRDL

Are all values within control limits?	[___]	___	X
If no, are all results outside the control limits flagged with an * on form I's and VI?	[___]	___	X

ACTION: If no, write in the contract problems/ non compliance section of narrative.

	YES	NO	N/A
A.1.8.8.3 Is "NC" reported in RPD column for any sample duplicate pair where either value is less than CRDL?	[___]	___	X
MMB ACTION: If no, write in "NC" with red pencil on form VI and initial. Note under Data Acceptibility Narrative (contract non-compliance).			
A.1.8.8.4 Is any value for sample duplicate pair less than CRDL and other value greater than 10 x CRDL?	___	[___]	X
MMB ACTION: If yes, reject associated data.			
A.1.8.8.5 Aqueous			
Is any RPD greater than 50% where sample and duplicate are both greater than 5 times CRDL?	___	[___]	X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL but greater than CRDL?	___	[___]	X
MMB ACTION: If yes, reject (red-line) all associated data.			
A.1.8.8.6 Soil/Sediment			
Is any RPD greater than 100% where sample and duplicate are both greater than 5 times CRDL?	___	[___]	X
Is any difference between sample and duplicate greater than 2 times CRDL where sample and/or duplicate is less than 5 times CRDL but greater than CRDL?	___	[___]	X
MMB ACTION: If yes, reject (red-line) all associated data.			
A.1.8.9 Form VII (Instrument Detection Limits) - (Note: IDL - not required for cyanide.)			
A.1.8.9.1 Are IDLS present for all analytes?	[___]	___	X
For both AA and ICP when both are used for same analyte?	[___]	___	X
MMB ACTION: If no for any of above, prepare Telephone Record Log and contact laboratory.			

	YES	NO	N/A
Is IDL greater than CRDL for any analyte?	___	[___]	X
If yes, is the concentration of the sample analyzed on the instrument whose IDL exceeds CRDL, is greater than two times IDL.	[___]	___	X

MMB ACTION: If no, reject (red-line) all values less than two times IDL of the instrument whose IDL exceeds CRDL.

A.1.8.10 Form VII (Laboratory Control Sample) (Note: LCS - not required for aqueous Hg.)

A.1.8.10.1 Was one LCS prepared and analyzed for: every 20 water samples?	[___]	___	X
every month for solid samples?	[___]	___	X
for both AA and ICP when both are used for same analyte?	[___]	___	X

MMB ACTION: If no for any of above, prepare Telephone Record Log and contact laboratory for submittal of monthly results of solid LCS. Flag as estimated (J) all aqueous data for which LCS was not analyzed.

NOTE: If only one LCS was analyzed for more than 20 samples, then first 20 samples close to LCS do not have to be flagged as estimated.

A.1.8.10.2 Circle all LCS values outside of control limits (80% to 120%) on Data Summary Sheet.

Is any LCS value: less than 50%?	___	[___]	X
between 50% and 79%?	___	[___]	X
between 121% and 150%?	___	[___]	X
greater than 150%?	___	[___]	X

MMB ACTION: Less than 50%, reject (red-line) all data; between between 50% to 79%, flag all associated data as estimated (J); between 121% to 150%, flag all positive (not flagged with a "U") results as estimated; greater than 150%, reject all positive results.

	YES	NO	N/A
A.1.8.10.3 Is "NC" reported for an analyte in % R column of Form VIII?	___	[___]	X
If yes, does concentration of the analyte fall within acceptable range of LCS?	[___]	___	X
MMB ACTION: If no, flag associated data as estimated (J).			
A.1.8.11 Furnace Atomic Absorbtion (AA) QC Analysis			
A.1.8.11.1 Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?	[X]	___	___
MMB ACTION: If no, reject the data on Form I's for which duplicate injections were not performed.			
A.1.8.11.2 Is post digestion spike recovery less than 10% for any result?	___	[X]	___
MMB ACTION: If yes, reject (red-line) the affected data.	[___]	___	X
A.1.8.11.3 Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of variation (CV) for concentration greater than CRDL?	[X]	___	___
Was a dilution analyzed for sample with post digestion spike recovery less than 40%?	[___]	___	X
MMB ACTION: If no for any of above, flag all the associated data as estimated (J).			
A.1.8.12 Form VIII (Method of Standard Addition Results)			
A.1.8.12.1 Present?	[___]	X	___
If no, is any Form I result coded with "S" or a "+"?	___	[X]	___
ACTION: If yes, write request on Telephone Record Log and contact laboratory for submittal of Form VIII.			
A.1.8.12.2 Was MSA required for any sample but not performed?	___	[X]	___
Is coefficient of correlation for MSA less than 0.995?	___	[___]	X
MMB ACTION: If yes for any of above flag all the associated data as estimated (J).			

	YES	NO	N/A
A.1.8.12.3 Is coefficient of correlation for MSA less than 0.990 for any sample?	___	[___]	X ___
MMB ACTION: If yes, reject (red-line) affected data.			
A.1.8.12.4 Was proper quantitation procedure followed correctly?	[___]	___	X ___
ACTION: If no, note exception under contract problem/non-compliance of data assessment narrative, or prepare a seperate list.			
A.1.8.12.5 Are MSA calculations within the linear range of the calibration curve generated at the beginning of the analytical run?	[___]	___	X ___
ACTION: If no, flag all affected data as estimated (J).			
A.1.8.13. Disolved Inorganics			
A.1.8.13.1 Were any analyses performed for dissolved as well as total analytes?	___	[X]	___
If yes, apply the following questions only if both dissolved and total constituents are above CRDL (For SAS parameters: above 5 * IDL).			
A.1.8.13.2 Is the concentration of any dissolved analyte greater than its total concentration by more than 10%?	___	[___]	X ___
A.1.8.13.3 Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?	___	[___]	X ___
CONTRACTOR ACTION: Prepare a list comparing differences between all dissolved and toal analytes. Compute the differences as a percent of the total analyte only when both above CRDL (5 * IDL for SAS parameters).			
MMB ACTION: If more than 10%, flag both dissolved and total values as estimated (J); if more than 50% reject (red-line) the data for both values.			

	YES	NO	N/A
A.1.8.14 Form I to IX			
A.1.8.14.1 Are all the Form I through Form IX labeled with:			
laboratory name?	[X]	___	___
case number?	[___]	___	X
WRA ~~EPA~~ sample No.?	[X]	___	___
lab. ID sample No.?	[X]	___	___
QC report No.?	[___]	___	X
date?	[___]	___	X
correct units?	[X]	___	___
matrix?	[X]	___	___

MMB ACTION: If no for any of above note under contract problem/non compliance of data assessment, narrative.

A.1.8.14.2 Do any computation/transcription errors exceed 10% of reported values on Forms I-IX for:

(NOTE: Check all forms against raw data.)

(a) all analytes analyzed by ICP?	___	[___]	X
(b) all analytes analyzed by GFAA?	___	[X]	___
(c) all analytes analyzed by AA Flame?	___	[X]	___
(d) Mercury?	___	[X]	___
(e) cyanide?	___	[X]	___

MMB ACTION: If yes, prepare Telephone Log, contact laboratory for corrected data and correct errors with red pencil and initial.

		YES	NO	N/A
A.1.8.15	Form I (Field Blank) - Do concentration of field blanks fall below two times IDL for all aqueous and soil parameters?	[X]	___	___
	If no, was field blank value already rejected due to other QC criteria?	[___]	___	X

MMB ACTION: If no, reject (red line) all aqueous and soil/sediment data (except field blank) that has a concentration less than five times the field blank value not flagged with a "U" (less than).

A.1.8.16 Form XI, XII, XIII (Quarterly Verification of Instrumental Parameters).

A.1.8.16.1 Is quarterly verification report present in MMB file for:

Instrument Detection Limits?	[___]	___	X
ICP Interelement Correction Factors?	[___]	___	X
ICP Linear Ranges?	[___]	___	X

MMB ACTION: If no, contact DPO of the lab.

A.1.8.16.2 Was any sample result higher than linear range of ICP by more than 10%?	___	[___]	X
Was any sample result higher than highest calibration standard for non-ICP parameters?	___	[X]	___

MMB ACTION: If yes for any of the above, flag result reported on Form I as estimated (J).

Title: Appendix A.2: Data Acceptability Narrative

Case# NA

Site Tops Markets, Inc. Niagara Falls Blvd.

Lab Advanced Environmental Services

Matrix: Soil X

Water X Trip Link Only

Other

A.2.1 Are all data of acceptable quality? Yes ____ No X

If no, list exceptions with reason(s) for rejection or qualification as estimated value (J).

Calcium values for B 13-1 Rejected.

All other calcium values flagged due to poor precision.

Zinc and Manganese values flagged due to poor spike recoveries.

A.2.1 (continuation)

A.2.2 Contract Problems/Non-compliance

MMR Reviewer: _____ Date: _____
Signature

Contractor Reviewer: _____ Date: _____
Signature

Verified by: Stephen S. Odyniec Date: 8-20-91

Exhibit 11

PCBs/Pesticides

Analysis Data Sheets

EPA SAMPLE NO.

PESTICIDE ORGANIC ANALYSIS DATA SHEET

Trip Blank

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) water Lab Sample ID: 5106

Sample wt/vol: 1000 (g/mL)ml Lab File ID: 7-15\018f0101

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. dec. Date Extracted: 7/1/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/16/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 10

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/l	Q
319-84-6	alpha -BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.5	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	0.1	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I SV-1

PESTICIDE ORGANIC ANALYSIS DATA SHEET

B-1-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5102

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7-15\020f0101

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 17 dec. Date Extracted: 7/1/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/16/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	8.0	U
319-85-7	beta-BHC	8.0	U
319-86-8	delta-BHC	8.0	U
58-89-9	gamma-BHC (Lindane)	8.0	U
76-44-8	Heptachlor	8.0	U
309-00-2	Aldrin	8.0	U
1024-57-3	Heptachlor epoxide	8.0	U
959-98-8	Endosulfan I	8.0	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	80	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	80	U
5103-74-2	gamma-Chlordane	80	U
8001-35-2	Toxaphene	800	U
12674-11-2	Aroclor-1016	160	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5098

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 7-15\024F0101

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 18 dec. Date Extracted: 7/1/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/16/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS ug/kg	Q
319-84-6	alpha -BHC	650	JS
319-85-7	beta-BHC	730	JS
319-86-8	delta-BHC	12	JS
58-89-9	gamma-BHC (Lindane)	8.1	U
76-44-8	Heptachlor	8.1	U
309-00-2	Aldrin	8.1	U
1024-57-3	Heptachlor epoxide	8.1	U
959-98-8	Endosulfan I	8.1	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	81	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	81	U
5103-74-2	gamma-Chlordane	81	U
8001-35-2	Toxaphene	810	U
12674-11-2	Aroclor-1016	160	U
111104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

EPA SAMPLE NO.

PESTICIDE ORGANIC ANALYSIS DATA SHEET

B-3-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5100

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 2-26\027F0301

Level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. 16 dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/28/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
319-84-6	alpha -BHC	7.9	U
319-85-7	beta-BHC	7.9	U
319-86-8	delta-BHC	7.9	U
58-89-9	gamma-BHC (Lindane)	7.9	U
76-44-8	Heptachlor	7.9	U
309-00-2	Aldrin	7.9	U
1024-57-3	Heptachlor epoxide	7.9	U
959-98-8	Endosulfan I	7.9	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	79	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	79	U
5103-74-2	gamma-Chlordane	79	U
8001-35-2	Toxaphene	790	U
12674-11-2	Aroclor-1016	160	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

FORM I SV-1

EPA SAMPLE NO.

PESTICIDE ORGANIC ANALYSIS DATA SHEET

B-4-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5085

Sample wt/vol: 30 (g/mL)g Lab File ID: 7-22\042f0101

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 14 dec. Date Extracted: 6/24/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/24/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	7.8	U
319-85-7	beta-BHC	7.8	U
319-86-8	delta-BHC	7.8	U
58-89-9	gamma-BHC (Lindane)	7.8	U
76-44-8	Heptachlor	7.8	U
309-00-2	Aldrin	7.8	U
1024-57-3	Heptachlor epoxide	7.8	U
959-98-8	Endosulfan I	7.8	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	78	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	78	U
5103-74-2	gamma-Chlordane	78	U
8001-35-2	Toxaphene	780	U
12674-11-2	Aroclor-1016	160	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

FORM I SV-1

PESTICIDE ORGANIC ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5083

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7-22\030f0101

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 9 dec. Date Extracted: 6/24/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/23/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	7.3	U
319-85-7	beta-BHC	7.3	U
319-86-8	delta-BHC	7.3	U
58-89-9	gamma-BHC (Lindane)	7.3	U
76-44-8	Heptachlor	7.3	U
309-00-2	Aldrin	7.3	U
1024-57-3	Heptachlor epoxide	7.3	U
959-98-8	Endosulfan I	7.3	U
60-57-1	Dieldrin	15	U
72-55-9	4,4'-DDE	15	U
72-20-8	Endrin	15	U
33213-65-9	Endosulfan II	15	U
72-54-8	4,4'-DDD	15	U
1031-07-8	Endosulfan sulfate	15	U
50-29-3	4,4'-DDT	15	U
72-43-5	Methoxychlor	73	U
53494-70-5	Endrin ketone	15	U
5103-71-9	alpha-Chlordane	73	U
5103-74-2	gamma-Chlordane	73	U
8001-35-2	Toxaphene	730	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	150	U
11141-16-5	Aroclor-1232	150	U
53469-21-9	Aroclor-1242	150	U
12672-29-6	Aroclor-1248	150	U
11097-69-1	Aroclor-1254	150	U
11096-82-5	Aroclor-1260	150	U

EPA SAMPLE NO.

PESTICIDE ORGANIC ANALYSIS DATA SHEET

B-6-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5104

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 7-26\026F0301

Level: (low/med) low Date Received: 06/19/91

% Moisture: not dec. 20 dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/28/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
319-84-6	alpha -BHC	2200	JS
319-85-7	beta-BHC	1300	JS
319-86-8	delta-BHC	8.3	U
58-89-9	gamma-BHC (Lindane)	8.3	U
76-44-8	Heptachlor	8.3	U
309-00-2	Aldrin	480	JS
1024-57-3	Heptachlor epoxide	8.3	U
959-98-8	Endosulfan I	8.3	U
60-57-1	Dieldrin	17	U
72-55-9	4,4'-DDE	17	U
72-20-8	Endrin	17	U
33213-65-9	Endosulfan II	17	U
72-54-8	4,4'-DDD	17	U
1031-07-8	Endosulfan sulfate	17	U
50-29-3	4,4'-DDT	17	U
72-43-5	Methoxychlor	83	U
53494-70-5	Endrin ketone	17	U
5103-71-9	alpha-Chlordane	83	U
5103-74-2	gamma-Chlordane	83	U
8001-35-2	Toxaphene	830	U
12674-11-2	Aroclor-1016	170	U
11104-28-2	Aroclor-1221	170	U
11141-16-5	Aroclor-1232	170	U
53469-21-9	Aroclor-1242	170	U
12672-29-6	Aroclor-1248	170	U
11097-69-1	Aroclor-1254	170	U
11096-82-5	Aroclor-1260	170	U

FORM I SV-1

0055

EPA SAMPLE NO.

PESTICIDES ORGANIC ANALYSIS DATA SHEET

B-7-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5075

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7-26\022f0301

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 11 dec. Date Extracted: 6/24/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/26/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	7.5	U
319-85-7	beta-BHC	7.5	U
319-86-8	delta-BHC	7.5	U
58-89-9	gamma-BHC (Lindane)	7.5	U
76-44-8	Heptachlor	7.5	U
309-00-2	Aldrin	7.5	U
1024-57-3	Heptachlor epoxide	7.5	U
959-98-8	Endosulfan I	7.5	U
60-57-1	Dieldrin	15	U
72-55-9	4,4'-DDE	15	U
72-20-8	Endrin	15	U
33213-65-9	Endosulfan II	15	U
72-54-8	4,4'-DDD	15	U
1031-07-8	Endosulfan sulfate	15	U
50-29-3	4,4'-DDT	15	U
72-43-5	Methoxychlor	75	U
53494-70-5	Endrin ketone	15	u
5103-71-9	alpha-Chlordane	75	U
5103-74-2	gamma-Chlordane	75	U
8001-35-2	Toxaphene	150	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	150	U
11141-16-5	Aroclor-1232	150	U
53469-21-9	Aroclor-1242	150	U
12672-29-6	Aroclor-1248	150	U
11097-69-1	Aroclor-1254	150	U
11096-82-5	Aroclor-1260	150	U

FORM I SV-1

01060

PESTICIDE ORGANIC ANALYSIS DATA SHEET

B-8-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5077

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 7-26\023F0301

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 16 dec. Date Extracted: 06/24/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 07/27/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
319-84-6	alpha -BHC	7.9	U
319-85-7	beta-BHC	520	JS
319-86-8	delta-BHC	7.9	U
58-89-9	gamma-BHC (Lindane)	7.9	U
76-44-8	Heptachlor	7.9	U
309-00-2	Aldrin	7.9	U
1024-57-3	Heptachlor epoxide	7.9	U
959-98-8	Endosulfan I	7.9	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	79	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	79	U
5103-74-2	gamma-Chlordane	79	U
8001-35-2	Toxaphene	790	U
12674-11-2	Aroclor-1016	160	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

EPA SAMPLE NO.

PESTICIDE ORGANIC ANALYSIS DATA SHEET

B-9-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5079

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 7-26\024F0301

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 23 dec. Date Extracted: 06/24/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 07/27/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
319-84-6	alpha -BHC	41	JS
319-85-7	beta-BHC	1300	JS
319-86-8	delta-BHC	3.4	JS
58-89-9	gamma-BHC (Lindane)	8.6	U
76-44-8	Heptachlor	8.6	U
309-00-2	Aldrin	8.6	U
1024-57-3	Heptachlor epoxide	8.6	U
959-98-8	Endosulfan I	8.6	U
60-57-1	Dieldrin	17	U
72-55-9	4,4'-DDE	17	U
72-20-8	Endrin	17	U
33213-65-9	Endosulfan II	17	U
72-54-8	4,4'-DDD	17	U
1031-07-8	Endosulfan sulfate	17	U
50-29-3	4,4'-DDT	17	U
72-43-5	Methoxychlor	86	U
53494-70-5	Endrin ketone	17	U
5103-71-9	alpha-Chlordane	86	U
5103-74-2	gamma-Chlordane	86	U
8001-35-2	Toxaphene	860	U
12674-11-2	Aroclor-1016	170	U
11104-28-2	Aroclor-1221	170	U
11141-16-5	Aroclor-1232	170	U
53469-21-9	Aroclor-1242	170	U
12672-29-6	Aroclor-1248	170	U
11097-69-1	Aroclor-1254	170	U
11096-82-5	Aroclor-1260	170	U

FORM I SV-1

EPA SAMPLE NO.

B-10-1

PESTICIDE ORGANIC ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5081

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 7-26\018F0301

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 5 dec. Date Extracted: 06/24/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 07/24/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
319-84-6	alpha -BHC	8000	JS
319-85-7	beta-BHC	4900	JS
319-86-8	delta-BHC	7.0	U
58-89-9	gamma-BHC (Lindane)	7.0	U
76-44-8	Heptachlor	7.0	U
309-00-2	Aldrin	7.0	U
1024-57-3	Heptachlor epoxide	7.0	U
959-98-8	Endosulfan I	7.0	U
60-57-1	Dieldrin	14	U
72-55-9	4,4'-DDE	14	U
72-20-8	Endrin	14	U
33213-65-9	Endosulfan II	14	U
72-54-8	4,4'-DDD	14	U
1031-07-8	Endosulfan sulfate	14	U
50-29-3	4,4'-DDT	14	U
72-43-5	Methoxychlor	70	U
53494-70-5	Endrin ketone	14	U
5103-71-9	alpha-Chlordane	70	U
5103-74-2	gamma-Chlordane	70	U
8001-35-2	Toxaphene	700	U
12674-11-2	Aroclor-1016	140	U
11104-28-2	Aroclor-1221	140	U
11141-16-5	Aroclor-1232	140	U
53469-21-9	Aroclor-1242	140	U
12672-29-6	Aroclor-1248	140	U
11097-69-1	Aroclor-1254	140	U
11096-82-5	Aroclor-1260	760	JS

01073

EPA SAMPLE NO.

PESTICIDES ORGANIC ANALYSIS DATA SHEET

B-11-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5007

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7-15\030f0101

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 26 dec. Date Extracted: 6/27/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/17/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	9.0	U
319-85-7	beta-BHC	9.0	U
319-86-8	delta-BHC	9.0	U
58-89-9	gamma-BHC (Lindane)	9.0	U
76-44-8	Heptachlor	9.0	U
309-00-2	Aldrin	9.0	U
1024-57-3	Heptachlor epoxide	9.0	U
959-98-8	Endosulfan I	9.0	U
60-57-1	Dieldrin	18	U
72-55-9	4,4'-DDE	18	U
72-20-8	Endrin	18	U
33213-65-9	Endosulfan sulfate	18	U
50-29-3	4,4'-DDT	18	U
72-43-5	Methoxychlor	90	U
53494-70-5	Endrin ketone	18	U
5103-71-9	alpha-Chlordane	90	U
5103-74-2	gamma-Chlordane	90	U
8001-35-2	Toxaphene	900	U
12674-11-2	Aroclor-1016	180	U
11104-28-2	Aroclor-1221	180	U
11141-16-5	Aroclor-1232	180	U
53469-21-9	Aroclor-1242	180	U
12672-29-6	Aroclor-1248	180	U
11097-69-1	Aroclor-1254	180	U
11096-82-5	Aroclor-1260	180	U

FORM I SV-1

01081

EPA SAMPLE NO.

PESTICIDE ORGANIC ANALYSIS DATA SHEET

B-12-1 0'-2'

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5069

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7-22\040f0101

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 14 dec. Date Extracted: 6/24/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/24/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	7.8	U
319-85-7	beta-BHC	7.8	U
319-86-8	delta-BHC	7.8	U
58-89-9	gamma-BHC (Lindane)	7.8	U
76-44-8	Heptachlor	7.8	U
309-00-2	Aldrin	7.8	U
1024-57-3	Heptachlor epoxide	7.8	U
959-98-8	Endosulfan I	7.8	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	78	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	78	U
5103-74-2	gamma-Chlordane	78	U
8001-35-2	Toxaphene	780	U
12674-11-2	Aroclor-1016	160	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

FORM I SV-1

EPA SAMPLE NO.

PESTICIDE ORGANIC ANALYSIS DATA SHEET

B-13-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5071

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 7-26\021F0301

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 22 dec. Date Extracted: 06/24/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 07/27/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
319-84-6	alpha -BHC	8.5	U
319-85-7	beta-BHC	8.5	U
319-86-8	delta-BHC	8.5	U
58-89-9	gamma-BHC (Lindane)	8.5	U
76-44-8	Heptachlor	8.5	U
309-00-2	Aldrin	8.5	U
1024-57-3	Heptachlor epoxide	8.5	U
959-98-8	Endosulfan I	8.5	U
60-57-1	Dieldrin	17	U
72-55-9	4,4'-DDE	17	U
72-20-8	Endrin	17	U
33213-65-9	Endosulfan II	17	U
72-54-8	4,4'-DDD	17	U
1031-07-8	Endosulfan sulfate	17	U
50-29-3	4,4'-DDT	17	U
72-43-5	Methoxychlor	85	U
53494-70-5	Endrin ketone	17	U
5103-71-9	alpha-Chlordane	85	U
5103-74-2	gamma-Chlordane	85	U
8001-35-2	Toxaphene	850	U
12674-11-2	Aroclor-1016	170	U
11104-28-2	Aroclor-1221	170	U
11141-16-5	Aroclor-1232	170	U
53469-21-9	Aroclor-1242	170	U
12672-29-6	Aroclor-1248	170	U
11097-69-1	Aroclor-1254	170	U
11096-82-5	Aroclor-1260	170	U

01096

PESTICIDE ORGANIC ANALYSIS DATA SHEET

B-14-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5073

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7-22\041f0101

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 13 dec. Date Extracted: 6/24/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/24/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	7.7	U
319-85-7	beta-BHC	7.7	U
319-86-8	delta-BHC	7.7	U
58-89-9	gamma-BHC (Lindane)	7.7	U
76-44-8	Heptachlor	7.7	U
309-00-2	Aldrin	7.7	U
1024-57-3	Heptachlor epoxide	7.7	U
959-98-8	Endosulfan I	7.7	U
60-57-1	Dieldrin	15	U
72-55-9	4,4'-DDE	15	U
72-20-8	Endrin	15	U
33213-65-9	Endosulfan II	15	U
72-54-8	4,4'-DDD	15	U
1031-07-8	Endosulfan sulfate	15	U
50-29-3	4,4'-DDT	15	U
72-43-5	Methoxychlor	77	U
53494-70-5	Endrin ketone	15	U
5103-71-9	alpha-Chlordane	77	U
5103-74-2	gamma-Chlordane	77	U
8001-35-2	Toxaphene	770	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	150	U
11141-16-5	Aroclor-1232	150	U
53469-21-9	Aroclor-1242	150	U
12672-29-6	Aroclor-1248	150	U
11097-69-1	Aroclor-1254	150	U
11096-82-5	Aroclor-1260	150	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

B-15-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 4995

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 7-22\035F0101

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 2 dec. Date Extracted: 6/27/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/23/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	6.8	U
319-85-7	beta-BHC	6.8	U
319-86-8	delta-BHC	6.8	U
58-89-9	gamma-BHC (Lindane)	6.8	U
76-44-8	Heptachlor	6.8	U
309-00-2	Aldrin	6.8	U
1024-57-3	Heptachlor epoxide	6.8	U
959-98-8	Endosulfan I	6.8	U
60-57-1	Dieldrin	14	U
72-55-9	4,4'-DDE	14	U
72-20-8	Endrin	14	U
33213-65-9	Endosulfan II	14	U
72-54-8	4,4'-DDD	14	U
1031-07-8	Endosulfan sulfate	14	U
50-29-3	4,4'-DDT	14	U
72-43-5	Methoxychlor	68	U
53494-70-5	Endrin ketone	14	U
5103-71-9	alpha-Chlordane	7.5	J
5103-74-2	gamma-Chlordane	68	U
8001-35-2	Toxaphene	680	U
12674-11-2	Aroclor-1016	75	U
11104-28-2	Aroclor-1221	75	U
11141-16-5	Aroclor-1232	75	U
53469-21-9	Aroclor-1242	75	U
12672-29-6	Aroclor-1248	75	U
11097-69-1	Aroclor-1254	75	U
11096-82-5	Aroclor-1260	75	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 4998

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 7-22\047F0101

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 25 dec. Date Extracted: 6/27/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	8.9	U
319-85-7	beta-BHC	8.9	U
319-86-8	delta-BHC	8.9	U
58-89-9	gamma-BHC (Lindane)	8.9	U
76-44-8	Heptachlor	8.9	U
309-00-2	Aldrin	8.9	U
1024-57-3	Heptachlor epoxide	8.9	U
959-98-8	Endosulfan I	8.9	U
60-57-1	Dieldrin	18	U
72-55-9	4,4'-DDE	18	U
72-20-8	Endrin	18	U
33213-65-9	Endosulfan II	18	U
72-54-8	4,4'-DDD	18	U
1031-07-8	Endosulfan sulfate	18	U
50-29-3	4,4'-DDT	18	U
72-43-5	Methoxychlor	89	U
53494-70-5	Endrin ketone	18	U
5103-71-9	alpha-Chlordane	106	JS
5103-74-2	gamma-Chlordane	89	U
8001-35-2	Toxaphene	890	U
12674-11-2	Aroclor-1016	180	U
11104-28-2	Aroclor-1221	180	U
11141-16-5	Aroclor-1232	180	U
53469-21-9	Aroclor-1242	180	U
12672-29-6	Aroclor-1248	180	U
11097-69-1	Aroclor-1254	180	U
11096-82-5	Aroclor-1260	180	U

0 1117

EPA SAMPLE NO.

PESTICIDE ORGANIC ANALYSIS DATA SHEET

B-17-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 4999

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 7-22\046F0101

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 14 dec. Date Extracted: 6/27/91

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 7/24/91

GPC Cleanup: (Y/N) N pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	7.8	U
319-85-7	beta-BHC	7.8	U
319-86-8	delta-BHC	7.8	U
58-89-9	gamma-BHC (Lindane)	7.8	U
76-44-8	Heptachlor	7.8	U
309-00-2	Aldrin	7.8	U
1024-57-3	Heptachlor epoxide	7.8	U
959-98-8	Endosulfan I	7.8	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	78	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	9.1	J
5103-74-2	gamma-Chlordane	78	U
8001-35-2	Toxaphene	780	U
12674-11-2	Aroclor-1016	160	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

01126

EPA SAMPLE NO.

PESTICIDE ORGANIC ANALYSIS DATA SHEET

B-18-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5005

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7-15\023f0101

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 13 dec. Date Extracted: 6/27/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/16/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	7.7	U
319-85-7	beta-BHC	7.7	U
319-86-8	delta-BHC	7.7	U
58-89-9	gamma-BHC (Lindane)	7.7	U
76-44-8	Heptachlor	7.7	U
309-00-2	Aldrin	7.7	U
1024-57-3	Heptachlor epoxide	7.7	U
959-98-8	Endosulfan I	7.7	U
60-57-1	Dieldrin	15	U
72-55-9	4,4'-DDE	15	U
72-20-8	Endrin	15	U
33213-65-9	Endosulfan II	15	U
72-54-8	4,4'-DDD	15	U
1031-07-8	Endosulfan sulfate	15	U
50-29-3	4,4'-DDT	15	U
72-43-5	Methoxychlor	77	U
53494-70-5	Endrin ketone	15	U
5103-71-9	alpha-Chlordane	77	U
5103-74-2	gamma-Chlordane	77	U
8001-35-2	Toxaphene	770	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	150	U
11141-16-5	Aroclor-1232	150	U
53469-21-9	Aroclor-1242	150	U
12672-29-6	Aroclor-1248	150	U
11097-69-1	Aroclor-1254	150	U
11096-82-5	Aroclor-1260	150	U

FORM I SV-1

EPA SAMPLE NO.

PESTICIDES ORGANIC ANALYSIS DATA SHEET

B-19-1

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5001

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7-15\021f0101

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 23 dec. Date Extracted: 6/27/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/16/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	8.6	U
319-85-7	beta-BHC	8.6	U
319-86-8	delta-BHC	8.6	U
58-89-9	gamma-BHC (Lindane)	8.6	U
76-44-8	Heptachlor	8.6	U
309-00-2	Aldrin	8.6	U
1024-57-3	Heptachlor epoxide	8.6	U
959-98-8	Endosulfan I	8.6	U
60-57-1	Dieldrin	17	U
72-55-9	4,4'-DDE	17	U
72-20-8	Endrin	17	U
33213-65-9	Endosulfan II	17	U
72-54-8	4,4'-DDD	17	U
1031-07-8	Endosulfan sulfate	17	U
50-29-3	4,4'-DDT	17	U
72-43-5	Methoxychlor	86	U
53494-70-5	Endrin ketone	17	U
5103-71-9	alpha-Chlordane	86	U
5103-74-2	gamma-Chlordane	86	U
8001-35-2	Toxaphene	860	U
12674-11-2	Aroclor-1016	170	U
11104-28-2	Aroclor-1221	170	U
11141-16-5	Aroclor-1232	170	U
53469-21-9	Aroclor-1242	170	U
12672-29-6	Aroclor-1248	170	U
11097-69-1	Aroclor-1254	170	U
11096-82-5	Aroclor-1260	170	U

FORM I SV-1

PESTICIDE ORGANIC ANALYSIS DATA SHEET

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5003

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7-15\022f0101

Level: (low/med) low Date Received: 6/17/91

% Moisture: not dec. 12 dec. Date Extracted: 6/27/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/16/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	7.6	U
319-85-7	beta-BHC	7.6	U
319-86-8	delta-BHC	7.6	U
58-89-9	gamma-BHC (Lindane)	7.6	U
76-44-8	Heptachlor	7.6	U
309-00-2	Aldrin	7.6	U
1024-57-3	Heptachlor epoxide	7.6	U
959-98-8	Endosulfan I	7.6	U
60-57-1	Dieldrin	15	U
72-55-9	4,4'-DDE	15	U
72-20-8	Endrin	15	U
33213-65-9	Endosulfan II	15	U
72-54-8	4,4'-DDD	15	U
1031-07-8	Endosulfan sulfate	15	U
50-29-3	4,4'-DDT	15	U
72-43-5	Methoxychlor	76	U
53494-70-5	Endrin ketone	15	U
5103-71-9	alpha-Chlordane	76	U
5103-74-2	gamma-Chlordane	76	U
8001-35-2	Toxaphene	760	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	150	U
11141-16-5	Aroclor-1232	150	U
53469-21-9	Aroclor-1242	150	U
12672-29-6	Aroclor-1248	150	U
11097-69-1	Aroclor-1254	150	U
11096-82-5	Aroclor-1260	150	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

B-2-1ms

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5098ms

Sample wt/vol: 30.1 (g/mL)g Lab File ID: 7-15\028f0101

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 18 dec. Date Extracted: 7/1/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/17/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	290	
319-85-7	beta-BHC	400	
319-86-8	delta-BHC	30	
58-89-9	gamma-BHC (Lindane)	42	
76-44-8	Heptachlor	34	
309-00-2	Aldrin	42	
1024-57-3	Heptachlor epoxide	8.1	U
959-98-8	Endosulfan I	8.1	U
60-57-1	Dieldrin	81	
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	110	
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	85	
72-43-5	Methoxychlor	81	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	81	U
5103-74-2	gamma-Chlordane	81	U
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	160	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

01146

EPA SAMPLE NO.

PESTICIDE ORGANIC ANALYSIS DATA SHEET

B-2-1 msd

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5098 msd

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7-15\029f0101

Level: (low/med) low Date Received: 6/19/91

% Moisture: not dec. 18 dec. Date Extracted: 7/1/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/17/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	8.1	U
319-85-7	beta-BHC	8.1	U
319-86-8	delta-BHC	8.1	U
58-89-9	gamma-BHC (Lindane)	27	
76-44-8	Heptachlor	25	
309-00-2	Aldrin	33	
1024-57-3	Heptachlor epoxide	8.1	U
959-98-8	Endosulfan I	8.1	U
60-57-1	Dieldrin	74	
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	75	
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	79	
72-43-5	Methoxychlor	81	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	81	U
5103-74-2	gamma-Chlordane	81	U
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	160	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

FORM I SV-1

PESTICIDES ORGANIC ANALYSIS DATA SHEET

B-13-1 ms

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5071

Sample wt/vol: 30.0 (g/mL)g Lab File ID: 7-22\044f0101

Level: (low/med) low Date Received: 6/18/91

% Moisture: not dec. 22 dec. Date Extracted: 6/24/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 7/27/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 2000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	430	U
319-85-7	beta-BHC	430	U
319-86-8	delta-BHC	430	U
58-89-9	gamma-BHC (Lindane)	3400	
76-44-8	Heptachlor	2900	
309-00-2	Aldrin	3700	
1024-57-3	Heptachlor epoxide	430	U
959-98-8	Endosulfan I	430	U
60-57-1	Dieldrin	8300	
72-55-9	4,4'-DDE	430	U
72-20-8	Endrin	9100	
33213-65-9	Endosulfan II	850	U
72-54-8	4,4'-DDD	850	U
1031-07-8	Endosulfan sulfate	850	U
50-29-3	4,4'-DDT	7700	
72-43-5	Methoxychlor	4300	U
53494-70-5	Endrin ketone	850	U
5103-71-9	alpha-Chlordane	4300	U
5103-74-2	gamma-Chlordane	4300	U
8001-35-2	Toxaphene	43000	U
12674-11-2	Aroclor-1016	8500	U
11104-28-2	Aroclor-1221	8500	U
11141-16-5	Aroclor-1232	8500	U
53469-21-9	Aroclor-1242	8500	U
12672-29-6	Aroclor-1248	8500	U
11097-69-1	Aroclor-1254	8500	U
11096-82-5	Aroclor-1260	8500	U

FORM I SV-1

EPA SAMPLE NO.

PESTICIDES ORGANIC ANALYSIS DATA SHEET

B-13-1 msd

Name: Advanced Environmental Services, Inc. Contract:

Lab Code: FIL Case No.: SAS No.: SDG No.:

Matrix: (soil/water) soil Lab Sample ID: 5071

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 7-22\045f0101

Level: (low/med) low Date Received: 06/18/91

% Moisture: not dec. 22 dec. Date Extracted: 06/24/91

Extraction: (SepF/Cont/Sonc) sonc Date Analyzed: 07/27/91

GPC Cleanup: (Y/N) n pH Dilution Factor: 2000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	alpha -BHC	430	U
319-85-7	beta-BHC	430	U
319-86-8	delta-BHC	430	U
58-89-9	gamma-BHC (Lindane)	3700	
76-44-8	Heptachlor	3120	
309-00-2	Aldrin	3920	
1024-57-3	Heptachlor epoxide	430	U
959-98-8	Endosulfan I	430	U
60-57-1	Dieldrin	8820	
72-55-9	4,4'-DDE	430	U
72-20-8	Endrin	9540	
33213-65-9	Endosulfan II	850	U
72-54-8	4,4'-DDD	850	U
1031-07-8	Endosulfan sulfate	850	U
50-29-3	4,4'-DDT	8760	
72-43-5	Methoxychlor	4300	U
53494-70-5	Endrin ketone	850	U
5103-71-9	alpha-Chlordane	4300	U
5103-74-2	gamma-Chlordane	4300	U
8001-35-2	Toxaphene	43000	U
12674-11-2	Aroclor-1016	8500	U
11104-28-2	Aroclor-1221	8500	U
11141-16-5	Aroclor-1232	8500	U
53469-21-9	Aroclor-1242	8500	U
12672-29-6	Aroclor-1248	8500	U
11097-69-1	Aroclor-1254	8500	U
11096-82-5	Aroclor-1260	8500	U

FORM I SV-1