PRELIMINARY REPORT FOR INTERIM REMEDIAL MEASURES (IRM) AND SITE INVESTIGATION ACTIVITIES AT THE SITE LOCATED AT 425 MERRICK AVENUE, WESTBURY, NEW YORK

October 23, 1997

Prepared for

425 Merrick Avenue
PRP Group

Prepared by

Geraghty & Miller, Inc.
88 Duryea Road
Melville, New York 11747
(516) 249-7600

PRELIMINARY REPORT FOR INTERIM REMEDIAL MEASURES (IRM) AND SITE INVESTIGATION ACTIVITIES AT THE SITE LOCATED AT 425 MERRICK AVENUE, WESTBURY, NEW YORK

October 23, 1997

Gregory Ernst
Project Scientist

Carlo San Giovanni
Principal Scientist/Project Manager

Thomas Lobasso
Project Director/Vice President

TABLE OF CONTENTS

TABLES

TABLE OF CONTENTS (continued)

FIGURES

APPENDIX

PRELIMINARY REPORT FOR INTERIM REMEDIAL MEASURE AN SITE INVESTIGATION ACTIVITIES AT THE SITE LOCATED AT 425 MERRICK AVENUE, WESTBURY, NEW YORK

INTRODUCTION

Geraghty & Miller has completed the surface and subsurface soil investigation, soil excavation and building inspections as outlined in the Interim Remedial Measure (IRM) and Site Investigation Work Plan for the Site Located at 425 Merrick Avenue in Westbury, New York (Geraghty & Miller 1997). This report provides a summary of the completed field activities and identifies the proposed location of groundwater monitoring wells at the site. Also, three additional work items have been identified, based on the results of the work performed at the site to date. The three additional work items are 1) continuation of IRM excavations to remediate PCBs, 2) further housekeeping and inspection activities associated with the interior of site buildings, and 3) delineation of mercury impacts in soils samples B-17 and B-23. The methods and protocols for the additional work items will be presented in this report.

IRMs

From July 25, 1997 to July 30, 1997, IRM excavations to remove PCB-impacted soils were conducted at the former Test Pit VII (TP-VII), Grease Pit 1 (GP-1), Grease Pit 2 (GP-2), and Storm Drain 3 (SD-3). Approximately 110 cubic yards of soil were removed during the excavation at TP-VII which measured 15 wide by 20 long by three to six feet deep. GP-1 was excavated to five feet wide by five long by 12 feet deep resulting in removal of approximately 10 cubic yards of soil. The IRM excavation at GP-2 involved the removal of approximately 10 cubic yards of soil from an excavation

measuring six feet wide by six feet long by eight feet deep. Approximately one cubic yard of soil was removed from within SD-3 which was measured to be approximately three feet square. A total of approximately 130 cubic yards of soil was removed during IRM excavations.

The limits of the IRM excavations were determined using D-Tech immunoassay field test kits to indicate when the clean up standard of 10 parts per million (ppm) had been met. At which point, end point samples were collected from the excavations for laboratory confirmation of the field test kit results. Five composite samples, the north, south, east, and west side walls and bottom of the excavation, were collected from the excavation at TP-VII. Since additional soil had been removed from the bottom of GP-1 based on the field test kit results, two composite samples were collected from the excavation at GP-1. One composite sample was collected from all four side walls of GP-1 and one composite sample was collected from the bottom of GP-1. One composite sample was collected from the sidewalls and bottom of the GP-2 excavation. One grab sample was collected from the bottom of SD-3.

SOIL INVESTIGATION

Site-wide soil sampling was conducted at the locations shown on Figure 1-3 of the IRM and Site Investigation Work Plan. Prior to sample collection, selected subsurface structures, such as the septic fields and a dry well were excavated to confirm the actual location of those structures. As a result of those excavations, the northern septic field was found to be north of the shock tunnel and the dry well to the south of the Main Building was located further west, adjacent to the TP-VII IRM excavation. Also, two additional subsurface structures were identified. A cesspool, connected to the dry well, was found between the dry well and the TP-VII IRM excavation, and a catch basin was identified at the southwestern end of the shock tunnel. Soil and water samples were collected from the cesspool and a soil sample was collected from the additional catch basin. These revised sample locations and their designations are shown on Figure 1.

As outlined in the work plan, sample depth and analytical parameters varied throughout the site based on the characteristics of each individual Area of Concern (AOC). Former test pit locations which had not been analyzed were sampled at depths between zero to two feet below grade and submitted for analysis of PCBs and polynuclear aromatic hydrocarbons (PAHs). Samples collected to address locations of high concentrations of total petroleum hydrocarbons (TPH) concentrations during previous investigations were sampled from the same depth as previously sampled and analyzed for petroleum related volatile organic compounds (VOCs) and PAHs. Soil samples in association with subsurface structures and general site-wide conditions (B-12 and B-13) were collected from the depth of the highest field screening result for VOCs using a photoionization detector (PID) and analyzed for PCBs and PAHs. Samples collected at the former locations of transformers were sampled from zero to two feet below grade and submitted for analysis of PCBs. A summary of soil sample details is provided in Table 1.

Sample locations B-16, B-17, B-21, B-23, and the southern wall of the TP-VII excavation (TP-VII S) were also analyzed for the parameters on the Target Compound List (TCL) of organic constituents and Target Analyte List (TAL) of inorganic constituents (heavy metals). These locations were selected to assess constituent concentrations across the site in the shallow (0 to 2 foot interval) soils.

RESULTS

The laboratory reports for soil samples analyzed at the 425 Merrick Avenue Site are provided in Appendix A. Laboratory analysis of soil samples detected concentrations of PCBs in three locations above the 10 ppm clean up standard. Total PCBs were detected at 290 ppm in B-21, at 98 ppm in TP-VII S, and at 211 ppm in the bottom of the GP-1 excavation (Sample GP-1 BTM). PCB results are provided in Table 2. These concentrations of PCBs will be addressed below (Continued IRM Activities).

Concentrations of PAHs above NYSDEC Recommended Cleanup Objectives (RCOs) were detected in ten samples, B-12, B-13, B-16, B-17, B-23, B-24, B-27, B-28, and TP-VII BTM. Benzo(a)pyrene was detected above the RCO of 61 micrograms per kilogram (ug/kg) in nine samples ranging from 84 ug/kg in B-17 to 1,100 ug/kg in B-16. Benzo(b)fluoranthene and benzo(k)fluoranthene were both detected above the RCOs of 224 ug/kg (individually) in five samples ranging from 300 ug/kg and 230 ug/kg, respectively, in B-28 to 1,300 ug/kg and 1,100 ug/kg, respectively, in B-16. Benzo(a)anthracene and chrysene were both detected above their respective RCOs of 224 ug/kg and 400 ug/kg in three samples; B-12, B-13, and B-16. Benzo(a)anthracene was detected at 590 ug/kg in B-12, at 860 ug/kg in B-13, and at 1,200 ug/kg in B-16. Chrysene was detected at 620 ug/kg in B-12, at 790 ug/kg in B-13, and at 1,400 ug/kg in B-16. Dibenzo(a,h)anthracene was detected above the RCO of 14 ug/kg in B-13 at 50 ug/kg. PAH analytical results are provided in Table 3 and Table 6. The concentrations of PAHs observed at the site will be fully addressed in the final IRM and Site Investigation Report; no further action should be required or recommended.

Petroleum related VOCs were not detected above NYSDEC RCOs in soil samples collected at the site. Analytical results for the petroleum related VOCs are provided in Table 4. In addition, analysis of TCL VOCs detected no concentrations in exceedance of RCOs (see Table 5). The analysis of VOCs during further soil investigations at the site should not be required or recommended.

Except for the PAHs discussed above, analytical results for TCL semivolatile organic compounds (SVOCs) detected only pentachlorophenol at 1,100 ug/kg in TP-VIIS above the RCO of 1,000 ug/kg. TCL SVOCs analytical results are provided in Table 6. Since this concentration of pentachlorophenol will be removed during the continued IRM activities at the site, TCL SVOCs are not anticipated to be of further concern and will not be included in future soil investigations at the site. Analysis of SVOCs will be limited to PAHs only.

TAL metals analytical results detected six metals, barium, cadmium, chromium, copper, mercury, and nickel, in exceedance of the NYSDEC RCOs in Sample TP-VII S. Mercury was detected above the RCO of 0.1 mg/kg in two additional samples, B-17 at 3.7 mg/kg and B-23 at 1.1 mg/kg. Copper was detected in B-17 at 78.8 mg/kg, and chromium was detected in B-23 at 11.8 mg/kg in exceedance of RCOs. Concentrations of the TAL metals are provided in Table 7. Additional excavation in the area of Sample TP-VII S is anticipated (see Continued IRM Activities below) and will also remove soils impacted by TAL metals. TAL metals will be re-analyzed following the completion of the continued IRM excavation at this location. Mercury, copper, and chromium concentrations observed at locations B-17 and B-23 will be delineated as outlined below (Delineation of Metals in Soil).

While beryllium, iron, and zinc were detected above the published RCOs for those analytes, the concentrations were generally consistent through out the site and are considered background concentrations. Additionally, these analyte concentrations are within background levels for the eastern United States as provided in the NYSDEC Memorandum Division Technical and Administrative Guidance Memorandum for the Determination of Soil Cleanup Objective and Cleanup Levels (Proposed April 1995). Therefore these constituents will not be addressed during further delineation of metals concentrations in soil at the site.

MONITORING WELL INSTALLATION

Based on the results of soil remediation and investigation analytical results, three shallow groundwater wells will be installed in the following locations. One upgradient well will be installed at the northern boundary of the site to assess groundwater quality entering the site. A second well will be installed south of GP-1 to assess potential groundwater impacts from PCBs concentrations observed in the bottom of GP-1. The third well will be installed in the location of the TP-VII IRM excavation to assess potential groundwater impacts along the western boundary of the site. The well locations

are also selected to accurately determine groundwater flow and gradient under the site. The location of the proposed monitoring wells is presented on Figure 2.

The depth to groundwater encountered during the soil investigation was observed to be approximately 25 feet below land surface. Therefore, the depth of the proposed groundwater monitoring wells will be installed to a total depth of approximately 35 feet below land surface. The wells will be constructed to the specifications provided in the Work Plan.

ADDITIONAL WORK ITEMS

Based on the analytical result from the IRM and site investigation activities to date, and the observations by Katey Murphy of the NYSDEC, the following additional work items have been identified for the site. All additional field activities outlined below will be conducted under the procedures and protocols provided in the Work Plan.

Continued IRM Activities

Interim Remedial Measures (IRMs) conducted at the site have been successful in reducing polychlorinated biphenol (PCB) impacts at the site. However, end point samples collected from IRM excavations indicate concentrations of PCBs persist in two locations, the south wall of the former Test Pit VII (TP-VII) excavation and the bottom of the Grease Pit 1 (GP-1) excavation. In addition, concentrations of PCBs were detected above clean up standards in the surface soil sample B-21 in the location of former Test Pit VI.

As a continuation of the IRM activities, addition soil will be removed from these areas to complete the remediation of PCBs at the site. Field testing using the D-Tech immunoassay test kits will be conducted on samples from the sidewalls and bottoms to determine the limits of the excavations. Samples will also be submitted to the laboratory

(IEA, Inc.) for confirmatory analysis of PCBs. One composite sample will be collected from the south wall of the TP-VII excavation. Two composite samples, one from the side walls and one from the bottom, will be collected from the excavation surrounding B-21. Prior to continued excavation from the bottom of GP-1, a soil boring will be drilled using a Geoprobe hydraulic drive point sampler to determine the depth to which PCBs concentrations exist above the RCOs. Continuous two-foot interval soil samples will be collected starting from the bottom of the previous IRM excavation (approximately 12 feet below grade), and continue until field testing results indicate PCB concentrations are below the RCOs in at least two consecutive sample intervals or until the water table is encountered, which ever is first. Two confirmatory samples from the bottom two sample intervals of the boring will be submitted for laboratory analysis of PCBs. Following receipt of the soil boring analytical results, the IRM excavation in GP-1 will be continued, if warranted, to the depth indicated by the soil boring sampling. A second end point sample will then be submitted for laboratory analysis of PCBs.

Additional Housekeeping Activities

Based on observations made by Katey Murphy of the Hazardous materials division of the NYSDEC, additional housekeeping tasks were identified within the Main Building and Building II. The additional tasks include the clean up of the Main Building basement, the disposal of capacitors, batteries, paint cans, empty drums, and containers from within the Main Building, and the inspection of the crawl space beneath Building II. The clean up will involve the further dewatering and clearing of debris and equipment on the basement floor which will allow better access to complete inspection of the area. All containers of potentially hazardous materials, including capacitors, batteries, paint cans, and various drums and cans, found in the Main Building (generally observed in the basement and first floor) will be removed and properly disposed of at an approved facility. Copies of manifests and bills of lading from the disposal of containers will be provided to the NYSDEC. The crawl space beneath Building II will be inspected to determine if any additional potentially hazardous materials are present and to determine

the drainage discharge of the slop sink identified in Building II. The crawl space will be inspected by cutting holes in the floor of the building and lowering a video camera into the void. A video recording will be made of all structures in the crawl space. A copy of the video recording will be provided to the NYSDEC for review.

Delineation of Metals in Soil

Metals, including mercury, copper, and chromium, concentrations above NYSDEC RCOs were detected in three locations during the initial soil sampling program. One location, Sample TP-VII S, will be excavated as part of the continued IRM activities at the site, and mercury will be resampled in conjunction with the completion of the IRM in this location. Metals concentrations detected at two locations B-17 and B-23 at between zero to two feet below grade will be horizontally and vertically delineated. Since the initial Samples B-17 and B-23 were located within stained surface soil, metals concentrations are likely attributable to the material which created the staining. Therefore the collection of soil samples for the delineation of metals impacts will be placed beneath and around the perimeter of the stained areas surrounding B-17 and B-23. The vertical distribution of mercury and copper will be determined by collecting an additional sample at B-17 and mercury and chromium will be sampled at B-23 from beneath the visibly stained soil. Four additional surface soil samples will be collected around both B-17 and B-23 from the perimeter of stained soil areas (approximately 20 feet radii) in each compass direction. Soil samples will be submitted for analysis of mercury using USEPA Method 7471 and of copper (B-17) and chromium (B-23) using USEPA Method 6010.

In keeping with the proposed project schedule, Geraghty & Miller anticipates the initiation of the field activities outlined herein by the end of October 1997.

Table 1. Soil Sample Details Summary for IRM and Site Investigation at the Site Located at 425 Merrick Avenue, Westbury, New York.

Sample Designation	Date Collected	Area of Concern	Depth (in feet below grade)	Parameter List	Analytical Method
IRM Samples					
TP-VII N	7/29/97	Test Pit VII, Transformers	3	PCBs, VOCs, PAHs	8081, 8021, 8270
TP-VII E	7/30/97	Test Pit VII	3	PCBs, VOCs	8081, 8021
TP-VII S	7/30/97	Test Pit VII	3	PCBs, VOCs, PAHs	8081, 8021, 8270
TP-VII S	7/30/97	Test Pit VII	3	TAL/TCL List	91-1, 91-2, 91-3, 91-4
TP-VII W	7/29/97	Test Pit VII	3	PCBs, VOCs, PAHs	8081, 8021, 8270
TP-VII BTM	7/29/97	Test Pit VII	4 to 6	PCBs, VOCs, PAHs	8081, 8021, 8270
GP-1	7/29/97	Grease Pit 1	5 to 12	PCBs, VOCs, PAHs	8081, 8021, 8270
GP-1 BTM	7/29/97	Grease Pit 1	5	PCBs, VOCs, PAHs	8081, 8021, 8270
GP-1 SIDE	7/29/97	Grease Pit 1	12	PCBs, VOCs, PAHs	8081, 8021, 8270
GP-2	7/25/97	Grease Pit 2	4 to 8	PCBs, VOCs, PAHs	8081, 8021, 8270
B-24	7/30/97	Storm Drain 3	3 to 5	PCBs, VOCs, PAHs	8081, 8021, 8270
Site Investigation					
B-2	7/31/97	High TPH	10 to 12	VOCs, PAHs	8021, 8270
B-12	7/31/97	Data Gap	0 to 2	PCBs, PAHs	8081, 8270

Table 1. Soil Sample Details Summary for IRM and Site Investigation at the Site Located at 425 Merrick Avenue, Westbury, New York.

Sample Designation	Date Collected	Area of Concern	Depth (in feet below grade)	Parameter List	Analytical Method
Site Investigation (cont.)					
B-13	7/31/97	Data Gap	0 to 2	PCBs, PAHs	8081, 8270
B-14	7/30/97	Stained Soil (TP-II)	0 to 2	PCBs	8081
B-15	7/30/97	Stained Soil (TP-III)	0 to 2	PCBs	8081
B-16	7/31/97	Stained Soil (TP-IV), Transformers	0 to 2	PCBs	8081
B-16	7/31/97	Stained Soil (TP-IV), Transformers	0 to 2	TAL/TCL List	91-1, 91-2, 91-3, 91-4
B-17	7/31/97	Stained Soil (TP-VIII)	0 to 2	PCBs	8081
B-17	7/31/97	Stained Soil (TP-VIII)	0 to 2	TAL/TCL List	91-1, 91-2, 91-3, 91-4
B-18	7/30/97	Septic Field	5 to 7	PCBs, PAHs	8081, 8270
B-19	7/30/97	Septic Field	4 to 6	PCBs, PAHs	8081, 8270
B-20	7/30/97	Stained Soil (TP-V)	0 to 2	PCBs	8081
B-21	7/31/97	Stained Soil (TP-VI)	2 to 4	PCBs	8081
B-21	7/31/97	Stained Soil (TP-VI)	0 to 2	TAL/TCL List	91-1, 91-2, 91-3, 91-4
B-22	7/31/97	Dry Well	9 to 10	PCBs, PAHs	8081, 8270
B-23	7/31/97	Stained Soil (TP-IX)	0 to 2	PCBs	8081

Table 1. Soil Sample Details Summary for IRM and Site Investigation at the Site Located at 425 Merrick Avenue, Westbury, New York.

Sample Designation	Date Collected	Area of Concern	Depth (in feet below grade)	Parameter List	Analytical Method
Site Investigation (cont.)					
B-23	7/31/97	Stained Soil (TP-IX)	0 to 2	TAL/TCL List	91-1, 91-2, 91-3, 91-4
B-25	8/1/97	Storm Drain 4	0 to 2	PCBs, PAHs	8081, 8270
B-26	8/1/97	Storm Drain 5	5 to 7	PCBs, PAHs	8081, 8270
B-27	7/30/97	Stained Soil (TP-I), High TPH	0 to 2	VOCs, PAHs	8021, 8270
B-28	7/30/97	Storm Drain 2, High TPH	10 to 12	VOCs, PAHs	8021, 8270
B-29	8/1/97	Storm Drain 1, High TPH	2 to 4	PCBs, VOCs	8081, 8021
B-30	7/30/97	Transformers	0 to 2	PCBs	8081
B-31	8/1/97	Catch Basin	10 to 12	PCBs, PAHs	8081, 8270
Cesspool Soil	7/30/97	Cesspool for Dry Well	8	PCBs, VOCs, PAHs	8081, 8021, 8270
Cesspool Liquid	7/30/97	Cesspool for Dry Well	8	PCBs, VOCs, PAHs	8081, 8021, 8270

Table 2. Concentrations of Polychlorinated Biphenols in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	Sample Id: / Sample Date: / Units:	B-12 7/31/97 ug/kg	B-13 7/31/97 ug/kg	B-14 7/30/97 ug/kg	B-15 7/30/97 ug/kg	B-16 7/31/97 ug/kg	B-17 7/31/97 ug/kg	B-18 7/30/97 ug/kg	B-19 7/30/97 ug/kg	B-20 7/30/97 ug/kg	B-21 7/31/97 ug/kg
	NYSDEC Recommended Soil Cleanup Objectives for Sub-Surface* (in ug/kg)										
Aroclor-1016	10000	<1940	<180	<37	<183	<35	<36	<38	<36	<37	<34980
Aroclor-1221	10000	<3940	<365	<74	<373	<70	<72	<77	<72	<75	<71020
Aroclor-1232	10000	<1940	<180	<37	<183	<35	<36	<38	<36	<37	<34980
Arcolor-1242	10000	<1940	<180	<37	<183	<35	<36	<38	<36	<37	<34980
Aroclor-1248	10000	<1940	<180	<37	<183	8.8 J	<36	<38	<36	<37	170,000
Aroclor-1254	10000	2100	280	140	240	52	230	<38	20 J	190	120,000
Aroclor-1260	10000	790 J	160 J	68	90 J	<35	<36	<38	<36	71	<34980

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
J	Estimated concentration.
B	Parameter also detected in Method Blank.
R	Unusable value.
NYSDEC	New York State Department of Environmental Conservation.
*	NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 2. Concentrations of Polychlorinated Biphenols in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	Sample Id: / Sample Date: / Units:	NYSDEC Recommended Soil Cleanup Objectives for Sub-Surface* (in ug/kg)	B-22 7/31/97 ug/kg	B-23 7/31/97 ug/kg	B-24 7/30/97 ug/kg	B-25 8/1/97 ug/kg	B-26 8/1/97 ug/kg	B-29 8/1/97 ug/kg	B-30 7/30/97 ug/kg	B-31 8/1/97 ug/kg	TPVII BTM 7/29/97 ug/kg
Aroclor-1016		10000	<406	<178	<1835	<36	<35	<3830	<370	<37	<380
Aroclor-1221		10000	<825	<360	<3725	<72	<70	<7770	<750	<75	<780
Aroclor-1232		10000	<406	<178	<1835	<36	<35	<3830	<370	<37	<380
Arcolor-1242		10000	<406	<178	<1835	<36	<35	<3830	<370	<37	<380
Aroclor-1248		10000	390 J	<178	2600	24 J	<35	3500 J	<370	<37	920 B
Aroclor-1254		10000	980	360	6100	41	<35	5700	940	25 J	1200
Aroclor-1260		10000	280 J	<178	<1835	<36	<35	<3830	<370	<37	<380

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
J	Estimated concentration.
B	Parameter also detected in Method Blank.
R	Unusable value.
NYSDEC	New York State Department of Environmental Conservation.
*	NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 2. Concentrations of Polychlorinated Biphenols in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	Sample Id: / Sample Date: / Units:	NYSDEC Recommended Soil Cleanup Objectives for Sub-Surface* (in ug/kg)	TPVII E 7/30/97 ug/kg	TPVII N 7/29/97 ug/kg	TPVII S 7/30/97 ug/kg	TPVII W 7/29/97 ug/kg	Cesspool Liquid 7/30/97 ug/L	Cesspool Soil 7/30/97 ug/kg	GP-1 (BTM) 7/29/97 ug/kg	GP-1 (SIDE) 7/29/97 ug/kg	GP-2 7/25/97 ug/kg
Aroclor-1016		10000	<693	<40	<18350	<36	R	<2950	<36960	<716	<36
Aroclor-1221		10000	<1407	<80	<37250	<74	R	<5980	<75040	<1450	<73
Aroclor-1232		10000	<693	<40	<18350	<36	R	<2950	<36960	<716	<36
Arcolor-1242		10000	<693	<40	<18350	<36	R	<2950	<36960	<716	<36
Aroclor-1248		10000	<693	<40	50000	<36	0.88 J	2400 J	120000 B	2400 B	29 J
Aroclor-1254		10000	1300	65	48000	7.7 J	1.4	3900	91000	3100	140
Aroclor-1260		10000	<693	36 J	<18350	10 J	R	<2950	<36960	<716	<36

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
J	Estimated concentration.
B	Parameter also detected in Method Blank.
R	Unusable value.
NYSDEC	New York State Department of Environmental Conservation.
*	NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 2. Concentrations of Polychlorinated Biphenols in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	Sample Id: / Sample Date: / Units:	FB 072597 7/25/97 ug/L	FB 072997 7/29/97 ug/L	FB 073097 7/30/97 ug/L	FB 073197 7/31/97 ug/L	FB 080197 8/1/97 ug/L
	NYSDEC Recommended Soil Cleanup Objectives for Sub-Surface* (in ug/kg)					
Aroclor-1016	10000	<1.0	<1.0	<1.0	<1.0	<1.0
Aroclor-1221	10000	<2.0	<2.0	<2.0	<2.0	<2.0
Aroclor-1232	10000	<1.0	<1.0	<1.0	<1.0	<1.0
Arcolor-1242	10000	<1.0	<1.0	<1.0	<1.0	<1.0
Aroclor-1248	10000	<1.0	<1.0	<1.0	0.12 J	<1.0
Aroclor-1254	10000	<1.0	<1.0	0.11 J	0.082 J	<1.0
Aroclor-1260	10000	<1.0	<1.0	<1.0	<1.0	<1.0

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
J	Estimated concentration.
B	Parameter also detected in Method Blank.
R	Unusable value.
NYSDEC	New York State Department of Environmental Conservation.
*	NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 3. Concentrations of Polynuclear Aromatic Hydrocarbons in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameter:	Sample Id: / Sample Date: / Units:	NYSDEC Recommended Soil Cleanup Objectives* (in ug/kg)	B-2 7/31/97 ug/kg	B-12 7/31/97 ug/kg	B-13 7/31/97 ug/kg	B-18 7/30/97 ug/kg	B-19 7/30/97 ug/kg	B-22 7/31/97 ug/kg	B-24 7/30/97 ug/kg	B-25 8/1/97 ug/kg	B-26 8/1/97 ug/kg	B-27 7/30/97 ug/kg
Naphthalene		13000	<366	71 J	50 J	<376	<356	52 J	40 J	<356	<350	<363 J
2-Methylnaphthalene		364000	<366	<389 J	<360 J	<376	<356	<406 J	<366	<356	<350	<363 J
Acenaphthylene		41000	<366	59 J	<360 J	<376	<356	<406 J	19 J	<356	<350	41 J
Acenaphthene		50000	<366	48 J	150 J	<376	<356	<406 J	<366	<356	<350	<363 J
Fluorene		50000	<366	54 J	120 J	<376	<356	<406 J	<366	<356	<350	<363 J
Phenanthrene		50000	<366	690 J	1300 J	<376	28 J	<406 J	180 J	44 J	<350	57 J
Anthracene		50000	<366	220 J	290 J	<376	6 J	<406 J	54 J	9 J	<350	34 J
Fluoranthene		50000	<366	1300 J	1700 J	<376	68 J	<406 J	270 J	77 J	<350	210 J
Pyrene		50000	<366	1200 J	1500 J	<376	74 J	<406 J	360 J	70 J	<350	230 J
Benzo(a)anthracene		224	<366	**590 J**	**860 J**	<376	37 J	29 J	160 J	40 J	<350	140 J
Chrysene		400	<366	**620 J**	**790 J**	<376	45 J	59 J	210 J	44 J	<350	140 J
Benzo(b)fluoranthene		224	<366	**850 J**	**1100 J**	<376	37 J	<406 J	**350 J**	41 J	<350	160 J
Benzo(k)fluoranthene		224	<366	**650 J**	**770 J**	<376	42 J	<406 J	**260 J**	38 J	<350	130 J
Benzo(a)pyrene		61	<366	**520 J**	**720 J**	<376	42 J	<406 J	**170 J**	39 J	<350	**110 J**
Indeno (1,2,3-cd)pyrene		3200	<366	82 J	130 J	<376	34 J	<406 J	<366	<356	<350	<363 J
Dibenzo(a,h)anthracene		14	<366	<389 J	**50 J**	<376	<356	<406 J	<366	<356	<350	<363 J
Benzo(g,h,i)perylene		50000	<366	73 J	96 J	<376	42 J	<406 J	<366	<356	<350	<363 J

J Estimated concentration.
ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
NYSDEC New York State Department of Environmental Conservation.
* NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 3. Concentrations of Polynuclear Aromatic Hydrocarbons in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameter:	Sample Id: / Sample Date: / Units:	B-28 7/30/97 ug/kg	B-31 8/1/97 ug/kg	TP VII BTM 7/29/97 ug/kg	TP VII N 7/29/97 ug/kg	TP VII W 7/29/97 ug/kg	Cesspool Liquid 7/30/97 ug/L	Cesspool Soil 7/30/97 ug/kg	GP-1 (Comp) 7/29/97 ug/kg	GP-2 7/25/97 ug/kg
	NYSDEC Recommended Soil Cleanup Objectives* (in ug/kg)									
Naphthalene	13000	160 J	<370	<396 J	<403 J	<366 J	<400	8500 J	<350	<360
2-Methylnaphthalene	364000	35 J	<370	<396 J	<403 J	<366 J	<400	9800 J	<350	<360
Acenaphthylene	41000	<825	<370	<396 J	<403 J	<366 J	<400	<5874 J	<350	<360
Acenaphthene	50000	<825	<370	<396 J	<403 J	<366 J	<400	<5874 J	<350	<360
Fluorene	50000	<825	<370	<396 J	<403 J	<366 J	<400	<5874 J	<350	<360
Phenanthrene	50000	220 J	<370	230 J	<403 J	<366 J	<400	<5874 J	<350	<360
Anthracene	50000	48 J	<370	64 J	<403 J	<366 J	<400	**16000 J**	<350	<360
Fluoranthene	50000	360 J	17 J	370 J	<403 J	<366 J	<400	<5874 J	<350	<360
Pyrene	50000	500 J	22 J	510 J	<403 J	<366 J	<400	390 J	<350	<360
Benzo(a)anthracene	224	170 J	<370	190 J	<403 J	<366 J	<400	<5874 J	<350	<360
Chrysene	400	260 J	<370	160 J	<403 J	<366 J	<400	<5874 J	<350	<360
Benzo(b)fluoranthene	224	**300 J**	<370	180 J	<403 J	<366 J	<400	<5874 J	<350	<360
Benzo(k)fluoranthene	224	**230 J**	<370	130 J	<403 J	<366 J	<400	<5874 J	<350	<360
Benzo(a)pyrene	61	**180 J**	<370	**160 J**	<403 J	<366 J	<400	<5874 J	<350	<360
Indeno (1,2,3-cd)pyrene	3200	<825	<370	<396 J	<403 J	<366 J	<400	<5874 J	<350	<360
Dibenzo(a,h)anthracene	14	<825	<370	<396 J	<403 J	<366 J	<400	<5874 J	<350	<360
Benzo(g,h,i)perylene	50000	<825	<370	<396 J	<403 J	<366 J	<400	<5874 J	<350	<360

J Estimated concentration.
ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
NYSDEC New York State Department of Environmental Conservation.
* NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 3. Concentrations of Polynuclear Aromatic Hydrocarbons in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameter:	Sample Id: / Sample Date: / Units: NYSDEC Recommended Soil Cleanup Objectives* (in ug/kg)	FB 072597 7/25/97 ug/L	FB 072997 7/29/97 ug/L	FB 080197 8/1/97 ug/L
Naphthalene	13000	<11.8	<10	<10
2-Methylnaphthalene	364000	<11.8	<10	<10
Acenaphthylene	41000	<11.8	<10	<10
Acenaphthene	50000	<11.8	<10	<10
Fluorene	50000	<11.8	<10	<10
Phenanthrene	50000	<11.8	<10	<10
Anthracene	50000	<11.8	<10	<10
Fluoranthene	50000	<11.8	<10	<10
Pyrene	50000	<11.8	<10	<10
Benzo(a)anthracene	224	<11.8	<10	<10
Chrysene	400	<11.8	<10	<10
Benzo(b)fluoranthene	224	<11.8	<10	<10
Benzo(k)fluoranthene	224	<11.8	<10	<10
Benzo(a)pyrene	61	<11.8	<10	<10
Indeno (1,2,3-cd)pyrene	3200	<11.8	<10	<10
Dibenzo(a,h)anthracene	14	<11.8	<10	<10
Benzo(g,h,i)perylene	50000	<11.8	<10	<10

J Estimated concentration.
ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
NYSDEC New York State Department of Environmental Conservation.
* NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 4. Concentrations of Petroleum Related Volatile Organic Compounds in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameter:	Sample Id: / Sample Date: / Units:	NYSDEC Recommended Soil Cleanup Objectives* (in ug/kg)	B-2 7/31/97 ug/kg	B-24 7/30/97 ug/kg	B-27 7/30/97 ug/kg	B-28 7/30/97 ug/kg	B-29 8/1/97 ug/kg	TP VII BTM 7/29/97 ug/kg	TP VII E 7/30/97 ug/kg	TP VII N 7/29/97 ug/kg	TP VII S 7/30/97 ug/kg	TP VII W 7/29/97 ug/kg	Cesspool Liquid 7/30/97 ug/L
Benzene		60	<1	<1.1	<1	<1.2	<6.6	<1.1	<1	<1.2	<1.2	<3.6	<1
n-Butylbenzene		--	<1	<1.1	<1	<1.2	270	<1.1	<1	<1.2	<1.2	<3.6	5
s-Butylbenzene		--	<1	<1.1	<1	<1.2	15	<1.1	<1	<1.2	<1.2	<3.6	<1
t-Butylbenzene		--	<1	<1.1	<1	<1.2	<6.6	<1.1	<1	<1.2	<1.2	<3.6	<1
Ethylbenzene		5500	<1	<1.1	<1	<1.2	96	<1.1	<1	<1.2	<1.2	<3.6	<1
Isopropylbenzene		--	<1	<1.1	<1	<1.2	<6.6	<1.1	<1	<1.2	<1.2	<3.6	<1
Isopropyltoluene		--	<1	<1.1	<1	<1.2	22	<1.1	<1	<1.2	<1.2	<3.6	5
Methyl-t-butyl ether		--	<1	<1.1	<1	<1.2	<6.6	<1.1	<1	<1.2	<1.2	<3.6	<1
Naphthalene		13000	<1	<1.1	<1	<1.2	140	1	<1	<1.2	<1.2	<3.6	2
n-Propylbenzene		50000	<1	<1.1	<1	<1.2	12	<1.1	<1	<1.2	<1.2	<3.6	<1
Toluene		1500	<1	<1.1	<1	<1.2	<6.6	<1.1	<1	<1.2	<1.2	6	<1
1,2,4-Trimethylbenzene		--	<1	<1.1	<1	<1.2	490	<1.1	<1	<1.2	<1.2	<3.6	<1
1,3,5-Trimethylbenzene		--	<1	<1.1	<1	<1.2	470	<1.1	<1	<1.2	<1.2	<3.6	<1
Xylenes (total)		1200	<1	<1.1	<1	<1.2	240	<1.1	<1	<1.2	<1.2	<3.6	<1

ug/L Micrograms per liter.
ug/kg Micrograms per kilogram.
-- No applicable objective.
NYSDEC New York State Department of Environmental Conservation.
* NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 4. Concentrations of Petroleum Related Volatile Organic Compounds in Soil and Cesspool Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameter:	NYSDEC Recommended Soil Cleanup Objectives* (in ug/kg)	Cesspool Soil 7/30/97 ug/kg	GP-1 7/29/97 ug/kg	GP-2 7/25/97 ug/kg	FB 072597 7/25/97 ug/L	FB 072997 7/29/97 ug/L	FB 080197 8/1/97 ug/L
Benzene	60	<2.3	<1.2	<1.1	<1	<1	<1
n-Butylbenzene	--	170	<1.2	<1.1	<1	<1	<1
s-Butylbenzene	--	200	<1.2	<1.1	<1	<1	<1
t-Butylbenzene	--	38	<1.2	<1.1	<1	<1	<1
Ethylbenzene	5500	<2.3	<1.2	<1.1	<1	<1	<1
Isopropylbenzene	--	<2.3	<1.2	<1.1	<1	<1	<1
Isopropyltoluene	--	260	<1.2	<1.1	<1	<1	<1
Methyl-t-butyl ether	--	<2.3	<1.2	<1.1	<1	<1	<1
Naphthalene	13000	<2.3	<1.2	<1.1	<1	<1	<1
n-Propylbenzene	50000	<2.3	<1.2	<1.1	<1	<1	<1
Toluene	1500	<2.3	2	<1.1	<1	<1	<1
1,2,4-Trimethylbenzene	--	<2.3	<1.2	<1.1	<1	<1	<1
1,3,5-Trimethylbenzene	--	42	<1.2	<1.1	<1	<1	<1
Xylenes (total)	1200	55	<1.2	<1.1	<1	<1	<1

ug/L Micrograms per liter.
ug/kg Micrograms per kilogram.
-- No applicable objective.
NYSDEC New York State Department of Environmental Conservation.
* NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 5. Concentrations of Target Compound List Volatile Organic Compounds in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	Sample Id: / Sample Date: / Units:	NYSDEC Recommended Soil Cleanup Objectives* (in mg/kg)	B-16 7/30/97 ug/kg	B-17 7/31/97 ug/kg	B-21 7/31/97 ug/kg	B-23 7/30/97 ug/kg	TPVII S 7/30/97 ug/kg	TB 73097 7/30/97 ug/L
Chloromethane		--	<11	<11	<11	<11	<11	<10
Bromomethane		--	<11	<11	<11	<11	<11	<10
Vinyl chloride		200	<11	<11	<11	<11	<11	<10
Chloroethane		1900	<11	<11	<11	<11	<11 J	<10
Methylene chloride		100	<11	<11	<11	<11	<11	1 JB
Acetone		200	<23	<24	<23	<29	<11	<10
Carbon disulfide		2700	<11	<11	<11	<11	<11	<10
1,1-Dichloroethene		400	<11	<11	<11	<11	<11	<10
1,1-Dichloroethane		200	<11	<11	<11	<11	<11	<10
1,2-Dichloroethene (total)		250	<11	<11	<11	<11	<11	<10
Chloroform		300	<11	<11	<11	<11	<11	<10
1,2-Dichloroethane		100	<11	<11	<11	<11	<11 J	<10
2-Butanone		300	<11	<11	<11	<11	<11 J	<10
1,1,1-Trichloroethane		800	<11	<11	<11	<11	<11	<10
Carbon tetrachloride		600	<11	<11	<11	<11	<11 J	<10 J
Bromodichloromethane		--	<11	<11	<11	<11	<11	<10
1,2-Dichloropropane		--	<11	<11	<11	<11	<11	<10
cis-1,3-Dichloropropene		--	<11	<11	<11	<11	<11	<10
Trichloroethene		700	<11	<11	<11	<11	<11	<10
Dibromochloromethane		--	<11	<11	<11	<11	<11	<10
1,1,2-Trichloroethane		--	<11	<11	<11	<11	<11	<10
Benzene		60	<11	<11	<11	<11	<11	<10
trans-1,3-Dichloropropene		--	<11	<11	<11	<11	<11	<10
Bromoform		--	<11	<11	<11	<11	<11	<10
4-Methyl-2-pentanone		1000	<11	<11	<11	<11	<11	<10
2-Hexanone		--	<11	<11	<11	<11	<11	<10
Tetrachloroethene		1400	<11	<11	<11	<11	2 J	<10
1,1,2,2-Tetrachloroethane		600	<11	<11	<11	<11	<11	<10
Toluene		1500	<11	<11	1 J	<11	<11	<10
Chlorobenzene		1700	<11	<11	<11	<11	<11	<10
Ethylbenzene		5500	<11	<11	<11	<11	<11	<10
Styrene		--	<11	<11	<11	<11	<11	<10
Xylene (total)		1200	<11	<11	<11	<11	<11	<10

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
B Analyte also detected in Method Blank.
J Estimated concentration.
NYSDEC New York State Department of Environmental Conservation.
* NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 5. Concentrations of Target Compound List Volatile Organic Compounds in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	NYSDEC Recommended Soil Cleanup Objectives* (in mg/kg)	Sample Id: TB 73197 Sample Date: 7/31/97 Units: ug/L	FB 073097 7/30/97 ug/L	FB 073197 7/31/97 ug/L
Chloromethane	--	<10	<10	<10
Bromomethane	--	<10	<10	<10
Vinyl chloride	200	<10	<10	<10
Chloroethane	1900	<10	<10	<10
Methylene chloride	100	1 J	<10	1 J
Acetone	200	<10	<10	<10
Carbon disulfide	2700	<10	<10	<10
1,1-Dichloroethene	400	<10	<10	<10
1,1-Dichloroethane	200	<10	<10	<10
1,2-Dichloroethene (total)	550	<10	<10	<10
Chloroform	300	<10	3 J	<10
1,2-Dichloroethane	100	<10	<10	<10
2-Butanone	300	<10	<10	<10
1,1,1-Trichloroethane	800	<10	<10	<10
Carbon tetrachloride	600	<10 J	<10 J	<10 J
Bromodichloromethane	--	<10	0.3 J	<10
1,2-Dichloropropane	--	<10	<10	<10
cis-1,3-Dichloropropene	--	<10	<10	<10
Trichloroethene	700	<10	<10	<10
Dibromochloromethane	--	<10	<10	<10
1,1,2-Trichloroethane	--	<10	<10	<10
Benzene	60	<10	<10	<10
trans-1,3-Dichloropropene	--	<10	<10	<10
Bromoform	--	<10	<10	<10
4-Methyl-2-pentanone	1000	<10	<10	<10
2-Hexanone	--	<10	<10	<10
Tetrachloroethene	1400	<10	<10	<10
1,1,2,2-Tetrachloroethane	600	<10	<10	<10
Toluene	1500	<10	<10	<10
Chlorobenzene	1700	<10	<10	<10
Ethylbenzene	5500	<10	<10	<10
Styrene	--	<10	<10	<10
Xylene (total)	1200	<10	<10	<10

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
B Analyte also detected in Method Blank.
J Estimated concentration.
NYSDEC New York State Department of Environmental Conservation.
* NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 6. Concentrations of Target Compound List Semi-Volatile Organic Compounds in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	Sample Id:	B-16	B-17	B-21	B-23	TPVII S	FB 073097	FB 073197
	Sample Date:	7/30/97	7/31/97	7/31/97	7/30/97	7/30/97	7/30/97	7/31/97
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/L	ug/L
	NYSDEC Recommended Soil Cleanup Objectives* (in ug/kg)							
Phenol	30	<350	<350	<350	<360	<360	<10	<10
bis(2-Chloroethyl)ether	--	<350	<350	<350	<360	<360	<10	<10
2-Chlorophenol	800	<350	<350	<350	<360	<360	<10	<10
1,3-Dichlorobenzene	1600	<350	<350	<350	<360	<360	<10	<10
1,4-Dichlorobenzene	8500	<350	<350	<350	<360	<360	<10	<10
1,2-Dichlorobenzene	7900	<350	<350	<350	<360	<360	<10	<10
2-Methylphenol	100	<350	<350	<350	<360	<360	<10	<10
2,2'-oxybis(1-Chloropropane)	--	<350	<350 J	<350	<360	<360	<10	<10
4-Methylphenol	900	<350	<350	<350	<360	<360	<10	<10
N-Nitroso-di-n-propylamine	--	<350	<350	<350	<360	<360	<10	<10
Hexachloroethane	--	<350	<350	<350	<360	<360	<10	<10
Nitrobenzene	200	<350	<350	<350	<360	<360	<10	<10
Isophorone	4400	<350	<350	<350	<360	<360	<10	<10
2-Nitrophenol	330	<350	<350	<350	<360	<360	<10	<10
2,4-Dimethylphenol	--	<350	<350	<350	<360	<360	<10	<10
bis(2-Chloroethoxy)methane	--	<350	<350	<350	<360	<360	<10	<10
2,4-Dichlorophenol	400	<350	<350	<350	<360	<360	<10	<10
1,2,4-Trichlorobenzene	3400	<350	<350	<350	<360	<360	<10	<10
Naphthalene	13000	15 J	70 J	19 J	8 J	50 J	<10	<10
4-Chloroaniline	220	<350	<350	<350	<360	<360	<10	<10
Hexachlorobutadiene	--	<350	<350	<350	<360	<360	<10	<10
4-Chloro-3-methylphenol	240	<350	<350	<350	<360	<360	<10	<10
2-Methylnaphthalene	36400	<350	160 J	30 J	<360	110 J	<10	<10
Hexachlorocyclopentadiene	--	<350 J	<350 J	<350 J	<360 J	<360 J	<10 J	<10 J
2,4,6-Trichlorophenol	--	<350	<350	<350 J	<360	<360	<10	<10
2,4,5-Trichlorophenol	100	<880	<890	<880 J	<910	<910	<25	<25
2-Chloronaphthalene	--	<350	<350	<350 J	<360	<360	<10	<10
2-Nitroaniline	430	<880	<890 J	<880 J	<910	<910	<25	<25
Dimethylphthalate	200	<350	<350	<350 J	<360	<360	<10	<10
Acenaphthylene	41000	12 J	<350	<350 J	<360	<360	<10	<10
2,6-Dinitrotoluene	1000	<350	<350	<350 J	<360	<360	<10	<10
3-Nitroaniline	500	<880	<890	<880 J	<910	<910	<25	<25

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
B Analyte also detected in Method Blank.
J Estimated concentrations.
NYSDEC New York State Department of Environmental Conservation.
* NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

G:\APROJECT\NYULABS\NY0962.001\DATA\TCLVOC.XLS-SEMIVOCS

Table 6. Concentrations of Target Compound List Semi-Volatile Organic Compounds in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:	Sample Id: / Sample Date: / Units:	NYSDEC Recommended Soil Cleanup Objectives* (in ug/kg)	B-16 7/30/97 ug/kg	B-17 7/31/97 ug/kg	B-21 7/31/97 ug/kg	B-23 7/30/97 ug/kg	TPVII S 7/30/97 ug/kg	FB 073097 7/30/97 ug/L	FB 073197 7/31/97 ug/L
Acenaphthene		50000	130 J	<350	<350 J	14 J	<360	<10	<10
2,4-Dinitrophenol		200	<880	<890	<880 J	<910	<910	<25	<25
4-Nitrophenol		100	<880	<890	<880 J	<910	<910	<25	<25
Dibenzofuran		6200	58 J	26 J	<350 J	9 J	<360	<10	<10
2,4-Dinitrotoluene		--	<350	<350	<350 J	<360	<360	<10	<10
Diethylphthalate		7100	<350	<350	<350 J	<360	<360	<10	<10
4-Chlorophenyl-phenylether		--	<350	<350	<350 J	<360	<360	<10	<10
Fluorene		50000	160 J	<350	<350 J	14 J	<360	<10	<10
4-Nitroaniline		--	<880	<890	<880 J	<910	<910	<25	<25
4,6-Dinitro-2-methylphenol		--	<880	<890	<880 J	<910	<910 J	<25	<25
N-Nitrosodiphenylamine (1)		--	<350	<350	<350 J	<360	<360 J	<10	<10
4-Bromophenyl-phenylether		--	<350	<350	<350 J	<360	<360 J	<10	<10
Hexachlorobenzene		410	<350	<350	<350 J	<360	<360 J	<10	<10
Pentachlorophenol		1000	<880	<890	<880 J	<910	**1100 J**	<25	<25
Phenanthrene		50000	1600	110 J	65 J	200 J	74 J	<10	<10
Anthracene		50000	340 J	14 J	27 J	35 J	32 J	<10	<10
Carbazole		--	200 J	<350	<350 J	25 J	<360 J	<10	<10
Di-n-butylphthalate		8100	<350	<350	<350 J	<360	<360 J	0.3 JB	0.5 JB
Fluoranthene		50000	2400	120 J	<350 J	300 J	<360 J	<10	<10
Pyrene		50000	1200	130 J	<350 J	160 J	220 J	<10	<10
Butylbenzylphthalate		50000	<350	<350	<350 J	<360	<360 J	<10	<10
3,3'-Dichlorobenzidine		--	<350	<350	<350 J	<360	<360 J	<10	<10
Benzo(a)anthracene		224	**1200**	67 J	<350 J	130 J	<360 J	<10	<10
Chrysene		400	**1400**	99 J	<350 J	170 J	<360 J	<10	<10
bis(2-Ethylhexyl)phthalate		50000	<350	<350	<350 J	<360	<360 J	0.9 JB	4 JB
Di-n-octylphthalate		50000	<350	<350	<350 J	<360	<360 J	<10	<10
Benzo(b)fluoranthene		224	**1300**	88 J	<350 J	160 J	<360 J	<10	<10
Benzo(k)fluoranthene		224	**1100**	79 J	<350 J	150 J	<360 J	<10	<10
Benzo(a)pyrene		61	**1100**	**84 J**	<350 J	**130 J**	<360 J	<10	<10
Indeno(1,2,3-cd)pyrene		3200	280 J	89 J	<350 J	43 J	<360 J	<10	<10
Dibenz(a,h)anthracene		14	<350	<350	<350 J	12 J	<360 J	<10	<10
Benzo(g,h,i)perylene		50000	78 J	53 J	<350 J	20 J	<360 J	<10	<10

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
B Analyte also detected in Method Blank.
J Estimated concentrations.
NYSDEC New York State Department of Environmental Conservation.
* NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).

Table 7. Concentrations of Target Analyte List Metals in Soil Samples Collected at the Site Located at 425 Merrick Avenue, Westbury, New York.

Parameters:		Sample Id:	B-16	B-17	B-21	B-23	TPVII S	FB 073097	FB 073197
		Sample Date:	7/31/97	7/31/97	7/31/97	7/31/97	7/30/97	7/30/97	7/31/97
		Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/L	ug/L
	NYSDEC Recommended Soil Cleanup Objectives* (in mg/kg)								
Aluminum	SB		3610	3740	4560	6500	3880	<32.0	398
Antimony	SB		<1.5	<1.5	<1.6	<1.7	<1.8	<8.0	<8.0
Arsenic	7.5 or SB		2.2	3.4	2.4	2.9	14.6	<3.0	<3.0
Barium	300 or SB		34.3 B	22.0 B	12.5 B	39.5 B	41.1 B	<1.0	1.6 B
Beryllium	0.16 or SB		0.25 B	0.24 B	0.23 B	0.30 B	0.26 B	<1.0	<1.0
Cadmium	1.0 or SB		0.42 B	0.39 B	<0.19	0.48 B	2.7	<1.0	<1.0
Calcium	SB		5480 J	3400 J	3500 J	2230 J	6480 J	117 B	220 B
Chromium	10 or SB		4.5	5.9	5.8	11.8	34.8	<1.0	2.8 B
Cobalt	30 or SB		1.6 B	1.8 B	1.3 B	1.6 B	2.0 B	<1.0	<1.0
Copper	25 or SB		15.9	78.8	<8.4	41.8	77.7	2.3 B	10.6 B
Iron	2,000 or SB		4930	6600	5660	9880	8700	39.5 B	57.2 B
Lead	SB		120 J	62.3 J	19.5 J	106 J	107 J	1.6 B	<1.0
Magnesium	SB		2690	1750	2070	731 B	3490	20.8 B	48.7 B
Manganese	SB		121	60.0	106	176	80.3	1.2 B	21.9
Mercury	0.1		<0.10	3.7	<0.10	1.1	0.52	<0.20	<0.20
Nickel	13 or SB		4.1 B	5.9 B	<3.4	10.4	34.6	6.9 B	3.2 B
Potassium	SB		190 J	141 J	154 J	142 J	152 J	<442	<442
Selenium	2 or SB		0.78 B	0.62 B	0.63 B	1.1	0.84 B	<3.0 J	<3.0 J
Silver	SB		<0.19	<0.18	<0.19	<0.21	0.37 B	<1.0	<1.0
Sodium	SB		<48.9 J	<33.4 J	<75.8 J	<76.8 J	<56.8 J	685 B	617 B
Thallium	SB		<0.58	<0.56	<0.58	<0.64	<0.66	<3.0	<3.0
Vanadium	150 or SB		7.5 B	7.9 B	7.1 B	12.4	9.1 B	<1.0	<1.0
Zinc	20 or SB		116	61.5	<22.9	92.5	146	18.9 B	48.6

mg/kg Milligrams per kilogram.
ug/L Micrograms per liter.
B Analyte result between instrument detection limit and contract required detection limit.
J Estimated value.
NYSDEC New York State Department of Environmental Conservation.
* NYSDEC Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objective and Cleanup Levels (April 1995).
SB Site Background.

DRAFTER: GS/WHC | APPROVED: GE | CHECKED: GE | DRAWING: SITESMPS | HARD FILE: 1751 | PRJCT NO.: NY0962.001 | DWG DATE: 21OCT97

MEADOWBROOK STATE PARKWAY

1-STORY

2-STORY BLDG. (BLDG. II)

1-STORY BLDG. (SHED IX)

CONCRETE

TEST PIT IX

B-23

B-14

TEST PIT II

B-12

B-13

TEST PIT III

B-15

1-STORY MASONRY BLDG. (BLDG. III)

TEST PIT IV

B-16

TEST PIT VII

1-STORY BLDG. (SHED VIII)

B-25 SD-4

B-26 SD-5

B-24 SD-3

CONCRETE BASEMENT (ROOFED) SEPTIC FIELD (SHED VII)

HIGH METAL SHED (SHED III)

FORMER SUPPLY WELL

EXISTING CESSPOOL

GP-2

B-2

(SHED II)

EXISTING DRYWELL

B-22

B-18

STAIRS

TEST PIT VIII

B-17

RAISED PLATFORM

METAL SHED (SHED IV)

1-STORY

1-STORY

CATCH BASIN

B-31

SEPTIC FIELD

TEST PIT I

B-27

(SHED III)

B-19

METAL VACUUM SPHERE (SHED I)

GP-1

B-21

TEST PIT VI

B-28

SD-2

B-29

SD-1

ASPHALT PAVEMENT

1 & 2-STORY BLDG. (MAIN BLDG.)

ASPHALT PAVEMENT

(SHED VI)

B-30

B-20

TRANSFORMER LOCATION

TEST PIT V

CONCRETE DECK OVER WATER AND OIL TANK

1-STORY MASONRY BLDG. (BLDG. IV)

GATE

GATE

ASPHALT PAVEMENT

FENCE

GATE

MERRICK AVENUE

N

EXPLANATION

- GP-2 — APPROXIMATE LOCATION AND DESIGNATION OF GREASE PIT SAMPLE
- B-12 — PROPOSED SOIL BORING LOCATIONS
- SD-2 — APPROXIMATE LOCATION AND DESIGNATION OF STORM DRAIN SEDIMENT SAMPLE
- AREA OF POTENTIAL ENVIRONMENTAL CONCERN
- PROPOSED LOCATIONS FOR INTERIM REMEDIAL MEASURES
- TEST PIT — APPROXIMATE LOCATION OF TEST PIT
- APPROXIMATE LOCATION AND DESIGNATION OF FORMER BUILDING

0 — 50 FT

GERAGHTY & MILLER, INC.
Environmental Services
A Heidemij Company

LOCATION AND DESIGNATION OF OF SITE INVESTIGATION SOIL SAMPLES FOR THE SITE LOCATED AT 425 MERRICK AVENUE, WESTBURY, NEW YORK

FIGURE 1

MEADOWBROOK STATE PARKWAY

CONCRETE

1-STORY

2-STORY BLDG. (BLDG. II)

1-STORY BLDG. (SHED IX)

TEST PIT IX

B-23

B-12

B-13

B-14

TEST PIT II

TEST PIT III

B-15

MW-1

MW-3

TEST PIT VII

1-STORY BLDG. (SHED VIII)

B-24 SD-3

B-25 SD-4

B-26 SD-5

CONCRETE BASEMENT (ROOFED) SEPTIC FIELD (SHED VII)

HIGH METAL SHED (SHED III)

1-STORY MASONRY BLDG. (BLDG. III)

TEST PIT IV

B-16

EXISTING CESSPOOL

GP-2

B-2

SHED VIII

EXISTING DRYWELL

B-22

B-18

STAIRS

TEST PIT VIII

B-17

FORMER SUPPLY WELL

CATCH BASIN

B-31

SEPTIC FIELD

RAISED PLATFORM

METAL SHED (SHED IV)

1-STORY

1-STORY

TEST PIT I

B-27

SHED III

B-19

METAL VACUUM SPHERE (SHED I)

B-28

SD-2

GP-1

MW-2

B-21

TEST PIT VI

B-29

SD-1

ASPHALT PAVEMENT

1 & 2-STORY BLDG. (MAIN BLDG.)

ASPHALT PAVEMENT

SHED VI

B-30

B-20

TRANSFORMER LOCATION

TEST PIT V

CONCRETE DECK OVER WATER AND OIL TANK

1-STORY MASONRY BLDG. (BLDG. IV)

GATE

GATE

ASPHALT PAVEMENT

FENCE

GATE

MERRICK AVENUE

N

EXPLANATION

- MW-1 — APPROXIMATE LOCATION AND DESIGNATION OF PROPOSED MONITORING WELL
- GP-2 — APPROXIMATE LOCATION AND DESIGNATION OF GREASE PIT SAMPLE
- B-12 — PROPOSED SOIL BORING LOCATIONS
- SD-2 — APPROXIMATE LOCATION AND DESIGNATION OF STORM DRAIN SEDIMENT SAMPLE
- AREA OF POTENTIAL ENVIRONMENTAL CONCERN
- PROPOSED LOCATIONS FOR INTERIM REMEDIAL MEASURES
- TEST PIT — APPROXIMATE LOCATION OF TEST PIT
- APPROXIMATE LOCATION AND DESIGNATION OF FORMER BUILDING

0 50 FT

GERAGHTY & MILLER, INC.
Environmental Services
A Heidemij Company

PROPOSED MONITORING WELL LOCATIONS FOR THE SITE LOCATED AT 425 MERRICK AVENUE, WESTBURY, NEW YORK

FIGURE 2

DWG DATE: 21OCT97 | PROJCT NO.: NY0962.001 | HARD FILE: 1751 | DRAWING: I_PROPMONS | CHECKED: GE | APPROVED: GE | DRAFTER: GS/WHC

APPENDIX A

LABORATORY REPORTS

IEA
An Aquarion Company

August 29, 1997

Mr. Greg Ernst
GERAGHTY & MILLER
88 Duryea Road
Melville, NY 11747

Dear Mr. Ernst :

Please find enclosed the analytical results of 20 sample(s) received at our laboratory on July 26-31, 1997. This report contains sections addressing the following information at a minimum:

- sample summary
- analytical methodology
- state certifications
- definition of data qualifiers and terminology
- analytical results
- chain-of-custody

IEA Report #7097-1788A	Purchase Order #NY0962.001
Project ID: NYU LABS	

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 261-4458 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Jeffrey C. Curran
Laboratory Manager

JCC

printed on recycled paper

7097-1788A
GERAGHTY & MILLER

Case Narrative

Volatile Organics - Subcontracted to AEN/MA.

Polychlorinated Biphenyls (PCB's) - PCB samples were extracted and analyzed by GC/ECD using guidance provided in Methods 3510B/3550A/8081. The instrumentation used was a Hewlett-Packard Gas Chromatograph equipped with an Electron Capture Detector (Ni^{63}).

All samples were extracted and concentrated without any apparent problems.

The following samples required acid and sulfur cleanup prior to analysis: PBLK70, FB 072597, PBLK65, GP-2, PBLK73, GP-1(SIDE), GP-1(BTM), TPVII W, TPVII N, TPVII BTM, PBLK81, B-14, B-15, B-20, B-30, B-19, B-24, B-18, and TPVII E.

Surrogates were diluted out of GP(SIDE), GP-1(BTM), B-24, AND TPVIIE.

Samples PBLK77QC2 and PBLK81QC contained 1016, 1242, and 1260. The PCB QC used was prepared incorrectly (1016 should not have been used). Only 1260 was calculated since 1016 and 1242 peaks overlap.

Manual integrations were performed if required, and any affected peaks were designated with an "FF" on the area report in the column titled "Code". Manual integrations were initialed by the analyst that performed the integration.

Semi-Volatile Organics - Semi-volatile organic samples were extracted and analyzed by capillary GC/MS using guidance provided in Methods 3510B/3550/8270B. The instrumentation used was a Hewlett-Packard Gas Chromatograph interfaced with a Mass Selective Detector.

Samples TPVII W, TPVII N, TPVII BTM, B-27 and B-24 exhibited internal standard area suppression when initially analyzed. The samples were reanalyzed with similar results to confirm suppression due to sample matrix interference. The data from both analyses is included with the reanalyses of samples TPVII W, TPVII N, TPVII BTM, and B-27 labelled using a "RE" suffix. B-24 was reanalyzed at a 1:2 dilution for non-target contamination, the reanalysis is labelled using a "DL" suffix.

Sample B-28 was analyzed at a 1:2 dilution for non-target contamination.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	Method Blank (08/01)
Project:		Sample:	
Report Date:	08/06/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/01/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	96	%

Comments:

PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-487-01, 0070-487-02

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-487-01
Project:	7097-1788A	Sample:	GP2
Report Date:	08/06/97	Type:	Soil
Collected:	07/25/97	Container:	Glass
Received:	07/30/97		
Analyzed:	08/01/97	Dilution Factor:	1.1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1.1	BQL
2	n-Butylbenzene	1.1	BQL
3	s-Butylbenzene	1.1	BQL
4	t-Butylbenzene	1.1	BQL
5	Ethylbenzene	1.1	BQL
6	Isopropylbenzene	1.1	BQL
7	Isopropyltoluene	1.1	BQL
8	Methyl-t-butylether	1.1	BQL
9	Naphthalene	1.1	BQL
10	n-Propylbenzene	1.1	BQL
11	Toluene	1.1	BQL
12	1,2,4-Trimethylbenzene	1.1	BQL
13	1,3,5-Trimethylbenzene	1.1	BQL
14	Xylenes (Total)	1.1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	85	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-487-02
Project:	7097-1788A	Sample:	FB 072597
Report Date:	08/06/97	Type:	Water
Collected:	07/25/97	Container:	VOA
Received:	07/30/97		
Analyzed:	08/01/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL (ug/L)	Result (ug/L)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	95	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	Method Blank (08/01)
Project:		Sample:	
Report Date:	08/06/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/01/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	96	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-488-01, 0070-488-02, 0070-488-03, 0070-488-04, 0070-488-05

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-488-01
Project:	7097-1788A	Sample:	GP-1 (SB Comp)
Report Date:	08/07/97	Type:	Soil
Collected:	07/29/97	Container:	Glass
Received:	07/31/97		
Analyzed:	08/01/97	Dilution Factor:	1.2
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1.2	BQL
2	n-Butylbenzene	1.2	BQL
3	s-Butylbenzene	1.2	BQL
4	t-Butylbenzene	1.2	BQL
5	Ethylbenzene	1.2	BQL
6	Isopropylbenzene	1.2	BQL
7	Isopropyltoluene	1.2	BQL
8	Methyl-t-butylether	1.2	BQL
9	Naphthalene	1.2	BQL
10	n-Propylbenzene	1.2	BQL
11	Toluene	1.2	2
12	1,2,4-Trimethylbenzene	1.2	BQL
13	1,3,5-Trimethylbenzene	1.2	BQL
14	Xylenes (Total)	1.2	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	89	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-488-02
Project:	7097-1788A	Sample:	TP V11-West
Report Date:	08/07/97	Type:	Soil
Collected:	07/29/97	Container:	Glass
Received:	07/31/97		
Analyzed:	08/01/97	Dilution Factor:	3.6
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	3.6	BQL
2	n-Butylbenzene	3.6	BQL
3	s-Butylbenzene	3.6	BQL
4	t-Butylbenzene	3.6	BQL
5	Ethylbenzene	3.6	BQL
6	Isopropylbenzene	3.6	BQL
7	Isopropyltoluene	3.6	BQL
8	Methyl-t-butylether	3.6	BQL
9	Naphthalene	3.6	BQL
10	n-Propylbenzene	3.6	BQL
11	Toluene	3.6	6
12	1,2,4-Trimethylbenzene	3.6	BQL
13	1,3,5-Trimethylbenzene	3.6	BQL
14	Xylenes (Total)	3.6	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	78	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-488-03
Project:	7097-1788A	Sample:	TP V11-North
Report Date:	08/07/97	Type:	Soil
Collected:	07/29/97	Container:	Glass
Received:	07/31/97		
Analyzed:	08/01/97	Dilution Factor:	1.2
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1.2	BQL
2	n-Butylbenzene	1.2	BQL
3	s-Butylbenzene	1.2	BQL
4	t-Butylbenzene	1.2	BQL
5	Ethylbenzene	1.2	BQL
6	Isopropylbenzene	1.2	BQL
7	Isopropyltoluene	1.2	BQL
8	Methyl-t-butylether	1.2	BQL
9	Naphthalene	1.2	BQL
10	n-Propylbenzene	1.2	BQL
11	Toluene	1.2	BQL
12	1,2,4-Trimethylbenzene	1.2	BQL
13	1,3,5-Trimethylbenzene	1.2	BQL
14	Xylenes (Total)	1.2	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	79	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-488-04
Project:	7097-1788A	Sample:	TP V11-Bottom
Report Date:	08/07/97	Type:	Soil
Collected:	07/29/97	Container:	Glass
Received:	07/31/97		
Analyzed:	08/01/97	Dilution Factor:	1.1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1.1	BQL
2	n-Butylbenzene	1.1	BQL
3	s-Butylbenzene	1.1	BQL
4	t-Butylbenzene	1.1	BQL
5	Ethylbenzene	1.1	BQL
6	Isopropylbenzene	1.1	BQL
7	Isopropyltoluene	1.1	BQL
8	Methyl-t-butylether	1.1	BQL
9	Naphthalene	1.1	1
10	n-Propylbenzene	1.1	BQL
11	Toluene	1.1	BQL
12	1,2,4-Trimethylbenzene	1.1	BQL
13	1,3,5-Trimethylbenzene	1.1	BQL
14	Xylenes (Total)	1.1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	77	%

Comments:

PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-488-05
Project:	7097-1788A	Sample:	FB-2
Report Date:	08/06/97	Type:	Water
Collected:	07/29/97	Container:	VOA
Received:	07/31/97		
Analyzed:	08/01/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL (ug/L)	Result (ug/L)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	92	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	Method Blank (08/05)
Project:		Sample:	
Report Date:	08/07/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/05/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	72	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-490-01, 0070-490-02, 0070-490-03

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-490-01
Project:	7097-1788A	Sample:	B-27
Report Date:	08/07/97	Type:	Soil
Collected:	07/30/97	Container:	Glass
Received:	08/04/97		
Analyzed:	08/05/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	70	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-490-02
Project:	7097-1788A	Sample:	B-24
Report Date:	08/07/97	Type:	Soil
Collected:	07/30/97	Container:	Glass
Received:	08/04/97		
Analyzed:	08/05/97	Dilution Factor:	1.1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1.1	BQL
2	n-Butylbenzene	1.1	BQL
3	s-Butylbenzene	1.1	BQL
4	t-Butylbenzene	1.1	BQL
5	Ethylbenzene	1.1	BQL
6	Isopropylbenzene	1.1	BQL
7	Isopropyltoluene	1.1	BQL
8	Methyl-t-butylether	1.1	BQL
9	Naphthalene	1.1	BQL
10	n-Propylbenzene	1.1	BQL
11	Toluene	1.1	BQL
12	1,2,4-Trimethylbenzene	1.1	BQL
13	1,3,5-Trimethylbenzene	1.1	BQL
14	Xylenes (Total)	1.1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	61	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-490-03
Project:	7097-1788A	Sample:	TP VII East
Report Date:	08/07/97	Type:	Soil
Collected:	07/30/97	Container:	Glass
Received:	08/04/97		
Analyzed:	08/05/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	67	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	Method Blank(08/05)
Project:		Sample:	
Report Date:	08/19/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/05/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	95	%

Comments:

PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-492-01

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	AEN-CT	AEN ID:	0070-492-01
Project:	7097-1788A	Sample:	B-28
Report Date:	08/19/97	Type:	Soil
Collected:	07/30/97	Container:	Glass
Received:	08/05/97		
Analyzed:	08/05/97	Dilution Factor:	1.2
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1.2	BQL
2	n-Butylbenzene	1.2	BQL
3	s-Butylbenzene	1.2	BQL
4	t-Butylbenzene	1.2	BQL
5	Ethylbenzene	1.2	BQL
6	Isopropylbenzene	1.2	BQL
7	Isopropyltoluene	1.2	BQL
8	Methyl-t-butylether	1.2	BQL
9	Naphthalene	1.2	BQL
10	n-Propylbenzene	1.2	BQL
11	Toluene	1.2	BQL
12	1,2,4-Trimethylbenzene	1.2	BQL
13	1,3,5-Trimethylbenzene	1.2	BQL
14	Xylenes (Total)	1.2	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	79	%

Comments:

PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.

TABLE SV-1.0 Aqueous
7097-1788A
GERAGHTY & MILLER
PAH'S

All values are ug/L.

Client Sample I.D.	Method Blank	FB-2		Quant. Limits with no Dilution
Lab Sample I.D.	SBLKMH	971788A-10		
Method Blank I.D.	SBLKMH	SBLKMH		
Quant. Factor	1.00	1.00		
Naphthalene	U	U		10
2-Methylnaphthalene	U	U		10
Acenaphthylene	U	U		10
Acenaphthene	U	U		10
Fluorene	U	U		10
Phenanthrene	U	U		10
Anthracene	U	U		10
Fluoranthene	U	U		10
Pyrene	U	U		10
Benzo(a)anthracene	U	U		10
Chrysene	U	U		10
Benzo(b)fluoranthene	U	U		10
Benzo(k)fluoranthene	U	U		10
Benzo(a)pyrene	U	U		10
Indeno(1,2,3-cd)pyrene	U	U		10
Dibenzo(a,h)anthracene	U	U		10
)enzo(g,h,i)perylene	U	U		10
Date Received		07/30/97		
Date Extracted	08/04/97	08/04/97		
Date Analyzed	08/15/97	08/15/97		

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.1
7097-1788A
GERAGHTY & MILLER
PAH'S

Aqueous

All values are ug/L.

Client Sample I.D.	Method Blank	FB 072597		Quant. Limits with no Dilution
Lab Sample I.D.	SBLKYH	971788A-02		
Method Blank I.D.	SBLKYH	SBLKYH		
Quant. Factor	1.00	1.18		
Naphthalene	U	U		10
2-Methylnaphthalene	U	U		10
Acenaphthylene	U	U		10
Acenaphthene	U	U		10
Fluorene	U	U		10
Phenanthrene	U	U		10
Anthracene	U	U		10
Fluoranthene	U	U		10
Pyrene	U	U		10
Benzo(a)anthracene	U	U		10
Chrysene	U	U		10
Benzo(b)fluoranthene	U	U		10
Benzo(k)fluoranthene	U	U		10
Benzo(a)pyrene	U	U		10
Indeno(1,2,3-cd)pyrene	U	U		10
Dibenzo(a,h)anthracene	U	U		10
Benzo(g,h,i)perylene	U	U		10
Date Received		07/26/97		
Date Extracted	07/30/97	07/30/97		
Date Analyzed	08/15/97	08/15/97		

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.2
7097-1788A
GERAGHTY & MILLER
PAH'S

Soil

All values are ug/Kg dry weight basis.

Client Sample I.D. Lab Sample I.D. Method Blank I.D. Quant. Factor	Method Blank SBLKIH SBLKIH 1.00	GP1(SBCOMP) 971788A-04 SBLKIH 1.06	TPVII W 971788A-07 SBLKIH 1.11	Quant. Limits with no Dilution
Naphthalene	U	U	U	330
2-Methylnaphthalene	U	U	U	330
Acenaphthylene	U	U	U	330
Acenaphthene	U	U	U	330
Fluorene	U	U	U	330
Phenanthrene	U	U	U	330
Anthracene	U	U	U	330
Fluoranthene	U	U	U	330
Pyrene	U	U	U	330
Benzo(a)anthracene	U	U	U	330
Chrysene	U	U	U	330
Benzo(b)fluoranthene	U	U	U	330
Benzo(k)fluoranthene	U	U	U	330
Benzo(a)pyrene	U	U	U	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
Dibenzo(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	330
Date Received		07/30/97	07/30/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/15/97	08/19/97	08/19/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.3
7097-1788A
GERAGHTY & MILLER
PAH'S

Soil

All values are ug/Kg dry weight basis.

Client Sample I.D.	TPVII W RE	TPVII N	TPVII N RE	Quant. Limits with no Dilution
Lab Sample I.D.	971788A-07RE	971788A-08	971788A-08RE	
Method Blank I.D.	SBLKIH	SBLKIH	SBLKIH	
Quant. Factor	1.11	1.22	1.22	
Naphthalene	U	U	U	330
2-Methylnaphthalene	U	U	U	330
Acenaphthylene	U	U	U	330
Acenaphthene	U	U	U	330
Fluorene	U	U	U	330
Phenanthrene	U	U	U	330
Anthracene	U	U	U	330
Fluoranthene	U	U	U	330
Pyrene	U	U	U	330
Benzo(a)anthracene	U	U	U	330
Chrysene	U	U	U	330
Benzo(b)fluoranthene	U	U	U	330
Benzo(k)fluoranthene	U	U	U	330
Benzo(a)pyrene	U	U	U	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
Dibenzo(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	330
Date Received	07/30/97	07/30/97	07/30/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/20/97	08/19/97	08/20/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.4
7097-1788A
GERAGHTY & MILLER
PAH'S

Soil

All values are ug/Kg dry weight basis.

Client Sample I.D.	TPVII BTM	TPVII BTM RE	B-19	Quant. Limits with no Dilution
Lab Sample I.D.	971788A-09	971788A-09RE	971788A-15	
Method Blank I.D.	SBLKIH	SBLKIH	SBLKIH	
Quant. Factor	1.20	1.20	1.08	
Naphthalene	U	U	U	330
2-Methylnaphthalene	U	U	U	330
Acenaphthylene	U	U	U	330
Acenaphthene	U	U	U	330
Fluorene	U	U	U	330
Phenanthrene	230J	270J	28J	330
Anthracene	64J	69J	6J	330
Fluoranthene	370J	430	68J	330
Pyrene	510	620	74J	330
Benzo(a)anthracene	190J	260J	37J	330
Chrysene	160J	170J	45J	330
Benzo(b)fluoranthene	180J	210J	37J	330
Benzo(k)fluoranthene	130J	160J	42J	330
Benzo(a)pyrene	160J	170J	42J	330
Indeno(1,2,3-cd)pyrene	U	U	34J	330
Dibenzo(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	42J	330
Date Received	07/30/97	07/30/97	07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/19/97	08/20/97	08/19/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.5 Soil
7097-1788A
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-27	B-27 RE	B-24	Quant. Limits with no Dilution
Lab Sample I.D.	971788A-16	971788A-16RE	971788A-17	
Method Blank I.D.	SBLKIH	SBLKIH	SBLKIH	
Quant. Factor	1.10	1.10	1.11	
Naphthalene	U	U	40J	330
2-Methylnaphthalene	U	U	U	330
Acenaphthylene	41J	46J	19J	330
Acenaphthene	U	U	U	330
Fluorene	U	U	U	330
Phenanthrene	57J	67J	180J	330
Anthracene	34J	35J	54J	330
Fluoranthene	210J	240J	270J	330
Pyrene	230J	290J	360J	330
Benzo(a)anthracene	140J	180J	160J	330
Chrysene	140J	160J	210J	330
Benzo(b)fluoranthene	160J	200J	350J	330
Benzo(k)fluoranthene	130J	200J	260J	330
Benzo(a)pyrene	110J	140J	170J	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
Dibenzo(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	330
Date Received	07/31/97	07/31/97	07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/19/97	08/20/97	08/22/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.6
7097-1788A
GERAGHTY & MILLER
PAH'S

Soil

All values are ug/Kg dry weight basis.

lient Sample I.D. ab Sample I.D. ethod Blank I.D. uant. Factor	B-24 DL 971788A-17DL SBLKIH 2.22	B-18 971788A-18 SBLKIH 1.14	B-28 971788A-19 SBLKIH 2.50	Quant. Limits with no Dilution
aphthalene	43JD	U	160J	330
-Methylnaphthalene	U	U	35J	330
cenaphthylene	U	U	U	330
Acenaphthene	U	U	U	330
uorene	U	U	U	330
enanthrene	190JD	U	220J	330
nthracene	60JD	U	48J	330
Fluoranthene	330JD	U	360J	330
rene	360JD	U	500J	330
enzo(a)anthracene	160JD	U	170J	330
Chrysene	210JD	U	260J	330
enzo(b)fluoranthene	340JD	U	300J	330
enzo(k)fluoranthene	310JD	U	230J	330
enzo(a)pyrene	170JD	U	180J	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
benzo(a,h)anthracene	U	U	U	330
enzo(g,h,i)perylene	U	U	U	330
Date Received	07/31/97	07/31/97	07/31/97	
ate Extracted	08/04/97	08/04/97	08/04/97	
ate Analyzed	08/22/97	08/19/97	08/20/97	

e Appendix for qualifier definitions
ote: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.7
7097-1788A
GERAGHTY & MILLER
PAH'S

Soil

All values are ug/Kg dry weight basis.

ent Sample I.D. ab Sample I.D. hod Blank I.D. nt. Factor	Method Blank SBLKAH SBLKAH 1.00	GP-2 971788A-01 SBLKAH 1.09		Quant. Limits with no Dilution
hthalene	U	U		330
ethylnaphthalene	U	U		330
naphthylene	U	U		330
cenaphthene	U	U		330
orene	U	U		330
nanthrene	U	U		330
hracene	U	U		330
luoranthene	U	U		330
ene	U	U		330
zo(a)anthracene	U	U		330
hrysene	U	U		330
nzo(b)fluoranthene	U	U		330
zo(k)fluoranthene	U	U		330
zo(a)pyrene	U	U		330
ndeno(1,2,3-cd)pyrene	U	U		330
enzo(a,h)anthracene	U	U		330
zo(g,h,i)perylene	U	U		330
ate Received e Extracted e Analyzed	 07/30/97 08/15/97	07/26/97 07/30/97 08/22/97		

Appendix for qualifier definitions
e: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE GC-1.0
7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

Aqueous

All values are ug/L.

Client Sample I.D. Lab Sample I.D. Method Blank I.D. Quant. Factor	Method Blank 072997-S04 PCBLK70 1.00	PBLK70 QC2 072997-B04 QC2 PCBLK70 1.00	FB 072597 971788A-02 PCBLK70 1.33	Quant. Limits with no Dilution
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	U	6.1X	U	1.0
Aroclor-1248	U	U	U	1.0
Aroclor-1254	U	U	U	1.0
Aroclor-1260	U	8.8X	U	1.0
Date Received			07/26/97	
Date Extracted	07/29/97	07/29/97	07/29/97	
Date Analyzed	07/31/97	07/31/97	07/31/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE GC-1.1 Aqueous
7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

[illegible]ient Sample I.D.	Method Blank	PBLK77 QC2 073197-B02	FB-2	Quant. Limits with no Dilution
[illegible]b Sample I.D.	073197-B02	QC2	971788A-10	
[illegible]thod Blank I.D.	PBLK77	PBLK77	PBLK77	
[illegible]ant. Factor	1.00	1.00	1.00	
[illegible]oclor-1016	U	U	U	1.0
[illegible]oclor-1221	U	U	U	2.0
[illegible]oclor-1232	U	U	U	1.0
[illegible]roclor-1242	U	U	U	1.0
[illegible]oclor-1248	U	U	U	1.0
[illegible]oclor-1254	U	U	U	1.0
[illegible]roclor-1260	U	5.8X	U	1.0
[illegible]te Received			07/30/97	
[illegible]te Extracted	07/31/97	07/31/97	07/31/97	
[illegible]ate Analyzed	08/08/97	08/12/97	08/25/97	

[illegible]e Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE GC-1.2 Soil
7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	PBLK65 QC2 072897-B04	GP-2	Quant. Limits with no Dilution
Lab Sample I.D.	072897-S04	QC2	971788A-01	
Method Blank I.D.	PCBLK65	PCBLK65	PCBLK65	
Quant. Factor	1.00	1.00	1.09	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	220X	U	33
Aroclor-1248	U	U	29.J	33
Aroclor-1254	U	U	140	33
Aroclor-1260	U	240X	U	33
Date Received			07/26/97	
Date Extracted	07/28/97	07/28/97	07/28/97	
Date Analyzed	07/30/97	07/30/97	07/30/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE GC-1.7 Soil
7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

ent Sample I.D. / Sample I.D. / hod Blank I.D. / nt. Factor	Method Blank 073097-S02 PCBLK73 1.00	GP-1(SIDE) 971788A-05 PCBLK73 21.7	GP-1(BTM) 971788A-06 PCBLK73 1120	Quant. Limits with no Dilution
clor-1016	U	U	U	33
clor-1221	U	U	U	67
clor-1232	U	U	U	33
roclor-1242	U	U	U	33
clor-1248	6.1J	2400B	120000B	33
clor-1254	U	3100	91000	33
roclor-1260	U	U	U	33
e Received		07/30/97	07/30/97	
e Extracted	07/30/97	07/30/97	07/30/97	
ate Analyzed	07/31/97	08/08/97	08/08/97	

Appendix for qualifier definitions
lote: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE GC-1.8
7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

Soil

All values are ug/Kg dry weight basis.

Client Sample I.D.	TPVII W	TPVII N	TPVII BTM	Quant. Limits with no Dilution
Lab Sample I.D.	971788A-07	971788A-08	971788A-09	
Method Blank I.D.	PCBLK73	PCBLK73	PCBLK73	
Quant. Factor	1.10	1.19	11.6	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	~~8.5JB~~	~~17.JB~~	920B	33
Aroclor-1254	7.7J	65.	1200	33
Aroclor-1260	10.J	36.J	U	33
Date Received	07/30/97	07/30/97	07/30/97	
Date Extracted	07/30/97	07/30/97	07/30/97	
Date Analyzed	07/31/97	08/01/97	08/08/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE GC-1.3
7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

Soil

All values are ug/Kg dry weight basis.

Client Sample I.D. Lab Sample I.D. Method Blank I.D. Quant. Factor	Method Blank 080497-B02 PBLK81 1.00	PBLK81 QC 080497-B02QC PBLK81 1.00	B-14 971788A-11 PBLK81 1.11	Quant. Limits with no Dilution
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	U	U	U	33
Aroclor-1254	U	U	140	33
Aroclor-1260	U	220X	68.	33
Date Received			07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/09/97	08/09/97	08/09/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE GC-1.4
7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

Soil

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-15	B-20	B-30	Quant. Limits with no Dilution
Lab Sample I.D.	971788A-12	971788A-13	971788A-14	
Method Blank I.D.	PBLK81	PBLK81	PBLK81	
Quant. Factor	5.56	1.12	11.2	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	U	U	U	33
Aroclor-1254	240	190	940	33
Aroclor-1260	90.J	71.	U	33
Date Received	07/31/97	07/31/97	07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/12/97	08/09/97	08/12/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE GC-1.5
7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

Soil

All values are ug/Kg dry weight basis.

ient Sample I.D.	B-19	B-24	B-18	Quant. Limits with no Dilution
ab Sample I.D.	971788A-15	971788A-17	971788A-18	
thod Blank I.D.	PBLK81	PBLK81	PBLK81	
ant. Factor	1.08	55.6	1.14	
clor-1016	U	U	U	33
clor-1221	U	U	U	67
oclor-1232	U	U	U	33
roclor-1242	U	U	U	33
oclor-1248	U	2600	U	33
oclor-1254	20.J	6100	U	33
roclor-1260	U	U	U	33
e Received	07/31/97	07/31/97	07/31/97	
e Extracted	08/04/97	08/04/97	08/04/97	
ate Analyzed	08/09/97	08/12/97	08/09/97	

Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE GC-1.6 Soil
7097-1788A
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	TPVII E			Quant. Limits with no Dilution
Lab Sample I.D.	971788A-20			
Method Blank I.D.	PBLK81			
Quant. Factor	21.0			
Aroclor-1016	U			33
Aroclor-1221	U			67
Aroclor-1232	U			33
Aroclor-1242	U			33
Aroclor-1248	U			33
Aroclor-1254	1300			33
Aroclor-1260	U			33
Date Received	07/31/97			
Date Extracted	08/04/97			
Date Analyzed	08/12/97			

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

ORGANICS APPENDIX

U - Indicates that the compound was analyzed for but not detected.

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

N - Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on tabular result sheet.

S - Estimated due to surrogate outliers.

X - Matrix spike compound.

(1) - Cannot be separated.

(2) - Decomposes to azobenzene. Measured and calibrated as azobenzene.

A - This flag indicates that a TIC is a suspected aldol condensation product.

E - Indicates that it exceeds calibration curve range.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

C - Confirmed by GC/MS.

T - Compound present in TCLP blank.

P - This flag is used for a pesticide/aroclor target analyte when there is a greater than 25 percent difference for detected concentrations between the two GC columns (see Form X).

STATE CERTIFICATIONS

In some instances it may be necessary for environmental data to be reported to a regulatory authority with reference to a certified laboratory. For your convenience, the laboratory identification numbers for the AEN-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

AEN-Connecticut
Certification Summary (as of August 1997)

State	Responsible Agency	Certification	Lab Number
Connecticut	Department of Health Services	Drinking Water, Wastewater	PH-0497
Maine	Department of Human Services	Wastewater	CT023
Massachusetts	Department of Environmental Protection	Potable/Non-Potable Water	CT023
New Hampshire	Department of Environmental Services	Drinking Water, Wastewater	2528
New Jersey	Department of Environmental Protection	Drinking Water, Wastewater	46410
New York	Department of Health	CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste	10602
North Carolina	Division of Environmental Management	Wastewater	388
North Dakota	Department of Health and Consolidated Laboratories	Non-Potable/Potable Hazardous Waste	R-138
Oklahoma	Department of Environmental Quality	General Water Quality/ Sludge Testing	9614
Rhode Island	Department of Health	Chemistry...Non-Potable Water and Wastewater	A43
Washington	Department of Ecology	Wastewater/ Hazardous Waste	C231
West Virginia	Division of Environmental Protection	Wastewater/ Hazardous Waste	263

7097-1788A
GERAGHTY & MILLER
SAMPLE SUMMARY

E T ID	LAB ID	MATRIX	DATE COLLECTED	DATE RECEIVED
2	971788A-01	SOIL	07/25/97	07/26/97
C 2597	971788A-02	WATER	07/25/97	07/26/97
072597	971788A-03	WATER	07/25/97	07/26/97
(BCOMP)	971788A-04	SOIL	07/29/97	07/30/97
1(SIDE)	971788A-05	SOIL	07/29/97	07/30/97
1 BTM)	971788A-06	SOIL	07/29/97	07/30/97
II W	971788A-07	SOIL	07/29/97	07/30/97
I N	971788A-08	SOIL	07/29/97	07/30/97
I' BTM	971788A-09	SOIL	07/29/97	07/30/97
2	971788A-10	WATER	07/29/97	07/30/97
4	971788A-11	SOIL	07/30/97	07/31/97
5	971788A-12	SOIL	07/30/97	07/31/97
)	971788A-13	SOIL	07/30/97	07/31/97
)	971788A-14	SOIL	07/30/97	07/31/97
9	971788A-15	SOIL	07/30/97	07/31/97
7	971788A-16	SOIL	07/30/97	07/31/97
4	971788A-17	SOIL	07/30/97	07/31/97
3	971788A-18	SOIL	07/30/97	07/31/97
3	971788A-19	SOIL	07/30/97	07/31/97
:I E	971788A-20	SOIL	07/30/97	07/31/97

IEA-CT ANALYTICAL SUMMARY

ent ID: B-14, B-15, B-18, B-19, B-20, B-24, B-27, B-28, B-30, FB 072597, FB-2, GP-1(BTM), GP-1(SIDE), GP-2, GP1(SBCOMP), TB 072597, TPVII BTM, TPVII E, TPVII N, TPVII W

ob Number: 7097-1788A

ate: 8/29/97

y	Matrix	Analysis	Description
1	None	DISK	Diskette Prep
0	SOIL	BN-N8270B-PAH	PAH's
	SOIL	PCB-N8081	PCB's
	SOIL	VOA-N8021-MISC	Miscellaneous 8021 V
2	WATER	BN-N8270B-PAH	PAH's
2	WATER	PCB-N8081	PCB's
2	WATER	VOA-N8021-MISC	Miscellaneous 8021 V

Project Number NY...2. 00.. 00..

Project Location WESTBURY, NY (NYU LABS)

Laboratory IEA

Sampler(s)/Affiliation G. NETUSCHIL ANDY GILMORE / GERAGHTY & MILLER, INC.

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	BN-PAH PCB GL250 UNP	~~GN~~ VOA-TCL SEPTAG0 UNP	BN-PAH PCB GL1000 UNP	VOA-TCL VOAVIAL UNP						TOTAL
GP-2	S	7/25/97	01	1									1
GP-2	S	7/25/97	01		1								1
FB-7/25/97	L	7/25/97	02			(2) ~~3~~	2	(1) GL REC BROKEN DC 7-26-97					5
TB-7/25/97	L	7/25/97	03				2						2

Passed Rad Screen DC 7-26-97 4°C

Sample Code: L = Liquid; S = Solid; A = Air

7097-178YA

Total No. of Bottles/Containers: 9

Relinquished by: Glen Netuschil Received by:	Organization: Geraghty & Miller Organization:	Date 7/25/97 Time 4:45PM Date / / Time	Seal Intact? Yes No N/A
Relinquished by: Received by: Darlyn Colon	Organization: Organization: AEN	Date / / Time Date 7/26/97 Time 10:00	Seal Intact? (Yes) No N/A

Special Instructions/Remarks:

Delivery Method: ☐ In Person ☒ Common Carrier FEDEX (SPECIFY) ☐ Lab Courier ☐ Other ______ (SPECIFY)

Project Number N10962001

Project Location NY4

Laboratory AEN

Sampler(s)/Affiliation John Burke GeM

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	2 oz glass wide mouth jar VOC 8021	8 oz glass jar PAH	8 oz glass jar PCB	8 oz glass jar PCB + PAH	40 ml vials with preserved VOC 8021	1L amber glass PCB PAH				TOTAL
GP-1 (SB comp)	S	7/29/97	04	1	1								2
GP-1 (Side)	S	7/29/97	05			1							1
GP-1 (bottom)	S	7/29/97	06			1							1
TP VII West	S	7/29/97	07	1			1						2
TP VII North	S	7/29/97	08	1			1						2
TP VII Bottom	S	7/29/97	09	1			1	#1/3					2
EB-2	W	7/29/97	10					2	4				6

Passed Rad Screen 7-30-97

Sample Code: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 16

				Seal Intact?
Relinquished by:	Organization: G+M	Date 7/29/97	Time 1825	Yes No N/A
Received by:	Organization: AEN	Date 7/30/97	Time 10:00	
Relinquished by:	Organization:	Date / /	Time	Seal Intact?
Received by:	Organization:	Date / /	Time	Yes No N/A

Special Instructions/Remarks:

Delivery Method: ☐ In Person ☒ Common Carrier Fedex (SPECIFY) ☐ Lab Courier ☐ Other (SPECIFY)

...widemij company

Project Number 4Y0162.001

Project Location 425 MA (NYU)

Laboratory IEA AEN, Monroe

Sampler(s)/Affiliation John Burke
Andy Gilmore

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	2oz. Glass UNP 8021	8 oz. glass UNP PCB	2oz. glass UNP TCL VOC	8 oz. Glass UNP TCL-BNA TAL METALS	8 oz. glass UNP PAH PCB	8 oz. Glass UNP PAH	8 oz glass UNP PCB	8 oz. Glass UNP VOC PAH	TOTAL
B-14	S	7-30-97	11							1		1
B-15	S		12							1		1
B-20	S		13							1		1
B-30	S		14							1		1
B-19	S	↓	15				1					1
~~B-22~~	~~S~~	AG										
B-27	S		16	1			AG	1				2
B-24	S		17	1			1					2
B-18	S		18				1					1
B-28	S		19								1	1 K
TP VII East	S	↓	20	1	1							2
TP VII South	S			1	1	1	1					4
		AEN # 7097-1788A										

no VO
relinquished to
J Burke
7/31/97

Sample Code: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 17

					Seal Intact?
Relinquished by:		Organization: Geraghty & Miller	Date 7/30/97	Time 1900	Yes No N/A
Received by:		Organization: AENET	Date 7/31/97	Time 1030	
Relinquished by:		Organization:	Date / /	Time	Seal Intact?
Received by:		Organization:	Date / /	Time	Yes No N/A

Special Instructions/Remarks: Passed Flat Screen

Delivery Method: ☐ In Person ☒ Common Carrier FED-EX (SPECIFY) ☐ Lab Courier ☐ Other (SPECIFY)

USA Airbill

Tracking Number 4456032700

13-82648 · 00141/00500

7/24/97

John Burke Phone (516) 249-7600

Dept/Floor/Suite/Room

RAGHTY AND MILLER

DURYEA RD 1ST FL

LVILLE State NY Zip 11747

Internal Billing Reference Information

Phone (203) 261-4454

Dept/Floor/Suite/Room

(If location, print FedEx address here)

State Zip

HOLD at FedEx Location check here
Hold Weekday (Not available with FedEx First Overnight) ☐ Hold Saturday (Not available at all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)

For Saturday Delivery check here
(Extra Charge. Not available to all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)

4456032700

4a Express Package Service *Packages under 150 lbs.* Delivery commitment may be later in some areas.

☒ FedEx Priority Overnight (Next business morning) ☐ FedEx Standard Overnight (Next business afternoon) ☐ FedEx 2Day* (Second business day)

☐ FedEx First Overnight (Earliest next business morning delivery to select locations)

*FedEx Letter Rate not available. Minimum charge: One pound FedEx 2Day rate.

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

☐ FedEx Overnight Freight (Next business-day service for any distance) ☐ FedEx 2Day Freight (Second business-day service for any distance) ☐ FedEx Express Saver Freight (Up to 3 business-day service based upon distance)

(Call for delivery schedule. See back for detailed descriptions of freight products.)

5 Packaging ☐ FedEx Letter ☐ FedEx Pak (Declared value limit $500) ☐ FedEx Box ☐ FedEx Tube ☒ Other Pkg.

6 Special Handling

Does this shipment contain dangerous goods? ☐ Yes (As per attached Shipper's Declaration) ☐ Yes (Shipper's Declaration not required)

☐ Dry Ice Dry Ice, 9, UN 1845 III ____ x ____ kg. 904 (Dangerous Goods Shipper's Declaration not required)

CA ☐ Cargo Aircraft Only

7 Payment

Bill to: ☒ Sender (Account no. in section 1 will be billed) ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

(Enter FedEx account no. or Credit Card no. below)

Total Packages	Total Weight	Total Declared Value*	Total Charges
1	44	$ 5000.00	$

*When declaring a value higher than $100 per shipment, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY section for further information.

Credit Card Auth.

8 Release Signature

7/30/97 10:00

Your signature authorizes Federal Express to deliver this shipment without obtaining a signature and agrees to indemnify and hold harmless Federal Express from any resulting claims.

272

Questions? Call 1-800-Go-FedEx (1-800-463-3339)

WCSL 0297 Rev. Date 6/96 PART #147956 ©1994-96 FedEx PRINTED IN U.S.A.

USA Airbill

Tracking Number 453687056 4

Recipient's Copy

13-82648 00074/00500

7/25/97

GLENN METUSCHIL Phone (516) 249-7600

Dept/Floor/Suite/Room

ERAGHTY AND MILLER

DURYEA RD 1ST FL

LVILLE State NY Zip 11747

nal Billing Reference Information NY0962.001.008

TEPHANIE PLUNKETT Phone (203) 261-4458

Dept/Floor/Suite/Room

IEA INC.

00 MONROE TURNPIKE

FedEx location, print FedEx address here)

MONROE State CT Zip 06468

OLD at FedEx Location check here
ld Weekday (Not available with FedEx First Overnight) ☐ Hold Saturday (Not available at all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)

For Saturday Delivery check here
☒ (Extra Charge. Not available to all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)

4536870564

4a Express Package Service *Packages under 150 lbs.* Delivery commitment may be later in some areas.

☒ FedEx Priority Overnight (Next business morning) ☐ FedEx Standard Overnight (Next business afternoon) ☐ FedEx 2Day* (Second business day)

☐ NEW FedEx First Overnight (Earliest next business morning delivery to select locations) (Higher rates apply)

*FedEx Letter Rate not available. Minimum charge: One pound FedEx 2Day rate.

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

☐ FedEx Overnight Freight (Next business-day service for any distance) ☐ FedEx 2Day Freight (Second business-day service for any distance) ☐ FedEx Express Saver Freight (Up to 3 business-day service based upon distance)

(Call for delivery schedule. See back for detailed descriptions of freight products.)

5 Packaging ☐ FedEx Letter ☐ FedEx Pak (Declared value limit $500) ☐ FedEx Box ☐ FedEx Tube ☒ Other Pkg.

6 Special Handling

Does this shipment contain dangerous goods? ☐ Yes (As per attached Shipper's Declaration) ☐ Yes (Shipper's Declaration not required)

☐ Dry Ice Dry Ice, 9, UN 1845 III ____ x ____ kg. 904 (Dangerous Goods Shipper's Declaration not required)

CA ☐ Cargo Aircraft Only

7 Payment ☐ Obtain Recipient FedEx Account No.

Bill to: ☒ Sender (Account no. in section 1 will be billed) ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

(Enter FedEx account no. or Credit Card no. below)

Total Packages	Total Weight	Total Declared Value*	Total Charges
		$ .00	$

*When declaring a value higher than $100 per shipment, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY section for further information.

Credit Card Auth.

8 Release Signature

Your signature authorizes Federal Express to deliver this shipment without obtaining a signature and agrees to indemnify and hold harmless Federal Express from any resulting claims.

272

Questions? Call 1-800-Go-FedEx (1-800-463-3339)

Rev. Date 6/96 PART #147956 ©1994-96 FedEx PRINTED IN U.S.A. CODE 3/97

AEN Connecticut

Internal Chain-of-Custody

Client: _____

AEN Job #: 7087-735A

Custody Seal: present / absent
intact / not intact

Airbill #: FE 445603270O

Sample #s: 04-10

Field C-O-C: present / absent

Locations: 34, 36, A-7, 8

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
5-9		[signature]	7/30	1600	PCB ext	[signature]		7/30	2300
10		[signature]	7/31	1500	EXTRACT	CSCD			
4-9		[signature]	8/04	9:00	BnA	D. Vark		8/05	9:00
10		D. Vark	8/04	9:00	BnA	[signature]			

AEN Form# SMF00501.CT

Internal Chain-of-Custody

Client: GM

AEN Job #: 7097-1788A

Custody Seal: present / absent
intact / not intact

Airbill #: FE

Sample #s: 01-03

Field C-O-C: present / absent

Locations: 8, 36, 34, A1

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1,2		[signature]	7/28	1530	EXTRACT	[signature]		7/28	2300
.2		[signature]	7/29	15:30	EXTRACT	USED			
2		D. Vanek	7/30	9:00	BNA	used			
01		D. Vanek	7/30	9:00	BNA.	D. Vanek		7/31	9:00

AEN Form# SMF00501.CT

AEN C[illegible]ctio

Internal Chain-of-Custody

Client: G&M

AEN Job #: 7097-1788A

Custody Seal: present / absent
intact / not intact

Airbill #: F.E. 4455032674

Sample #s: 11-20

Field C-O-C: present / absent

Locations: A7,34

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
15-19		D. Vant	08/04	9100	PCNA	D. Vant	✓	8/05	9100
11-15,17,18,20			8/4	1500	EXTRACT			8/4	23:30

AEN Form# SMF00501.CT

IEA, Inc. GC-GC/MS Extract Chain-of-Custody

Fraction: (BNA) Pesticide-PCB/ Herbicide/ O/P Pest/ Other (Circle One)

CLIENT : G&W

JOB NO(S).: 1788A

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
2	7-31	4:30	UAM	29					
10	08-07	17:00	DV	29					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
2,10	8/15/97	1100	AN	M.M	8/15/97	1300	29	M.M
7,8,9,11,12,17	8/20/97	1400	AN	M.M	8/20/97	1400	29	M.M
1	8/21/97	1000	AN	M.M	8/21/97	1400	29	M.M
17	8/25/97	6 pm	AN	[illegible]	8/25/97	8:30pm	29	[illegible]

Codes: SC = Screening AN = Analysis

Verified by: _____ Date: ___/___/___

wz SMF00200.CT

IEA Inc.

GC-GC/MS Extract Chain-of-Custody

Fraction: (Pesticide-PCB) / Herbicide / O/P Pest / Other
(Circle one)

CLIENT : J+M

JOB NO(s). : 1788A

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
1	7/28/97	2300	EdC	50					
2	7/29	22:30	Ø	50					
5-9	7/30/97	2300	EdC	50					
10	7/31/97	23:15	Ø	50					
11-18, 20	8/4/97	2300	Ø	50					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
1	7/29/97	1500	AN	DM	7/29/97	2100	50	DM
2	7/30/97	15:30	AN	D. Humbert	7/30/97	16:00	50	D. Humbert
5-9	7/31/97	16:00	AN	D. Humbert	7/31/97	17:20	50	D. Humbert
10	8/25/97	16:00	AN	D. Humbert	8/25/97	17:00	50	D. Humbert
11-15, 17, 18, 20	8/8/97	14:30	AN	EdC	8/8/97	1500	50	EdC
~~11-15, 17, 20~~	~~8/8~~ DM	8/8/97						
12, 14, 17, 20	8/11/97	1530	AN	DM	8/11/97	1730	50	DM
11-15, 17, 18, 20	8/13/97	10:00	AN	JR	08/13/97	10:30	50	JR

Codes: SC = Screening AN = Analysis

Verified by : K Matt

Date 8/27/97

Form: SMF00200.CT

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	0070-487-01 MS/MSD
Project:		Sample:	
Report Date:	08/06/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/01/97	Dilution Factor:	1
By:	GAM		

Number	Compound	MS (%)	MSD (%)	RPD (%)
1	Benzene	92	90	1.1
2	n-Butylbenzene	71	74	4.1
3	s-Butylbenzene	79	81	1.2
4	t-Butylbenzene	81	81	0.0
5	Ethylbenzene	87	87	0.0
6	Isopropylbenzene	87	87	0.0
7	Isopropyltoluene	81	87	7.1
8	Methyl-t-butylether	92	90	2.2
9	Naphthalene	62	68	9.2
10	n-Propylbenzene	87	84	3.5
11	Toluene	89	88	1.1
12	1,2,4-Trimethylbenzene	81	83	2.4
13	1,3,5-Trimethylbenzene	85	83	2.4
14	Xylenes (Total)	89	88	1.1
Surrogate Standard Recovery:				
	1,4-Difluorobenzene	90	90	0.0

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-487-01, 0070-487-02

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	Cont Cal
Project:		Sample:	
Report Date:	08/07/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/05/97	Dilution Factor:	1
By:	GAM		

Number	Compound	Spike ug/kg(dry)	Result ug/kg(dry)	Limits ug/kg(dry)
1	Benzene	50	48	42-58
2	n-Butylbenzene	50	42	42-58
3	s-Butylbenzene	50	46	42-58
4	t-Butylbenzene	50	47	42-58
5	Ethylbenzene	50	47	42-58
6	Isopropylbenzene	50	47	42-58
7	Isopropyltoluene	50	45	42-58
8	Methyl-t-butylether	50	50	42-58
9	Naphthalene	25	23	21-29
10	n-Propylbenzene	50	47	42-58
11	Toluene	50	48	42-58
12	1,2,4-Trimethylbenzene	50	47	42-58
13	1,3,5-Trimethylbenzene	50	47	42-58
14	Xylenes (Total)	50	47	42-58

Surrogate Standard Recovery:

1,4-Difluorobenzene 97 %

Comments:

PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-492-01

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
1	SBLKMH	73	66	95	30	44	66			0
2	SBLKMHFMS	74	73	102	30	45	80			0
03	FB-2	60	59	83	24	35	60			0
4	SBLKYH	63	59	88	25	35	56			0
5	SBLKYHFMS	71	70	99	27	39	77			0
06	FB 072597	52	54	82	25	34	55			0
07										
8										
9										
10										
11										
2										
3										
14										
5										
5										
7										
18										
9										
0										
1										
22										
3										
4										
25										
26										
7										
8										
29										
0										

QC LIMITS

S1	(NBZ) = Nitrobenzene-d5	(35-114)	
S2	(FBP) = 2-Fluorobiphenyl	(43-116)	
S3	(TPH) = Terphenyl-d14	(33-141)	
S4	(PHL) = Phenol-d5	(10-110)	
S5	(2FP) = 2-Fluorophenol	(21-110)	
S6	(TBP) = 2,4,6-Tribromophenol	(10-123)	
S7	(2CP) = 2-Chlorophenol-d4	(-)	(advisory)
S8	(DCB) = 1,2-Dichlorobenzene-d4	(-)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV-1

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Matrix Spike - EPA Sample No.: SBLKMH _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Naphthalene	40	0	32	80	21-133
2-Methylnaphthalene	40	0	32	80	01-127
Acenaphthylene	40	0	34	85	33-145
Acenaphthene	40	0	35	88	47-121
Fluorene	40	0	38	95	59-120
Phenanthrene	40	0	40	100	54-133
Anthracene	40	0	39	98	27-137
Fluoranthene	40	0	40	100	26-115
Pyrene	40	0	40	100	52-143
Benzo(a)anthracene	40	0	42	105	33-168
Chrysene	40	0	40	100	17-158
Benzo(b)fluoranthene	40	0	43	108	24-159
Benzo(k)fluoranthene	40	0	33	82	11-162
Benzo(a)pyrene	40	0	39	98	17-163
Indeno(1,2,3-cd)pyrene	40	0	39	98	01-171
Dibenzo(a,h)anthracene	40	0	39	98	01-227
Benzo(g,h,i)perylene	40	0	38	95	01-219

Column to be used to flag recovery with an asterisk

Values outside of QC limits.

Spike Recovery: 0 out of 17 outside limits

COMMENTS: _____

_____

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Matrix Spike - EPA Sample No.: SBLKIH Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3300	0	2500	76	26- 90
2-Chlorophenol	3300	0	2600	79	25-102
1,4-Dichlorobenzene	1700	0	1300	76	28-104
N-Nitroso-di-n-prop.(1)	1700	0	1300	76	41-126
1,2,4-Trichlorobenzene	1700	0	1300	76	38-107
4-Chloro-3-methylphenol	3300	0	2400	73	26-103
Acenaphthene	1700	0	1200	70	31-137
4-Nitrophenol	3300	0	2600	79	11-114
2,4-Dinitrotoluene	1700	0	1200	70	28- 89
Pentachlorophenol	3300	0	2700	82	17-109
Pyrene	1700	0	1300	76	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3300	2600	79	4	35	26- 90
2-Chlorophenol	3300	2600	79	0	50	25-102
1,4-Dichlorobenzene	1700	1200	70	8	27	28-104
N-Nitroso-di-n-prop.(1)	1700	1400	82	8	38	41-126
1,2,4-Trichlorobenzene	1700	1400	82	8	23	38-107
4-Chloro-3-methylphenol	3300	2700	82	12	33	26-103
Acenaphthene	1700	1400	82	16	19	31-137
4-Nitrophenol	3300	3400	103	26	50	11-114
2,4-Dinitrotoluene	1700	1600	94*	29	47	28- 89
Pentachlorophenol	3300	3400	103	23	47	17-109
Pyrene	1700	1600	94	21	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits.

RPD: 0 out of 11 outside limits
Spike Recovery: 1 out of 22 outside limits

COMMENTS: _____

3D

SOIL SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Matrix Spike - EPA Sample No.: SBLKAH Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	SPIKE CONCENTRATION (ug/Kg)	SPIKE % REC #	QC. LIMITS REC.
Naphthalene	1300	0	1200	92	21-133
2-Methylnaphthalene	1300	0	1200	92	01-127
Acenaphthylene	1300	0	1100	85	33-145
Acenaphthene	1300	0	1200	92	47-121
Fluorene	1300	0	1300	100	59-120
Phenanthrene	1300	0	1200	92	54-133
Anthracene	1300	0	1200	92	27-137
Fluoranthene	1300	0	1200	92	26-115
Pyrene	1300	0	1200	92	52-143
Benzo(a)anthracene	1300	0	1300	100	33-168
Chrysene	1300	0	1300	100	17-158
Benzo(b)fluoranthene	1300	0	1300	100	24-159
Benzo(k)fluoranthene	1300	0	1200	92	11-162
Benzo(a)pyrene	1300	0	1200	92	17-163
Indeno(1,2,3-cd)pyrene	1300	0	1300	100	01-171
Dibenzo(a,h)anthracene	1300	0	1300	100	01-227
Benzo(g,h,i)perylene	1300	0	1200	92	01-219

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 17 outside limits

COMMENTS: _____

FORM III SV-2

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Matrix Spike - EPA Sample No.: SBLKYH

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Naphthalene	40	0	31	78	21-133
2-Methylnaphthalene	40	0	31	78	01-127
Acenaphthylene	40	0	32	80	33-145
Acenaphthene	40	0	33	82	47-121
Fluorene	40	0	36	90	59-120
Phenanthrene	40	0	38	95	54-133
Anthracene	40	0	37	92	27-137
Fluoranthene	40	0	38	95	26-115
Pyrene	40	0	38	95	52-143
Benzo(a)anthracene	40	0	41	102	33-168
Chrysene	40	0	39	98	17-158
Benzo(b)fluoranthene	40	0	44	110	24-159
Benzo(k)fluoranthene	40	0	32	80	11-162
Benzo(a)pyrene	40	0	38	95	17-163
Indeno(1,2,3-cd)pyrene	40	0	38	95	01-171
Dibenzo(a,h)anthracene	40	0	38	95	01-227
Benzo(g,h,i)perylene	40	0	38	95	01-219

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 17 outside limits

COMMENTS: _____

FORM III SV-1

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKMH

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Lab File ID: >H3636 Lab Sample ID: SBLKMH

Instrument ID: HP5970H Date Extracted: 08/04/97

Matrix: (soil/water) WATER Date Analyzed: 08/15/97

Level: (low/med) LOW Time Analyzed: 1225

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLKMHFMS	SBLKMHFMS	>H3637	08/15/97
02	FB-2	971788A-10	>H3638	08/15/97
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

FORM IV SV

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKIH

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Lab File ID: >H3639 Lab Sample ID: SBLKIH

Instrument ID: HP5970H Date Extracted: 08/04/97

Matrix: (soil/water) SOIL Date Analyzed: 08/15/97

Level: (low/med) LOW Time Analyzed: 1451

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLKIHMS	SBLKIHMS	>H3640	08/15/97
02	SBLKIHMSD	SBLKIHMSD	>H3641	08/15/97
03	GP1(SBCOMP)	971788A-04	>H3650	08/19/97
04	TPVII W	971788A-07	>H3651	08/19/97
05	TPVII N	971788A-08	>H3652	08/19/97
06	TPVII BTM	971788A-09	>H3653	08/19/97
07	B-19	971788A-15	>H3654	08/19/97
08	B-27	971788A-16	>H3655	08/19/97
09	B-18	971788A-18	>H3657	08/19/97
10	TPVII WRE	971788A-07RE	>H3662	08/20/97
11	TPVII NRE	971788A-08RE	>H3663	08/20/97
12	TPVII BTMRE	971788A-09RE	>H3664	08/20/97
13	B-27RE	971788A-16RE	>H3665	08/20/97
14	B-28	971788A-19	>H3667	08/20/97
15	B-24	971788A-17	>H3697	08/22/97
16	B-24DL	971788A-17DL	>H3703	08/22/97
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

FORM IV SV

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKAH

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Lab File ID: >H3642 Lab Sample ID: SBLKAH

Instrument ID: HP5970H Date Extracted: 07/30/97

Matrix: (soil/water) SOIL Date Analyzed: 08/15/97

Level: (low/med) LOW Time Analyzed: 1718

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLKAHFMS	SBLKAHFMS	>H3643	08/15/97
02	GP-2	971788A-01	>H3696	08/22/97
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

FORM IV SV

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKYH

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Lab File ID: >H3645 Lab Sample ID: SBLKYH

Instrument ID: HP5970H Date Extracted: 07/30/97

Matrix: (soil/water) WATER Date Analyzed: 08/15/97

Level: (low/med) LOW Time Analyzed: 1944

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLKYHFMS	SBLKYHFMS	>H3646	08/15/97
02	FB 072597	971788A-02	>H3648	08/15/97
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Lab File ID: H3628 DFTPP Injection Date:08/14/97

Instrument ID: HP5970H DFTPP Injection Time:1014

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	54.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Present	68.7
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	40.0 - 60.0% of mass 198	43.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	17.9
365	Greater than 1.0% of mass 198	1.52
441	Present, but less than mass 443	7.7
442	40.0 - 110.0% of mass 198	56.3
443	17.0 - 23.0% of mass 442	10.9 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD010	SSTD010	>H3629	08/14/97	1100
02	SSTD025	SSTD025	>H3630	08/14/97	1149
03	SSTD040	SSTD040	>H3631	08/14/97	1238
04	SSTD060	SSTD060	>H3632	08/14/97	1326
05	SSTD080	SSTD080	>H3633	08/14/97	1415
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Lab File ID: H3634 DFTPP Injection Date:08/15/97

Instrument ID: HP5970H DFTPP Injection Time:1037

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.4
68	Less than 2.0% of mass 69	0.2 (0.3)1
69	Present	69.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	46.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	16.8
365	Greater than 1.0% of mass 198	1.43
441	Present, but less than mass 443	6.1
442	40.0 - 110.0% of mass 198	43.7
443	17.0 - 23.0% of mass 442	8.4 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD025	SSTD025	>H3634	08/15/97	1037
02	SBLKMH	SBLKMH	>H3636	08/15/97	1225
03	SBLKMHFMS	SBLKMHFMS	>H3637	08/15/97	1314
04	FB-2	971788A-10	>H3638	08/15/97	1402
05	SBLKIH	SBLKIH	>H3639	08/15/97	1451
06	SBLKIHMS	SBLKIHMS	>H3640	08/15/97	1540
07	SBLKIHMSD	SBLKIHMSD	>H3641	08/15/97	1629
08	SBLKAH	SBLKAH	>H3642	08/15/97	1718
09	SBLKAHFMS	SBLKAHFMS	>H3643	08/15/97	1807
10	SBLKYH	SBLKYH	>H3645	08/15/97	1944
11	SBLKYHFMS	SBLKYHFMS	>H3646	08/15/97	2033
12	FB 072597	971788A-02	>H3648	08/15/97	2210
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Lab File ID: H3649 DFTPP Injection Date: 08/19/97

Instrument ID: HP5970H DFTPP Injection Time: 0914

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.4
68	Less than 2.0% of mass 69	0.3 (0.5)1
69	Present	69.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.5
197	Less than 1.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	17.1
365	Greater than 1.0% of mass 198	1.44
441	Present, but less than mass 443	6.0
442	40.0 - 110.0% of mass 198	41.3
443	17.0 - 23.0% of mass 442	7.7 (18.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD025	SSTD025	>H3649	08/19/97	0914
02	GP1(SBCOMP)	971788A-04	>H3650	08/19/97	1142
03	TPVII W	971788A-07	>H3651	08/19/97	1233
04	TPVII N	971788A-08	>H3652	08/19/97	1321
05	TPVII BTM	971788A-09	>H3653	08/19/97	1410
06	B-19	971788A-15	>H3654	08/19/97	1459
07	B-27	971788A-16	>H3655	08/19/97	1548
08	B-18	971788A-18	>H3657	08/19/97	1725
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Lab File ID: H3661 DFTPP Injection Date:08/20/97

Instrument ID: HP5970H DFTPP Injection Time:1123

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	58.1
68	Less than 2.0% of mass 69	0.9 (1.2)1
69	Present	73.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	48.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	16.6
365	Greater than 1.0% of mass 198	1.47
441	Present, but less than mass 443	5.8
442	40.0 - 110.0% of mass 198	43.0
443	17.0 - 23.0% of mass 442	7.9 (18.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD025	SSTD025	>H3661	08/20/97	1123
02	TPVII WRE	971788A-07RE	>H3662	08/20/97	1217
03	TPVII NRE	971788A-08RE	>H3663	08/20/97	1305
04	TPVII BTMRE	971788A-09RE	>H3664	08/20/97	1353
05	B-27RE	971788A-16RE	>H3665	08/20/97	1442
06	B-28	971788A-19	>H3667	08/20/97	1618
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Lab File ID: H3693 DFTPP Injection Date:08/22/97

Instrument ID: HP5970H DFTPP Injection Time:0720

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.1
68	Less than 2.0% of mass 69	0.7 (0.9)1
69	Present	73.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	47.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	16.0
365	Greater than 1.0% of mass 198	1.03
441	Present, but less than mass 443	5.2
442	40.0 - 110.0% of mass 198	40.8
443	17.0 - 23.0% of mass 442	7.9 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD025	SSTD025	>H3693	08/22/97	0720
02	GP-2	971788A-01	>H3696	08/22/97	1038
03	B-24	971788A-17	>H3697	08/22/97	1126
04	B-24DL	971788A-17DL	>H3703	08/22/97	1720
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Instrument ID: HP5970H Calibration Date(s): 08/14/97 _____

Calibration Times: 1100 1415

LAB FILE ID: RRF10 = >H3629 RRF25 = >H3630
RRF40 = >H3631 RRF60 = >H3632 RRF80 = >H3633

COMPOUND		RRF10	RRF25	RRF40	RRF60	RRF80	$\overline{RRF}$	% RSD	
Phenol	*	2.046	1.809	1.847	1.835	1.732	1.854	6.3	*
bis(2-Chloroethyl)ether	*	1.460	1.368	1.372	1.260	1.186	1.329	8.0	*
2-Chlorophenol	*	1.422	1.432	1.416	1.350	1.264	1.377	5.1	*
1,3-Dichlorobenzene	*	1.473	1.449	1.433	1.325	1.247	1.385	6.9	*
1,4-Dichlorobenzene	*	1.536	1.527	1.500	1.373	1.279	1.443	7.8	*
Benzyl alcohol	*	0.921	0.895	0.858	0.774	0.711	0.832	10.5	*
,2-Dichlorobenzene	*	1.468	1.455	1.409	1.270	1.101	1.341	11.6	*
2-Methylphenol	*	1.383	1.348	1.300	1.187	1.101	1.264	9.3	*
2,2'-oxybis(1-Chloropropane)	*	3.396	3.017	2.944	2.734	2.570	2.932	10.7	*
4-Methylphenol	*	1.488	1.406	1.330	1.181	1.032	1.287	14.2	*
N-Nitroso-di-n-propylamine	*	1.413	1.294	1.242	1.133	1.028	1.222	12.1	*
Hexachloroethane	*	0.752	0.734	0.728	0.643	0.530	0.677	13.7	*
Nitrobenzene	*	0.419	0.418	0.410	0.387	0.372	0.401	5.2	*
phorone	*	0.924	0.896	0.872	0.840	0.815	0.869	5.0	*
Nitrophenol	*	0.232	0.237	0.237	0.222	0.215	0.229	4.3	*
2,4-Dimethylphenol	*	0.360	0.380	0.370	0.351	0.338	0.360	4.5	*
Benzoic acid	*	0.196	0.237	0.255	0.267	0.273	0.246	12.6	*
bis(2-Chloroethoxy)methane	*	0.573	0.556	0.536	0.506	0.489	0.532	6.5	*
2,4-Dichlorophenol	*	0.307	0.314	0.303	0.285	0.273	0.296	5.7	*
1,2,4-Trichlorobenzene	*	0.323	0.322	0.312	0.292	0.276	0.305	6.7	*
Naphthalene	*	1.078	1.034	0.972	0.886	0.823	0.959	10.9	*
4-Chloroaniline	*	0.448	0.430	0.427	0.397	0.362	0.413	8.2	*
Hexachlorobutadiene	*	0.160	0.161	0.156	0.147	0.139	0.153	6.1	*
4-Chloro-3-methylphenol	*	0.368	0.378	0.368	0.348	0.333	0.359	5.1	*
-Methylnaphthalene	*	0.676	0.611	0.524	0.491	0.442	0.549	17.1	*L
Hexachlorocyclopentadiene	*	0.146	0.211	0.256	0.256	0.250	0.224	21.1	*L
2,4,6-Trichlorophenol	*	0.386	0.397	0.409	0.391	0.364	0.389	4.3	*
,4,5-Trichlorophenol	*	0.415	0.436	0.449	0.412	0.388	0.420	5.6	*
-Chloronaphthalene	*	1.155	1.160	1.153	1.078	0.997	1.109	6.4	*
2-Nitroaniline	*	0.523	0.538	0.547	0.525	0.501	0.527	3.3	*
Dimethylphthalate	*	1.437	1.482	1.467	1.383	1.310	1.416	5.0	*
cenaphthylene	*	2.019	1.988	1.933	1.791	1.646	1.875	8.3	*
,6-Dinitrotoluene	*	0.365	0.390	0.406	0.387	0.369	0.383	4.4	*
3-Nitroaniline	*	0.414	0.385	0.385	0.367	0.343	0.379	6.9	*
Acenaphthene	*	1.184	1.166	1.127	1.031	0.939	1.089	9.4	*
,4-Dinitrophenol	*	0.100	0.177	0.242	0.255	0.269	0.209	33.6	*L
-Nitrophenol	*	0.129	0.143	0.156	0.155	0.153	0.147	7.8	*

* Compounds with required minimum RRF and maximum %RSD values.

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Instrument ID: HP5970H Calibration Date(s): 08/14/97 _____

Calibration Times: 1100 1415

LAB FILE ID: RRF10 = >H3629 RRF25 = >H3630
RRF40 = >H3631 RRF60 = >H3632 RRF80 = >H3633

COMPOUND		RRF10	RRF25	RRF40	RRF60	RRF80	$\overline{RRF}$	% RSD	
Dibenzofuran	*	1.686	1.629	1.584	1.452	1.329	1.536	9.4	*
,4-Dinitrotoluene	*	0.509	0.544	0.576	0.549	0.535	0.543	4.4	*
iethylphthalate	*	1.572	1.541	1.556	1.429	1.295	1.479	7.9	*
4-Chlorophenyl-phenyl Ether	*	0.633	0.619	0.619	0.550	0.493	0.583	10.2	*
Fluorene	*	1.376	1.310	1.252	1.099	0.972	1.202	13.7	*
-Nitroaniline	*	0.465	0.478	0.489	0.475	0.469	0.475	1.9	*
,6-Dinitro-2-methylphenol	*	0.147	0.180	0.199	0.196	0.188	0.182	11.5	*
N-Nitrosodiphenylamine	*	0.545	0.525	0.505	0.460	0.413	0.490	10.8	*
4-Bromophenyl-phenylether	*	0.198	0.192	0.195	0.179	0.168	0.186	6.8	*
exachlorobenzene	*	0.235	0.231	0.237	0.220	0.208	0.226	5.4	*
entachlorophenol	*	0.132	0.147	0.158	0.152	0.149	0.148	6.5	*
Phenanthrene	*	1.136	1.099	1.053	0.964	0.887	1.028	9.9	*
nthracene	*	1.166	1.114	1.072	0.983	0.902	1.047	10.1	*
bazole	*	1.114	1.035	1.010	0.956	0.898	1.003	8.1	*
-n-butylphthalate	*	1.694	1.644	1.593	1.465	1.353	1.550	9.0	*
Fluoranthene	*	1.194	1.140	1.121	1.030	0.950	1.087	8.9	*
yrene	*	1.540	1.461	1.381	1.325	1.266	1.395	7.8	*
utylbenzylphthalate	*	0.949	0.951	0.911	0.910	0.855	0.915	4.3	*
3,3'-Dichlorobenzidine	*	0.412	0.425	0.375	0.371	0.325	0.382	10.3	*
Benzo(a)anthracene	*	1.275	1.239	1.187	1.103	1.045	1.170	8.1	*
hrysene	*	1.253	1.204	1.163	1.124	1.067	1.162	6.2	*
is(2-Ethylhexyl)phthalate	*	1.385	1.381	1.277	1.226	1.128	1.279	8.5	*
Di-n-octylphthalate	*	2.276	2.373	2.235	2.142	2.029	2.211	5.9	*
enzo(b)fluoranthene	*	1.232	1.306	1.264	1.394	1.240	1.287	5.2	*
enzo(k)fluoranthene	*	1.092	1.066	1.088	0.826	0.842	0.983	13.9	*
enzo(a)pyrene	*	1.090	1.138	1.134	1.078	1.030	1.094	4.1	*
Indeno(1,2,3-cd)pyrene	*	1.148	1.076	1.074	0.996	0.938	1.046	7.7	*
lbenz(a,h)anthracene	*	0.936	0.900	0.877	0.809	0.760	0.856	8.3	*
enzo(g,h,i)perylene	*	0.979	0.944	0.930	0.865	0.807	0.905	7.6	*
Nitrobenzene-D5	*	0.422	0.433	0.425	0.406	0.391	0.415	4.0	*
-Fluorobiphenyl	*	1.268	1.220	1.203	1.115	1.018	1.165	8.5	*
erphenyl-D14	*	0.708	0.700	0.683	0.660	0.634	0.677	4.5	*
henol-D5	*	1.831	1.828	1.811	1.700	1.618	1.758	5.4	*
2-Fluorophenol	*	1.104	1.149	1.183	1.139	1.101	1.135	3.0	*
2,4,6-Tribromophenol	*	0.174	0.181	0.201	0.190	0.187	0.187	5.4	*

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Instrument ID: HP5970H Calibration Date: 08/15/97 Time: 1037

Lab File ID: >H3634 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Phenol	1.854	1.932		4.2	20.0
bis(2-Chloroethyl)ether	1.329	1.516		14.1	
2-Chlorophenol	1.377	1.510		9.7	
1,3-Dichlorobenzene	1.385	1.533		10.7	
1,4-Dichlorobenzene	1.443	1.608		11.4	20.0
Benzyl alcohol	0.832	0.964		15.9	
1,2-Dichlorobenzene	1.341	1.545		15.2	
2-Methylphenol	1.264	1.453		15.0	
2,2'-oxybis(1-Chloropropane)	2.932	3.553		21.2	
4-Methylphenol	1.287	1.509		17.2	
N-Nitroso-di-n-propylamine	1.222	1.431	0.050	17.1	
Hexachloroethane	0.677	0.813		20.1	
Nitrobenzene	0.401	0.441		10.0	
Isophorone	0.869	0.945		8.7	
2-Nitrophenol	0.229	0.253		10.5	20.0
2,4-Dimethylphenol	0.360	0.394		9.4	
Benzoic acid	0.246	0.241		-2.0	
bis(2-Chloroethoxy)methane	0.532	0.580		9.0	
2,4-Dichlorophenol	0.296	0.326		10.1	20.0
1,2,4-Trichlorobenzene	0.305	0.336		10.2	
Naphthalene	0.959	1.074		12.0	
4-Chloroaniline	0.413	0.461		11.6	
Hexachlorobutadiene	0.153	0.167		9.2	20.0
4-Chloro-3-methylphenol	0.359	0.395		10.0	20.0
2-Methylnaphthalene	0.549	0.631		14.9	
Hexachlorocyclopentadiene	0.224	0.233	0.050	4.0	
2,4,6-Trichlorophenol	0.389	0.421		8.2	20.0
2,4,5-Trichlorophenol	0.420	0.460		9.5	
2-Chloronaphthalene	1.109	1.224		10.4	
2-Nitroaniline	0.527	0.580		10.0	
Dimethylphthalate	1.416	1.509		6.6	
Acenaphthylene	1.875	2.078		10.8	
2,6-Dinitrotoluene	0.383	0.408		6.5	
3-Nitroaniline	0.379	0.406		7.1	
Acenaphthene	1.089	1.197		9.9	20.0
2,4-Dinitrophenol	0.209	0.195	0.050	-6.7	
4-Nitrophenol	0.147	0.143	0.050	-2.7	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Instrument ID: HP5970H Calibration Date: 08/15/97 Time: 1037

Lab File ID: >H3634 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Dibenzofuran	1.536	1.682		9.5	
2,4-Dinitrotoluene	0.543	0.562		3.5	
Diethylphthalate	1.479	1.549		4.7	
4-Chlorophenyl-Phenyl Ether	0.583	0.643		10.3	
Fluorene	1.202	1.347		12.1	
4-Nitroaniline	0.475	0.451		-5.0	
4,6-Dinitro-2-methylphenol	0.182	0.199		9.3	
N-Nitrosodiphenylamine	0.490	0.555		13.3	20.0
4-Bromophenyl-phenylether	0.186	0.204		9.7	
Hexachlorobenzene	0.226	0.243		7.5	
Pentachlorophenol	0.148	0.160		8.1	20.0
Phenanthrene	1.028	1.127		9.6	
Anthracene	1.047	1.160		10.8	
Carbazole	1.003	1.108		10.5	
Di-n-butylphthalate	1.550	1.698		9.6	
Fluoranthene	1.087	1.201		10.5	20.0
Pyrene	1.395	1.508		8.1	
Butylbenzylphthalate	0.915	0.976		6.7	
3,3'-Dichlorobenzidine	0.382	0.401		5.0	
Benzo(a)anthracene	1.170	1.302		11.3	
Chrysene	1.162	1.227		5.6	
bis(2-Ethylhexyl)phthalate	1.279	1.393		8.9	
Di-n-octylphthalate	2.211	2.400		8.6	20.0
Benzo(b)fluoranthene	1.287	1.290		0.2	
Benzo(k)fluoranthene	0.983	1.129		14.8	
Benzo(a)pyrene	1.094	1.164		6.4	20.0
Indeno(1,2,3-cd)pyrene	1.046	1.122		7.3	
Dibenz(a,h)anthracene	0.856	0.908		6.1	
Benzo(g,h,i)perylene	0.905	0.950		5.0	
Nitrobenzene-D5	0.415	0.448		8.0	
2-Fluorobiphenyl	1.165	1.297		11.3	
Terphenyl-D14	0.677	0.726		7.2	
Phenol-D5	1.758	1.968		11.9	
2-Fluorophenol	1.135	1.210		6.6	
2,4,6-Tribromophenol	0.187	0.186		-0.5	

(1) Cannot be separated from Diphenylamine

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Instrument ID: HP5970H Calibration Date: 08/19/97 Time: 0914

Lab File ID: >H3649 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Phenol	1.854	1.620		-12.6	20.0
bis(2-Chloroethyl)ether	1.329	1.307		-1.7	
2-Chlorophenol	1.377	1.304		-5.3	
1,3-Dichlorobenzene	1.385	1.325		-4.3	
1,4-Dichlorobenzene	1.443	1.408		-2.4	20.0
Benzyl alcohol	0.832	0.782		-6.0	
1,2-Dichlorobenzene	1.341	1.332		-0.7	
2-Methylphenol	1.264	1.298		2.7	
2,2'-oxybis(1-Chloropropane)	2.932	3.091		5.4	
4-Methylphenol	1.287	1.337		3.9	
N-Nitroso-di-n-propylamine	1.222	1.263	0.050	3.4	
Hexachloroethane	0.677	0.722		6.6	
Nitrobenzene	0.401	0.370		-7.7	
Isophorone	0.869	0.794		-8.6	
2-Nitrophenol	0.229	0.207		-9.6	20.0
2,4-Dimethylphenol	0.360	0.326		-9.4	
Benzoic acid	0.246	0.204		-17.1	
bis(2-Chloroethoxy)methane	0.532	0.489		-8.1	
2,4-Dichlorophenol	0.296	0.268		-9.5	20.0
1,2,4-Trichlorobenzene	0.305	0.283		-7.2	
Naphthalene	0.959	0.906		-5.5	
4-Chloroaniline	0.413	0.350		-15.2	
Hexachlorobutadiene	0.153	0.144		-5.9	20.0
4-Chloro-3-methylphenol	0.359	0.333		-7.2	20.0
2-Methylnaphthalene	0.549	0.547		-0.4	
Hexachlorocyclopentadiene	0.224	0.191	0.050	-14.7	
2,4,6-Trichlorophenol	0.389	0.333		-14.4	20.0
2,4,5-Trichlorophenol	0.420	0.369		-12.1	
2-Chloronaphthalene	1.109	0.972		-12.4	
2-Nitroaniline	0.527	0.453		-14.0	
Dimethylphthalate	1.416	1.222		-13.7	
Acenaphthylene	1.875	1.668		-11.0	
2,6-Dinitrotoluene	0.383	0.327		-14.6	
3-Nitroaniline	0.379	0.260		-31.4	
Acenaphthene	1.089	0.983		-9.7	20.0
2,4-Dinitrophenol	0.209	0.148	0.050	-29.2	
4-Nitrophenol	0.147	0.115	0.050	-21.8	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Instrument ID: HP5970H Calibration Date: 08/19/97 Time: 0914

Lab File ID: >H3649 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Dibenzofuran	1.536	1.395		-9.2	
2,4-Dinitrotoluene	0.543	0.451		-16.9	
Diethylphthalate	1.479	1.316		-11.0	
4-Chlorophenyl-Phenyl Ether	0.583	0.520		-10.8	
Fluorene	1.202	1.124		-6.5	
4-Nitroaniline	0.475	0.357		-24.8	
4,6-Dinitro-2-methylphenol	0.182	0.156		-14.3	
N-Nitrosodiphenylamine	0.490	0.438		-10.6	20.0
4-Bromophenyl-phenylether	0.186	0.164		-11.8	
Hexachlorobenzene	0.226	0.199		-11.9	
Pentachlorophenol	0.148	0.129		-12.8	20.0
Phenanthrene	1.028	0.906		-11.9	
Anthracene	1.047	0.933		-10.9	
Carbazole	1.003	0.879		-12.4	
Di-n-butylphthalate	1.550	1.375		-11.3	
Fluoranthene	1.087	0.987		-9.2	20.0
Pyrene	1.395	1.199		-14.0	
Butylbenzylphthalate	0.915	0.770		-15.8	
3,3'-Dichlorobenzidine	0.382	0.335		-12.3	
Benzo(a)anthracene	1.170	1.028		-12.1	
Chrysene	1.162	1.004		-13.6	
bis(2-Ethylhexyl)phthalate	1.279	1.141		-10.8	
Di-n-octylphthalate	2.211	1.888		-14.6	20.0
Benzo(b)fluoranthene	1.287	1.046		-18.7	
Benzo(k)fluoranthene	0.983	0.893		-9.2	
Benzo(a)pyrene	1.094	0.928		-15.2	20.0
Indeno(1,2,3-cd)pyrene	1.046	0.902		-13.8	
Dibenz(a,h)anthracene	0.856	0.748		-12.6	
Benzo(g,h,i)perylene	0.905	0.758		-16.2	
Nitrobenzene-D5	0.415	0.380		-8.4	
2-Fluorobiphenyl	1.165	1.033		-11.3	
Terphenyl-D14	0.677	0.570		-15.8	
Phenol-D5	1.758	1.688		-4.0	
2-Fluorophenol	1.135	1.029		-9.3	
2,4,6-Tribromophenol	0.187	0.157		-16.0	

(1) Cannot be separated from Diphenylamine

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Instrument ID: HP5970H Calibration Date: 08/20/97 Time: 1123

Lab File ID: >H3661 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Phenol	1.854	1.868		0.8	20.0
bis(2-Chloroethyl)ether	1.329	1.465		10.2	
2-Chlorophenol	1.377	1.382		0.4	
1,3-Dichlorobenzene	1.385	1.409		1.7	
1,4-Dichlorobenzene	1.443	1.473		2.1	20.0
Benzyl alcohol	0.832	0.879		5.6	
1,2-Dichlorobenzene	1.341	1.418		5.7	
2-Methylphenol	1.264	1.366		8.1	
2,2'-oxybis(1-Chloropropane)	2.932	3.142		7.2	
4-Methylphenol	1.287	1.450		12.7	
N-Nitroso-di-n-propylamine	1.222	1.351	0.050	10.6	
Hexachloroethane	0.677	0.741		9.4	
Nitrobenzene	0.401	0.428		6.7	
Isophorone	0.869	0.858		-1.3	
2-Nitrophenol	0.229	0.221		-3.5	20.0
2,4-Dimethylphenol	0.360	0.360		0.0	
Benzoic acid	0.246	0.209		-15.0	
bis(2-Chloroethoxy)methane	0.532	0.530		-0.4	
2,4-Dichlorophenol	0.296	0.289		-2.4	20.0
1,2,4-Trichlorobenzene	0.305	0.299		-2.0	
Naphthalene	0.959	0.962		0.3	
4-Chloroaniline	0.413	0.404		-2.2	
Hexachlorobutadiene	0.153	0.146		-4.6	20.0
4-Chloro-3-methylphenol	0.359	0.378		5.3	20.0
2-Methylnaphthalene	0.549	0.592		7.8	
Hexachlorocyclopentadiene	0.224	0.178	0.050	-20.5	
2,4,6-Trichlorophenol	0.389	0.366		-5.9	20.0
2,4,5-Trichlorophenol	0.420	0.398		-5.2	
2-Chloronaphthalene	1.109	1.102		-0.6	
2-Nitroaniline	0.527	0.538		2.1	
Dimethylphthalate	1.416	1.350		-4.7	
Acenaphthylene	1.875	1.863		-0.6	
2,6-Dinitrotoluene	0.383	0.371		-3.1	
3-Nitroaniline	0.379	0.379		0.0	
Acenaphthene	1.089	1.085		-0.4	20.0
2,4-Dinitrophenol	0.209	0.197	0.050	-5.7	
4-Nitrophenol	0.147	0.144	0.050	-2.0	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Instrument ID: HP5970H Calibration Date: 08/20/97 Time: 1123

Lab File ID: >H3661 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Dibenzofuran	1.536	1.585		3.2	
2,4-Dinitrotoluene	0.543	0.528		-2.8	
Diethylphthalate	1.479	1.416		-4.3	
4-Chlorophenyl-Phenyl Ether	0.583	0.588		0.8	
Fluorene	1.202	1.259		4.7	
4-Nitroaniline	0.475	0.354		-25.5	
4,6-Dinitro-2-methylphenol	0.182	0.177		-2.8	
N-Nitrosodiphenylamine	0.490	0.500		2.0	20.0
4-Bromophenyl-phenylether	0.186	0.187		0.5	
Hexachlorobenzene	0.226	0.241		6.6	
Pentachlorophenol	0.148	0.137		-7.4	20.0
Phenanthrene	1.028	1.049		2.0	
Anthracene	1.047	1.057		1.0	
Carbazole	1.003	1.038		3.5	
Di-n-butylphthalate	1.550	1.547		-0.2	
Fluoranthene	1.087	1.107		1.8	20.0
Pyrene	1.395	1.364		-2.2	
Butylbenzylphthalate	0.915	0.850		-7.1	
3,3'-Dichlorobenzidine	0.382	0.381		-0.3	
Benzo(a)anthracene	1.170	1.172		0.2	
Chrysene	1.162	1.134		-2.4	
bis(2-Ethylhexyl)phthalate	1.279	1.244		-2.7	
Di-n-octylphthalate	2.211	1.940		-12.2	20.0
Benzo(b)fluoranthene	1.287	1.062		-17.5	
Benzo(k)fluoranthene	0.983	1.060		7.8	
Benzo(a)pyrene	1.094	0.985		-10.0	20.0
Indeno(1,2,3-cd)pyrene	1.046	0.962		-8.0	
Dibenz(a,h)anthracene	0.856	0.809		-5.5	
Benzo(g,h,i)perylene	0.905	0.832		-8.1	
Nitrobenzene-D5	0.415	0.434		4.6	
2-Fluorobiphenyl	1.165	1.114		-4.4	
Terphenyl-D14	0.677	0.782		15.5	
Phenol-D5	1.758	1.897		7.9	
2-Fluorophenol	1.135	1.161		2.3	
2,4,6-Tribromophenol	0.187	0.203		8.6	

(1) Cannot be separated from Diphenylamine

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Instrument ID: HP5970H Calibration Date: 08/22/97 Time: 0720

Lab File ID: >H3693 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Phenol	1.854	1.879		1.4	20.0
bis(2-Chloroethyl)ether	1.329	1.472		10.8	
2-Chlorophenol	1.377	1.392		1.1	
1,3-Dichlorobenzene	1.385	1.417		2.3	
1,4-Dichlorobenzene	1.443	1.470		1.9	20.0
Benzyl alcohol	0.832	0.855		2.8	
1,2-Dichlorobenzene	1.341	1.450		8.1	
2-Methylphenol	1.264	1.441		14.0	
2,2'-oxybis(1-Chloropropane)	2.932	3.382		15.3	
4-Methylphenol	1.287	1.510		17.3	
N-Nitroso-di-n-propylamine	1.222	1.517	0.050	24.1	
Hexachloroethane	0.677	0.797		17.7	
Nitrobenzene	0.401	0.411		2.5	
Isophorone	0.869	0.891		2.5	
2-Nitrophenol	0.229	0.214		-6.6	20.0
2,4-Dimethylphenol	0.360	0.363		0.8	
Benzoic acid	0.246	0.191		-22.4	
bis(2-Chloroethoxy)methane	0.532	0.534		0.4	
2,4-Dichlorophenol	0.296	0.286		-3.4	20.0
1,2,4-Trichlorobenzene	0.305	0.304		-0.3	
Naphthalene	0.959	0.972		1.4	
4-Chloroaniline	0.413	0.397		-3.9	
Hexachlorobutadiene	0.153	0.166		8.5	20.0
4-Chloro-3-methylphenol	0.359	0.387		7.8	20.0
2-Methylnaphthalene	0.549	0.603		9.8	
Hexachlorocyclopentadiene	0.224	0.195	0.050	-12.9	
2,4,6-Trichlorophenol	0.389	0.362		-6.9	20.0
2,4,5-Trichlorophenol	0.420	0.400		-4.8	
2-Chloronaphthalene	1.109	1.058		-4.6	
2-Nitroaniline	0.527	0.508		-3.6	
Dimethylphthalate	1.416	1.403		-0.9	
Acenaphthylene	1.875	1.862		-0.7	
2,6-Dinitrotoluene	0.383	0.378		-1.3	
3-Nitroaniline	0.379	0.336		-11.3	
Acenaphthene	1.089	1.102		1.2	20.0
2,4-Dinitrophenol	0.209	0.198	0.050	-5.3	
4-Nitrophenol	0.147	0.132	0.050	-10.2	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Instrument ID: HP5970H Calibration Date: 08/22/97 Time: 0720

Lab File ID: >H3693 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Dibenzofuran	1.536	1.587		3.3	
2,4-Dinitrotoluene	0.543	0.516		-5.0	
Diethylphthalate	1.479	1.475		-0.3	
4-Chlorophenyl-Phenyl Ether	0.583	0.615		5.5	
Fluorene	1.202	1.256		4.5	
4-Nitroaniline	0.475	0.377		-20.6	
4,6-Dinitro-2-methylphenol	0.182	0.177		-2.8	
N-Nitrosodiphenylamine	0.490	0.485		-1.0	20.0
4-Bromophenyl-phenylether	0.186	0.197		5.9	
Hexachlorobenzene	0.226	0.260		15.0	
Pentachlorophenol	0.148	0.142		-4.0	20.0
Phenanthrene	1.028	1.032		0.4	
Anthracene	1.047	1.058		1.0	
Carbazole	1.003	0.945		-5.8	
Di-n-butylphthalate	1.550	1.562		0.8	
Fluoranthene	1.087	1.082		-0.5	20.0
Pyrene	1.395	1.387		-0.6	
Butylbenzylphthalate	0.915	0.844		-7.8	
3,3'-Dichlorobenzidine	0.382	0.389		1.8	
Benzo(a)anthracene	1.170	1.338		14.4	
Chrysene	1.162	1.038		-10.7	
bis(2-Ethylhexyl)phthalate	1.279	1.236		-3.4	
Di-n-octylphthalate	2.211	1.848		-16.4	20.0
Benzo(b)fluoranthene	1.287	1.262		-1.9	
Benzo(k)fluoranthene	0.983	0.848		-13.7	
Benzo(a)pyrene	1.094	1.030		-5.8	20.0
Indeno(1,2,3-cd)pyrene	1.046	1.029		-1.6	
Dibenz(a,h)anthracene	0.856	0.855		-0.1	
Benzo(g,h,i)perylene	0.905	0.889		-1.8	
Nitrobenzene-D5	0.415	0.420		1.2	
2-Fluorobiphenyl	1.165	1.116		-4.2	
Terphenyl-D14	0.677	0.687		1.5	
Phenol-D5	1.758	1.833		4.3	
2-Fluorophenol	1.135	1.074		-5.4	
2,4,6-Tribromophenol	0.187	0.217		16.0	

(1) Cannot be separated from Diphenylamine

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: IEA-CT Contract: _____

Code: IEACT Case No.: 1788A SDG No.: A1788

GC Column: DB-1701 ID: 0.53 (mm)

	SAMPLE NO.	TCX %REC	#	DCB %REC	#	OTHER %REC	#	OTHER %REC	#	TOT OUT
01	PCBLK70	79		75						0
02	PBLK70QC2	79		95						0
03	FB 072597	86		81						0
04	PBLK77	58		97						0
05	PBLK77QC2	56		68						0
06	FB-2	48		44						0
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

ADVISORY QC LIMITS

TCX = Tetrachloro-m-xylene (11-153)
DCB = Decachlorobiphenyl (35-117)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM II PEST-1
GC-8081:rev 1.0

2F
SOIL PESTICIDE SURROGATE RECOVERY

ab Name: IEA-CT Contract: _____

, Code: IEACT Case No.: 1788A SDG No.: A1788

C Column: DB-1701 ID: 0.53 (mm)

	SAMPLE NO.	TCX %REC	#	DCB %REC	#	OTHER %REC	#	OTHER %REC	#	TOT OUT
01	PBLK65QC2	75		79						0
02	PCBLK65	79		80						0
03	GP-2	80		101						0
04	PCBLK73	77		81						0
05	TPVII W	76		66						0
06	TPVII N	67		65						0
07	GP-1(SIDE)	D		D						0
08	GP-1(BTM)	D		D						0
09	TPVII BTM	118		139						0
10	PBLK81	89		99						0
11	PBLK81QC	75		97						0
12	B-14	82		100						0
13	B-20	53		65						0
14	B-19	84		103						0
15	B-18	84		75						0
16	B-15	67		136						0
17	B-30	83		120						0
18	B-24	D		D						0
19	TPVII E	D		D						0
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

ADVISORY
QC LIMITS

TCX = Tetrachloro-m-xylene (47-150)
DCB = Decachlorobiphenyl (41-149)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM II PEST-2
GC-8081:rev 1.0

3G
WATER PESTICIDE QC CHECK RECOVERY

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 1788A SDG No.: A1788

Sample No.: PBLK70

COMPOUND	SPIKE ADDED (UG/L)	SPIKE CONCENTRATION (UG/L)	% REC #	QC. LIMITS REC.
Aroclor-1242	10	6.1	61	37-84
Aroclor-1260	10	8.8	88	40-135

Column to be used to flag recovery values with an asterisk

COMMENTS: _____

FORM III PEST-3
GC-8081:rev 1.0

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network(CT)	AEN ID:	0070-493-01
Project:	7097-1788B	Sample:	B-29
Report Date:	09/05/97	Type:	Soil
Collected:	08/01/97	Container:	Glass
Received:	08/06/97		
Analyzed:	08/11/97	Dilution Factor:	6.6
By:	LSB		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	6.6	BQL
2	n-Butylbenzene	6.6	270
3	s-Butylbenzene	6.6	15
4	t-Butylbenzene	6.6	BQL
5	Ethylbenzene	6.6	96
6	Isopropylbenzene	6.6	BQL
7	Isopropyltoluene	6.6	22
8	Methyl-t-butylether	6.6	BQL
9	Naphthalene	6.6	140
10	n-Propylbenzene	6.6	12
11	Toluene	6.6	BQL
12	1,2,4-Trimethylbenzene	6.6	490
13	1,3,5-Trimethylbenzene	6.6	470
14	Xylenes (Total)	6.6	240

Surrogate Standard Recovery:

1,4-Difluorobenzene	79	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network(CT)	AEN ID:	0070493-02
Project:	7097-1788B	Sample:	FB 8/1/97
Report Date:	09/05/97	Type:	Water
Collected:	08/01/97	Container:	VOA
Received:	08/06/97		
Analyzed:	08/11/97	Dilution Factor:	1
By:	LSB		

Number	Compound	PQL (ug/L)	Result (ug/L)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	95	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.

TABLE SV-1.0
7097-1788B
GERAGHTY & MILLER
PAH'S

Aqueous

All values are ug/L.

Client Sample I.D.	Method Blank	CESS POOL LQ	FB 080197	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKQH	971788B-01	971788B-11	
Method Blank I.D.	SBLKQH	SBLKQH	SBLKQH	
Quant. Factor	1.00	40.0	1.00	
Naphthalene	U	U	U	10
2-Methylnaphthalene	U	U	U	10
Acenaphthylene	U	U	U	10
Acenaphthene	U	U	U	10
Fluorene	U	U	U	10
Phenanthrene	U	U	U	10
Anthracene	U	U	U	10
Fluoranthene	U	U	U	10
Pyrene	U	U	U	10
Benzo(a)anthracene	U	U	U	10
Chrysene	U	U	U	10
Benzo(b)fluoranthene	U	U	U	10
Benzo(k)fluoranthene	U	U	U	10
Benzo(a)pyrene	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	10
Dibenzo(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	10
Date Received		07/31/97	08/04/97	
Date Extracted	08/05/97	08/05/97	08/05/97	
Date Analyzed	08/21/97	08/22/97	08/22/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	Cont Cal
Project:		Sample:	
Report Date:	08/06/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/01/97	Dilution Factor:	1
By:	GAM		

Number	Compound	Spike ug/kg(dry)	Result ug/kg	Limits ug/kg(dry)
1	Benzene	50	51	42-58
2	n-Butylbenzene	50	52	42-58
3	s-Butylbenzene	50	52	42-58
4	t-Butylbenzene	50	52	42-58
5	Ethylbenzene	50	51	42-58
6	Isopropylbenzene	50	51	42-58
7	Isopropyltoluene	50	52	42-58
8	Methyl-t-butylether	50	49	42-58
9	Naphthalene	25	25	21-29
10	n-Propylbenzene	50	52	42-58
11	Toluene	50	51	42-58
12	1,2,4-Trimethylbenzene	50	51	42-58
13	1,3,5-Trimethylbenzene	50	53	42-58
14	Xylenes (Total)	50	51	42-58

Surrogate Standard Recovery:

1,4-Difluorobenzene	105	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-487-01, 0070-487-02

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	0070-487-01 MS/MSD
Project:		Sample:	
Report Date:	08/06/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/01/97	Dilution Factor:	1
By:	GAM		

Number	Compound	MS (%)	MSD (%)	RPD (%)
1	Benzene	92	90	1.1
2	n-Butylbenzene	71	74	4.1
3	s-Butylbenzene	79	81	1.2
4	t-Butylbenzene	81	81	0.0
5	Ethylbenzene	87	87	0.0
6	Isopropylbenzene	87	87	0.0
7	Isopropyltoluene	81	87	7.1
8	Methyl-t-butylether	92	90	2.2
9	Naphthalene	62	68	9.2
10	n-Propylbenzene	87	84	3.5
11	Toluene	89	88	1.1
12	1,2,4-Trimethylbenzene	81	83	2.4
13	1,3,5-Trimethylbenzene	85	83	2.4
14	Xylenes (Total)	89	88	1.1

Surrogate Standard Recovery:

1,4-Difluorobenzene	90	90	0.0

Comments:

PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-488-01, 0070-488-02, 0070-488-03, 0070-488-04, 0070-488-05

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	0070-487-01 MS/MSD
Project:		Sample:	
Report Date:	08/07/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/01/97	Dilution Factor:	1
By:	GAM		

Number	Compound	MS (%)	MSD (%)	RPD (%)
1	Benzene	92	90	1.1
2	n-Butylbenzene	71	74	4.1
3	s-Butylbenzene	79	81	1.2
4	t-Butylbenzene	81	81	0.0
5	Ethylbenzene	87	87	0.0
6	Isopropylbenzene	87	87	0.0
7	Isopropyltoluene	81	87	7.1
8	Methyl-t-butylether	92	90	2.2
9	Naphthalene	62	68	9.2
10	n-Propylbenzene	87	84	3.5
11	Toluene	89	88	1.1
12	1,2,4-Trimethylbenzene	81	83	2.4
13	1,3,5-Trimethylbenzene	85	83	2.4
14	Xylenes (Total)	89	88	1.1

Surrogate Standard Recovery:

1,4-Difluorobenzene	90	90	0.0

Comments:

PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-490-01, 0070-490-02, 0070-490-03

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	0070-487-01 MS/MSD
Project:		Sample:	
Report Date:	08/07/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/01/97	Dilution Factor:	1
By:	GAM		

Number	Compound	MS (%)	MSD (%)	RPD (%)
1	Benzene	92	90	1.1
2	n-Butylbenzene	71	74	4.1
3	s-Butylbenzene	79	81	1.2
4	t-Butylbenzene	81	81	0.0
5	Ethylbenzene	87	87	0.0
6	Isopropylbenzene	87	87	0.0
7	Isopropyltoluene	81	87	7.1
8	Methyl-t-butylether	92	90	2.2
9	Naphthalene	62	68	9.2
10	n-Propylbenzene	87	84	3.5
11	Toluene	89	88	1.1
12	1,2,4-Trimethylbenzene	81	83	2.4
13	1,3,5-Trimethylbenzene	85	83	2.4
14	Xylenes (Total)	89	88	1.1

Surrogate Standard Recovery:

1,4-Difluorobenzene	90	90	0.0

Comments:

PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-492-01

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	Cont Cal
Project:		Sample:	
Report Date:	08/06/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/01/97	Dilution Factor:	1
By:	GAM		

Number	Compound	Spike ug/kg(dry)	Result ug/kg(dry)	Limits ug/kg(dry)
1	Benzene	50	51	42-58
2	n-Butylbenzene	50	52	42-58
3	s-Butylbenzene	50	52	42-58
4	t-Butylbenzene	50	52	42-58
5	Ethylbenzene	50	51	42-58
6	Isopropylbenzene	50	51	42-58
7	Isopropyltoluene	50	52	42-58
8	Methyl-t-butylether	50	49	42-58
9	Naphthalene	25	25	21-29
10	n-Propylbenzene	50	52	42-58
11	Toluene	50	51	42-58
12	1,2,4-Trimethylbenzene	50	51	42-58
13	1,3,5-Trimethylbenzene	50	53	42-58
14	Xylenes (Total)	50	51	42-58

Surrogate Standard Recovery:

1,4-Difluorobenzene 105 %

Comments:

PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-488-01, 0070-488-02, 0070-488-03, 0070-488-04, 0070-488-05

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	Cont Cal
Project:		Sample:	
Report Date:	08/07/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/05/97	Dilution Factor:	1
By:	GAM		

Number	Compound	Spike ug/kg(dry)	Result ug/kg(dry)	Limits ug/kg(dry)
1	Benzene	50	48	42-58
2	n-Butylbenzene	50	42	42-58
3	s-Butylbenzene	50	46	42-58
4	t-Butylbenzene	50	47	42-58
5	Ethylbenzene	50	47	42-58
6	Isopropylbenzene	50	47	42-58
7	Isopropyltoluene	50	45	42-58
8	Methyl-t-butylether	50	50	42-58
9	Naphthalene	25	23	21-29
10	n-Propylbenzene	50	47	42-58
11	Toluene	50	48	42-58
12	1,2,4-Trimethylbenzene	50	47	42-58
13	1,3,5-Trimethylbenzene	50	47	42-58
14	Xylenes (Total)	50	47	42-58

Surrogate Standard Recovery:

1,4-Difluorobenzene 97 %

Comments:

PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-490-01, 0070-490-02, 0070-490-03

3G
WATER PESTICIDE QC CHECK RECOVERY

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 1788A SDG No.: A1788

Sample No.: PBLK77

COMPOUND	SPIKE ADDED (UG/L)	SPIKE CONCENTRATION (UG/L)	% REC #	QC. LIMITS REC.
Aroclor-1260	10	5.8	58	40-135

Column to be used to flag recovery values with an asterisk

COMMENTS: _____

FORM III PEST-3
GC-8081:rev 1.0

3H
SOIL PESTICIDE QC CHECK RECOVERY

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 1788A SDG No.: A1788

Sample No.: PBLK65

COMPOUND	SPIKE ADDED (UG/KG)	SPIKE CONCENTRATION (UG/KG)	% REC	#	QC. LIMITS REC.
Aroclor-1242	330	220	67		37-98
Aroclor-1260	330	240	73		46-115

Column to be used to flag recovery values with an asterisk

COMMENTS: _____

FORM III PEST-4
GC-8081:rev 1.0

3H
SOIL PESTICIDE QC CHECK RECOVERY

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 1788A SDG No.: A1788

Sample No.: PBLK81

COMPOUND	SPIKE ADDED (UG/KG)	SPIKE CONCENTRATION (UG/KG)	% REC #	QC. LIMITS REC.
Aroclor-1260	330	220	67	46-115

Column to be used to flag recovery values with an asterisk

COMMENTS: _____

FORM III PEST-4
GC-8081:rev 1.0

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: IEA-CT Contract: _____ Client Id: PCBLK70

Lab Code: IEACT Case No.: 1788A SDG No.: A1788

Lab sample ID: 072997-S04 Lab File ID: A4507053

Matrix: (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) Y Date Extracted: 07/29/97

Date Analyzed (1): 07/31/97 Date Analyzed (2): _____

Time Analyzed (1): 0203 Time Analyzed (2): ____

Instrument ID (1): HP58904A Instrument ID (2): _____

GC Column (1): DB-1701 ID: 0.53 (mm) GC Column (2): _____ ID: ____ (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK70QC2	072997-B04QC2	07/31/97	
02	FB 072597	971788A-02	07/31/97	
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST
GC-8081:rev 1.0

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: IEA-CT Contract: _____ Client Id: PBLK77

Lab Code: IEACT Case No.: 1788A SDG No.: A1788

Lab sample ID: 073197-B02 Lab File ID: A5390085

Matrix:(soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 07/31/97

Date Analyzed (1): 08/08/97 Date Analyzed (2): _____

Time Analyzed (1): 0850 Time Analyzed (2): _____

Instrument ID (1): HP58905A Instrument ID (2): _____

GC Column (1):DB-1701 ID:0.53(mm) GC Column (2):_____ ID:____(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK77QC2	073197-B02QC2	08/12/97	
02	FB-2	971788A-10	08/25/97	
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: IEA-CT Contract: _____ Client Id: PCBLK65

Lab Code: IEACT Case No.: 1788A SDG No.: A1788

Lab sample ID: 072897-S04 Lab File ID: A5389413

Matrix:(soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) Y Date Extracted: 07/28/97

Date Analyzed (1): 07/30/97 Date Analyzed (2): 08/07/97

Time Analyzed (1): 2200 Time Analyzed (2): 1356

Instrument ID (1): HP58905A Instrument ID (2): HP58901A

GC Column (1):DB-1701 ID:0.53(mm) GC Column (2):RTX-35 ID:0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK65QC2	072897-B04QC2	07/30/97	
02	GP-2	971788A-01	07/30/97	08/07/97
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST
GC-8081:rev 1.0

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: IEA-CT Contract: _____ Client Id: PCBLK73

Lab Code: IEACT Case No.: 1788A SDG No.: A1788

Lab sample ID: 073097-S02 Lab File ID: A5389447

Matrix:(soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) Y Date Extracted: 07/30/97

Date Analyzed (1): 07/31/97 Date Analyzed (2): 08/07/97

Time Analyzed (1): 2148 Time Analyzed (2): 1511

Instrument ID (1): HP58905A Instrument ID (2): HP58901A

GC Column (1):DB-1701 ID:0.53(mm) GC Column (2):RTX-35 ID:0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	TPVII W	971788A-07	07/31/97	08/07/97
02	TPVII N	971788A-08	08/01/97	08/07/97
03	GP-1(SIDE)	971788A-05	08/08/97	08/07/97
04	GP-1(BTM)	971788A-06	08/08/97	08/07/97
05	TPVII BTM	971788A-09	08/08/97	08/07/97
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST
GC-8081:rev 1.0

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: IEA-CT Contract: _____ Client Id: PBLK81

Lab Code: IEACT Case No.: 1788A SDG No.: A1788

Lab sample ID: 080497-B02 Lab File ID: A5390109

Matrix:(soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) Y Date Extracted: 08/04/97

Date Analyzed (1): 08/09/97 Date Analyzed (2): 08/13/97

Time Analyzed (1): 0151 Time Analyzed (2): 1316

Instrument ID (1): HP58905A Instrument ID (2): HP58901A

GC Column (1):DB-1701 ID:0.53(mm) GC Column (2):RTX-35 ID:0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK81QC	080497-B02QC	08/09/97	
02	B-14	971788A-11	08/09/97	08/13/97
03	B-20	971788A-13	08/09/97	08/13/97
04	B-19	971788A-15	08/09/97	08/13/97
05	B-18	971788A-18	08/09/97	08/13/97
06	B-15	971788A-12	08/12/97	08/13/97
07	B-30	971788A-14	08/12/97	08/13/97
08	B-24	971788A-17	08/12/97	08/13/97
09	TPVII E	971788A-20	08/12/97	08/13/97
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

American Environmental Network
200 Monroe Turnpike • Monroe, CT 06468 • (203) 261-4458 • Fax (203) 268-5346

September 16, 1997

Mr. Greg Ernst
GERAGHTY & MILLER
88 Duryea Road
Melville, NY 11747

Dear Mr. Ernst :

Please find enclosed the analytical results of 11 sample(s) received at our laboratory on July 31-August 4, 1997. This report contains sections addressing the following information at a minimum:

- sample summary
- analytical methodology
- state certifications
- definition of data qualifiers and terminology
- analytical results
- chain-of-custody

IEA Report #7097-1788B	Purchase Order #NY0962.001
Project ID: NYU LABS	

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 261-4458 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Jeffrey C. Curran
Laboratory Manager

JCC

Case Narrative

Volatile Organics - Subcontracted to AEN/MA.

Polychlorinated Biphenyls (PCB's) - PCB samples were extracted and analyzed by GC/ECD using guidance provided in Methods 3510B/3550A/8081. The instrumentation used was a Hewlett-Packard Gas Chromatograph equipped with an Electron Capture Detector (Ni^{63}).

All samples were extracted and concentrated without any apparent problems.

All soil samples required acid and sulfur cleanup prior to analysis.

Surrogates were diluted out of samples B-12, B-29, and CESSPOOL SO.

Surrogate percent recoveries were outside of advisory QC limits in samples PBLK82, CESS POOL LQ, and FB 080197.

Manual integrations were performed if required, and any affected peaks were designated with an "FF" on the area report in the column titled "Code". Manual integrations were initialed by the analyst that performed the integration.

Semi-Volatile Organics - Semi-volatile organic samples were extracted and analyzed by capillary GC/MS using guidance provided in Methods 3510B/3550/8270B. The instrumentation used was a Hewlett-Packard Gas Chromatograph interfaced with a Mass Selective Detector.

All samples were extracted, concentrated and analyzed without any apparent problems, except as noted below.

The following samples exhibited internal standard area suppression. The samples were reanalyzed to prove matrix interference. Both sets of data are included with the reanalysis labelled with an "RE" suffix.

Cess Pool SO B-22 B-12 B-13

The following samples were analyzed at dilutions due to either high target compounds and/or high background chromatography:

Sample ID	Dilution
Cess Pool LQ	1:20
Cess Pool SO	1:10
Cess Pool SO RE	1:10

CASE NARRATIVE

Report Date: 09/12/97
Client: AEN-CT
Project: 9097-1788B

Received Date: 09/12/97
AEN Job Number: 0070-493

The field blank associated with this project was processed with its soil samples. The corresponding QC is, therefore, identical to the soil batch QC.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	Method Blank (08/05)
Project:		Sample:	
Report Date:	08/07/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/05/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	72	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-491-01, 0070-491-02, 0070-491-03

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-491-01
Project:	7097-1788B	Sample:	Cesspool Liq
Report Date:	08/07/97	Type:	Water
Collected:	07/30/97	Container:	VOA
Received:	08/04/97		
Analyzed:	08/05/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL (ug/L)	Result (ug/L)
1	Benzene	1	BQL
2	n-Butylbenzene	1	5
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	5
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	2
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	91	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-491-02
Project:	7097-1788B	Sample:	Cesspool Sol
Report Date:	08/07/97	Type:	Soil
Collected:	07/30/97	Container:	Glass
Received:	08/04/97		
Analyzed:	08/05/97	Dilution Factor:	2.3
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	2.3	BQL
2	n-Butylbenzene	2.3	170
3	s-Butylbenzene	2.3	200
4	t-Butylbenzene	2.3	38
5	Ethylbenzene	2.3	BQL
6	Isopropylbenzene	2.3	BQL
7	Isopropyltoluene	2.3	260
8	Methyl-t-butylether	2.3	BQL
9	Naphthalene	2.3	BQL
10	n-Propylbenzene	2.3	BQL
11	Toluene	2.3	BQL
12	1,2,4-Trimethylbenzene	2.3	BQL
13	1,3,5-Trimethylbenzene	2.3	42
14	Xylenes (Total)	2.3	55

Surrogate Standard Recovery:

1,4-Difluorobenzene	84	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:	IEA/American Env. Network (CT)	AEN ID:	0070-491-03
Project:	7097-1788B	Sample:	B-2
Report Date:	08/07/97	Type:	Soil
Collected:	07/31/97	Container:	Glass
Received:	08/04/97		
Analyzed:	08/05/97	Dilution Factor:	1
By:	GAM		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	86	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	Method Blank
Project:		Sample:	
Report Date:	09/05/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/11/97	Dilution Factor:	1
By:	LSB		

Number	Compound	PQL ug/kg(dry)	Result ug/kg(dry)
1	Benzene	1	BQL
2	n-Butylbenzene	1	BQL
3	s-Butylbenzene	1	BQL
4	t-Butylbenzene	1	BQL
5	Ethylbenzene	1	BQL
6	Isopropylbenzene	1	BQL
7	Isopropyltoluene	1	BQL
8	Methyl-t-butylether	1	BQL
9	Naphthalene	1	BQL
10	n-Propylbenzene	1	BQL
11	Toluene	1	BQL
12	1,2,4-Trimethylbenzene	1	BQL
13	1,3,5-Trimethylbenzene	1	BQL
14	Xylenes (Total)	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene	91	%

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Corresponding Samples: 0070-493-01, -02

TABLE SV-1.2 Soil
7097-1744A
GERAGHTY & MILLER page 1 of 2
TCL SEMI-VOLATILE ORGANICS

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	B-23	B-16	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKUJ	971744A-06	971744A-07	
Method Blank I.D.	SBLKUJ	SBLKUJ	SBLKUJ	
Quant. Factor	1.00	1.10	1.06	
Phenol	U	U	U	330
bis(2-Chloroethyl)ether	U	U	U	330
2-Chlorophenol	U	U	U	330
1,3-Dichlorobenzene	U	U	U	330
1,4-Dichlorobenzene	U	U	U	330
1,2-Dichlorobenzene	U	U	U	330
2-Methylphenol	U	U	U	330
2,2'-oxybis(1-Chloropropane)	U	U	U	330
4-Methylphenol	U	U	U	330
N-Nitroso-di-n-propylamine	U	U	U	330
Hexachloroethane	U	U	U	330
Nitrobenzene	U	U	U	330
Isophorone	U	U	U	330
2-Nitrophenol	U	U	U	330
2,4-Dimethylphenol	U	U	U	330
bis(2-Chloroethoxy)methane	U	U	U	330
2,4-Dichlorophenol	U	U	U	330
1,2,4-Trichlorobenzene	U	U	U	330
Naphthalene	U	8J	15J	330
4-Chloroaniline	U	U	U	330
Hexachlorobutadiene	U	U	U	330
4-Chloro-3-methylphenol	U	U	U	330
2-Methylnaphthalene	U	U	U	330
Hexachlorocyclopentadiene	U	U	U	330
2,4,6-Trichlorophenol	U	U	U	330
2,4,5-Trichlorophenol	U	U	U	830
2-Chloronaphthalene	U	U	U	330
2-Nitroaniline	U	U	U	830
Dimethylphthalate	U	U	U	330
Acenaphthylene	U	U	12J	330
2,6-Dinitrotoluene	U	U	U	330
3-Nitroaniline	U	U	U	830
Acenaphthene	U	14J	130J	330
2,4-Dinitrophenol	U	U	U	830
4-Nitrophenol	U	U	U	830
Date Received		08/01/97	08/01/97	
Date Extracted	08/06/97	08/06/97	08/06/97	
Date Analyzed	08/26/97	08/26/97	08/26/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.3 Soil
7097-1744A
GERAGHTY & MILLER page 1 of 2
TCL SEMI-VOLATILE ORGANICS

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-16 MS	B-16 MSD	B-17	Quant. Limits with no Dilution
Lab Sample I.D.	971744A-07MS	971744A-07 MSD	971744A-08	
Method Blank I.D.	SBLKUJ	SBLKUJ	SBLKUJ	
Quant. Factor	1.06	1.06	1.08	
Phenol	1800X	2000X	U	330
bis(2-Chloroethyl)ether	U	U	U	330
2-Chlorophenol	1700X	1900X	U	330
1,3-Dichlorobenzene	U	U	U	330
1,4-Dichlorobenzene	1300X	1400X	U	330
1,2-Dichlorobenzene	U	U	U	330
2-Methylphenol	U	U	U	330
2,2'-oxybis(1-Chloropropane)	U	U	U	330
4-Methylphenol	U	U	U	330
N-Nitroso-di-n-propylamine	1600X	1800X	U	330
Hexachloroethane	U	U	U	330
Nitrobenzene	U	U	U	330
Isophorone	U	U	U	330
2-Nitrophenol	U	U	U	330
2,4-Dimethylphenol	U	U	U	330
bis(2-Chloroethoxy)methane	U	U	U	330
2,4-Dichlorophenol	U	U	U	330
1,2,4-Trichlorobenzene	1500X	1600X	U	330
Naphthalene	20J	20J	70J	330
4-Chloroaniline	U	U	U	330
Hexachlorobutadiene	U	U	U	330
4-Chloro-3-methylphenol	1900X	2400X	U	330
2-Methylnaphthalene	U	22J	160J	330
Hexachlorocyclopentadiene	U	U	U	330
2,4,6-Trichlorophenol	U	U	U	330
2,4,5-Trichlorophenol	U	U	U	830
2-Chloronaphthalene	U	U	U	330
2-Nitroaniline	U	U	U	830
Dimethylphthalate	U	U	U	330
Acenaphthylene	U	41J	U	330
2,6-Dinitrotoluene	U	U	U	330
3-Nitroaniline	U	U	U	830
Acenaphthene	1500X	1600X	U	330
2,4-Dinitrophenol	U	U	U	830
4-Nitrophenol	1900X	3100EX	U	830
Date Received	08/01/97	08/01/97	08/01/97	
Date Extracted	08/06/97	08/06/97	08/06/97	
Date Analyzed	08/26/97	08/27/97	08/27/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.2 Soil
7097-1744A
GERAGHTY & MILLER page 2 of 2
TCL SEMI-VOLATILE ORGANICS

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	B-23	B-16	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKUJ	971744A-06	971744A-07	
Method Blank I.D.	SBLKUJ	SBLKUJ	SBLKUJ	
Quant. Factor	1.00	1.10	1.06	
Dibenzofuran	U	9J	58J	330
2,4-Dinitrotoluene	U	U	U	330
Diethylphthalate	8J	U	16JB u	330
4-Chlorophenyl-phenylether	U	U	U	330
Fluorene	U	14J	160J	330
4-Nitroaniline	U	U	U	830
4,6-Dinitro-2-methylphenol	U	U	U	830
N-Nitrosodiphenylamine (1)	U	U	U	330
4-Bromophenyl-phenylether	U	U	U	330
Hexachlorobenzene	U	U	U	330
Pentachlorophenol	U	U	U	830
Phenanthrene	U	200J	1600	330
Anthracene	U	35J	340J	330
Carbazole	U	25J	200J	330
Di-n-butylphthalate	14J	18JB u	26JB u	330
Fluoranthene	U	300J	2400	330
Pyrene	U	160J	1200	330
Butylbenzylphthalate	U	U	U	330
3,3'-Dichlorobenzidine	U	U	U	330
Benzo(a)anthracene	U	130J	1200	330
Chrysene	U	170J	1400	330
bis(2-Ethylhexyl)phthalate	12J	32JB u	25JB u	330
Di-n-octylphthalate	U	U	U	330
Benzo(b)fluoranthene	U	160J	1300	330
Benzo(k)fluoranthene	U	150J	1100	330
Benzo(a)pyrene	U	130J	1100	330
Indeno(1,2,3-cd)pyrene	U	43J	280J	330
Dibenz(a,h)anthracene	U	12J	U	330
Benzo(g,h,i)perylene	U	20J	78J	330
Date Received		08/01/97	08/01/97	
Date Extracted	08/06/97	08/06/97	08/06/97	
Date Analyzed	08/26/97	08/26/97	08/26/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.3
7097-1744A
GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

Soil

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-16 MS	B-16 MSD	B-17	Quant. Limits with no Dilution
Lab Sample I.D.	971744A-07MS	971744A-07 MSD	971744A-08	
Method Blank I.D.	SBLKUJ	SBLKUJ	SBLKUJ	
Quant. Factor	1.06	1.06	1.08	
Dibenzofuran	37J	46J	26J	330
2,4-Dinitrotoluene	1600X	2100X	U	330
Diethylphthalate	14JB	18JB	16JB	330
4-Chlorophenyl-phenylether	U	U	U	330
Fluorene	94J	150J	U	330
4-Nitroaniline	U	U	U	830
4,6-Dinitro-2-methylphenol	U	U	U	830
N-Nitrosodiphenylamine (1)	U	U	U	330
4-Bromophenyl-phenylether	U	U	U	330
Hexachlorobenzene	U	U	U	330
Pentachlorophenol	1300X	980X	U	830
Phenanthrene	1200	1500	110J	330
Anthracene	190J	270J	14J	330
Carbazole	140J	210J	U	330
Di-n-butylphthalate	27JB	26JB	21JB	330
Fluoranthene	2000	2300	120J	330
Pyrene	1700X	2200X	130J	330
Butylbenzylphthalate	U	U	U	330
3,3'-Dichlorobenzidine	U	U	U	330
Benzo(a)anthracene	960	1100	67J	330
Chrysene	1300	1400	99J	330
bis(2-Ethylhexyl)phthalate	21JB	43JB	38JB	330
Di-n-octylphthalate	U	U	U	330
Benzo(b)fluoranthene	1100	1400	88J	330
Benzo(k)fluoranthene	1200	1000	79J	330
Benzo(a)pyrene	970	1100	84J	330
Indeno(1,2,3-cd)pyrene	260J	130J	89J	330
Dibenz(a,h)anthracene	U	60J	U	330
Benzo(g,h,i)perylene	100J	27J	53J	330
Date Received	08/01/97	08/01/97	08/01/97	
Date Extracted	08/06/97	08/06/97	08/06/97	
Date Analyzed	08/26/97	08/27/97	08/27/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.4 Soil
7097-1744A
GERAGHTY & MILLER page 1 of 2
TCL SEMI-VOLATILE ORGANICS

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-21(0-2)	B-21(0-2) RE		Quant. Limits with no Dilution
Lab Sample I.D.	971744A-09	971744A-09RE		
Method Blank I.D.	SBLKUJ	SBLKUJ		
Quant. Factor	1.06	1.06		
Phenol	U	U		330
bis(2-Chloroethyl)ether	U	U		330
2-Chlorophenol	U	U		330
1,3-Dichlorobenzene	U	U		330
1,4-Dichlorobenzene	U	U		330
1,2-Dichlorobenzene	U	U		330
2-Methylphenol	U	U		330
2,2'-oxybis(1-Chloropropane)	U	U		330
4-Methylphenol	U	U		330
N-Nitroso-di-n-propylamine	U	U		330
Hexachloroethane	U	U		330
Nitrobenzene	U	U		330
Isophorone	U	U		330
2-Nitrophenol	U	U		330
2,4-Dimethylphenol	U	U		330
bis(2-Chloroethoxy)methane	U	U		330
2,4-Dichlorophenol	U	U		330
1,2,4-Trichlorobenzene	U	U		330
Naphthalene	19J	40J		330
4-Chloroaniline	U	U		330
Hexachlorobutadiene	U	U		330
4-Chloro-3-methylphenol	U	U		330
2-Methylnaphthalene	30J	32J		330
Hexachlorocyclopentadiene	U	U		330
2,4,6-Trichlorophenol	U	U		330
2,4,5-Trichlorophenol	U	U		830
2-Chloronaphthalene	U	U		330
2-Nitroaniline	U	U		830
Dimethylphthalate	U	U		330
Acenaphthylene	U	U		330
2,6-Dinitrotoluene	U	U		330
3-Nitroaniline	U	U		830
Acenaphthene	U	U		330
2,4-Dinitrophenol	U	U		830
4-Nitrophenol	U	U		830
Date Received	08/01/97	08/01/97		
Date Extracted	08/06/97	08/06/97		
Date Analyzed	08/26/97	08/27/97		

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 1788A SAS No.: _____ SDG No.: A1788

Level: (low/med) LOW

EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
SBLKIH	65	63	93	63	61	50			0
SBLKIHMS	76	72	96	75	77	60			0
SBLKIHMSD	81	80	119	79	80	80			0
GP1(SBCOMP)	68	66	82	77	72	67			0
TPVII W	60	59	146*	65	63	62			1
TPVII N	60	61	127	67	64	69			0
TPVII BTM	67	66	131	75	71	75			0
B-19	62	60	72	67	65	64			0
B-27	69	69	102	75	69	71			0
B-18	62	58	77	65	63	63			0
TPVII WRE	77	73	145*	84	79	44			1
TPVII NRE	75	71	130	84	78	90			0
TPVII BTMRE	86	79	97	97	89	54			0
B-27RE	87	83	128	98	86	106			0
B-28	87	81	142D	99	88	84			0
B-24	88	74	117	92	87	87			0
B-24DL	93	87	141D	102	92	110			0
SBLKAH	72	70	100	71	73	64			0
SBLKAHFMS	73	75	92	73	75	75			0
GP-2	110	89	113	121*	114	112			1

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (23-120)
S2 (FBP) = 2-Fluorobiphenyl (30-115)
S3 (TPH) = Terphenyl-d14 (18-137)
S4 (PHL) = Phenol-d5 (24-113)
S5 (2FP) = 2-Fluorophenol (25-121)
S6 (TBP) = 2,4,6-Tribromophenol (19-122)
S7 (2CP) = 2-Chlorophenol-d4 (-) (advisory)
S8 (DCB) = 1,2-Dichlorobenzene-d4 (-) (advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV-2

7097-1744A
GERAGHTY & MILLER

Case Narrative

Metals - ICAP metals were determined by ICP using a JA61 simultaneous ICAP and a JA61E trace ICAP; mercury was determined by the cold vapor technique utilizing the Thermo Jarrell Ash Model QS-1 E mercury analyzer using the USEPA CLP ILM03.0 SOW.

Thirteen "N" flags resulted from spike analysis of sample B-16 for arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, manganese, nickel, selenium, thallium, vanadium, and zinc. Since the post-digestion spike was within the control limits, a matrix interference was not suspected.

Two asterisks "*" resulted from duplicate analysis of sample B-16 for calcium and lead. This appears to be the result of problems associated with sample homogeneity.

One "E" flag resulted from serial dilution analysis of sample B-16 for potassium. There is no apparent reason for this flag.

No other problems occurred during analysis. All appropriate protocols were employed. All data appears to be consistent.

IEC's are electronically employed by the TJA ICAP-61 and JA61E trace ICAP. However, the ICSA is utilized as a monitoring device to detect any additional adjustments that may be required. These modifications are calculated and applied manually. They are so noted in the raw data.

Polychlorinated Biphenyls (PCB's) - PCB samples were extracted and analyzed by GC/ECD using guidance provided in Methods 3510B/3550A/8081. The instrumentation used was a Hewlett-Packard Gas Chromatograph equipped with an Electron Capture Detector (Ni^{63}).

All samples were extracted and concentrated without any apparent problems.

The DB-1701 column was used for primary analysis and the RTX-35 column was used for confirmation analysis.

Acid and sulfur cleanup was performed on all samples.

Sample TPVII S required a 1:500 dilution, sample B-23 required a 1:5 dilution, and sample B-21(0-2) required a 1:1000 dilution.

Surrogates were diluted out of samples TPVII S, and B-21(0-2).

The surrogate DCB was out of advisory limits in samples PBLK82 and FB-3.

Manual integrations were performed if required, and any affected peaks were designated with an "FF" on the area report in the column titled "Code". Manual integrations were initialed by the analyst that performed the integration.

Sample Calculation:

Sample ID -TPVII S
Compound - Aroclor 1254

$$\frac{(1525557\text{area})(10000)(500)}{(5856780\text{area/ng})(30)(.90)} = 48236\text{ug/Kg}$$

Volatile Organics - Volatile organics were determined by purge and trap GC/MS using NYSDEC '91 Protocols. The instrumentation used was a Tekmar Dynamic Headspace Concentrator interfaced with a Hewlett-Packard Model 5995/5972A GC/MS/DS.

No problems were encountered.

Semi-Volatile Organics - Semi-volatile organic samples were extracted and analyzed by capillary GC/MS according to USEPA CLP Protocols. The instrumentation used was a Hewlett-Packard Gas Chromatograph interfaced with a Mass Selective Detector.

Samples TPVII and B-21(0-2) exhibited internal standard area suppression when initially analyzed. The samples were reanalyzed with similar results to confirm suppression due to sample matrix interference. The data from both analyses is included with the reanalyses labelled using "RE" suffix's.

The extraction batch extracted on 08/06/97 was not concentrated within NYSDEC holding time. A corrective action report was issued regarding this deviation.

8021 Volatile Organics - Subcontracted to AEN/MA.

TABLE VO-1.0 Aqueous
7097-1744A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS + TIC'S

All values are ug/L.

Client Sample I.D.	Method Blank	FB-3	FB 073197	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKEH	971744A-02	971744A-04	
Method Blank I.D.	VBLKEH	VBLKEH	VBLKEH	
Quant. Factor	1.00	1.00	1.00	
Chloromethane	U	U	U	10
Bromomethane	U	U	U	10
Vinyl Chloride	U	U	U	10
Chloroethane	U	U	U	10
Methylene Chloride	U	U	1J	10
Acetone	U	U	U	10
Carbon Disulfide	U	U	U	10
1,1-Dichloroethene	U	U	U	10
1,1-Dichloroethane	U	U	U	10
1,2-Dichloroethene (total)	U	U	U	10
Chloroform	U	3J	U	10
1,2-Dichloroethane	U	U	U	10
2-Butanone	U	U	U	10
1,1,1-Trichloroethane	U	U	U	10
Carbon Tetrachloride	U	U	U	10
Bromodichloromethane	U	.3J	U	10
1,2-Dichloropropane	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	10
Trichloroethene	U	U	U	10
Dibromochloromethane	U	U	U	10
1,1,2-Trichloroethane	U	U	U	10
Benzene	U	U	U	10
trans-1,3-Dichloropropene	U	U	U	10
Bromoform	U	U	U	10
4-Methyl-2-Pentanone	U	U	U	10
2-Hexanone	U	U	U	10
Tetrachloroethene	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	10
Toluene	U	U	U	10
Chlorobenzene	U	U	U	10
Ethylbenzene	U	U	U	10
Styrene	U	U	U	10
Xylene (total)	U	U	U	10
Date Received		07/31/97	08/01/97	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	08/06/97	08/06/97	08/06/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.1 Aqueous
7097-1744A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS + TIC'S

All values are ug/L.

Client Sample I.D.	TB 073197			Quant. Limits with no Dilution
Lab Sample I.D.	971744A-05			
Method Blank I.D.	VBLKEH			
Quant. Factor	1.00			
Chloromethane	U			10
Bromomethane	U			10
Vinyl Chloride	U			10
Chloroethane	U			10
Methylene Chloride	1J			10
Acetone	U			10
Carbon Disulfide	U			10
1,1-Dichloroethene	U			10
1,1-Dichloroethane	U			10
1,2-Dichloroethene (total)	U			10
Chloroform	U			10
1,2-Dichloroethane	U			10
2-Butanone	U			10
1,1,1-Trichloroethane	U			10
Carbon Tetrachloride	U			10
Bromodichloromethane	U			10
1,2-Dichloropropane	U			10
cis-1,3-Dichloropropene	U			10
Trichloroethene	U			10
Dibromochloromethane	U			10
1,1,2-Trichloroethane	U			10
Benzene	U			10
trans-1,3-Dichloropropene	U			10
Bromoform	U			10
4-Methyl-2-Pentanone	U			10
2-Hexanone	U			10
Tetrachloroethene	U			10
1,1,2,2-Tetrachloroethane	U			10
Toluene	U			10
Chlorobenzene	U			10
Ethylbenzene	U			10
Styrene	U			10
Xylene (total)	U			10
Date Received	08/01/97			
Date Extracted	N/A			
Date Analyzed	08/06/97			

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.2
7097-1744A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS + TIC'S

Aqueous

All values are ug/L.

Client Sample I.D.	Method Blank	TB 073097		Quant. Limits with no Dilution
Lab Sample I.D.	VBLKEI	971744A-03		
Method Blank I.D.	VBLKEI	VBLKEI		
Quant. Factor	1.00	1.00		
Chloromethane	U	U		10
Bromomethane	U	U		10
Vinyl Chloride	U	U		10
Chloroethane	U	U		10
Methylene Chloride	U	1JB		10
Acetone	15	U		10
Carbon Disulfide	U	U		10
1,1-Dichloroethene	U	U		10
1,1-Dichloroethane	U	U		10
1,2-Dichloroethene (total)	U	U		10
Chloroform	U	U		10
1,2-Dichloroethane	U	U		10
2-Butanone	U	U		10
1,1,1-Trichloroethane	U	U		10
Carbon Tetrachloride	U	U		10
Bromodichloromethane	U	U		10
,2-Dichloropropane	U	U		10
cis-1,3-Dichloropropene	U	U		10
Trichloroethene	U	U		10
Dibromochloromethane	U	U		10
1,1,2-Trichloroethane	U	U		10
Benzene	U	U		10
trans-1,3-Dichloropropene	U	U		10
Bromoform	U	U		10
4-Methyl-2-Pentanone	U	U		10
2-Hexanone	U	U		10
Tetrachloroethene	U	U		10
1,1,2,2-Tetrachloroethane	U	U		10
Toluene	U	U		10
Chlorobenzene	U	U		10
Ethylbenzene	U	U		10
Styrene	U	U		10
Xylene (total)	U	U		10
Date Received		07/31/97		
Date Extracted	N/A	N/A		
Date Analyzed	08/07/97	08/07/97		

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.3 Soil
7097-1744A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS + TIC'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	B-23	B-16	Quant. Limits with no Dilution
Lab Sample I.D.	VBLKBF	971744A-06	971744A-07	
Method Blank I.D.	VBLKBF	VBLKBF	VBLKBF	
Quant. Factor	1.00	1.10	1.06	
Chloromethane	U	U	U	10
Bromomethane	U	U	U	10
Vinyl Chloride	U	U	U	10
Chloroethane	U	U	U	10
Methylene Chloride	U	U	U	10
Acetone	13	29B U	23B U	10
Carbon Disulfide	U	U	U	10
1,1-Dichloroethene	U	U	U	10
1,1-Dichloroethane	U	U	U	10
1,2-Dichloroethene (total)	U	U	U	10
Chloroform	U	U	U	10
1,2-Dichloroethane	U	U	U	10
2-Butanone	U	U	U	10
1,1,1-Trichloroethane	U	U	U	10
Carbon Tetrachloride	U	U	U	10
Bromodichloromethane	U	U	U	10
.,2-Dichloropropane	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	10
Trichloroethene	U	U	U	10
Dibromochloromethane	U	U	U	10
1,1,2-Trichloroethane	U	U	U	10
Benzene	U	U	U	10
trans-1,3-Dichloropropene	U	U	U	10
Bromoform	U	U	U	10
4-Methyl-2-Pentanone	U	U	U	10
2-Hexanone	U	U	U	10
Tetrachloroethene	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	10
Toluene	U	U	U	10
Chlorobenzene	U	U	U	10
Ethylbenzene	U	U	U	10
Styrene	U	U	U	10
Xylene (total)	U	U	U	10
Date Received		08/01/97	08/01/97	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	08/07/97	08/07/97	08/07/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.4 Soil
7097-1744A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS + TIC'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-16 MS	B-16 MSD	B-17	Quant. Limits with no Dilution
Lab Sample I.D.	971744A-07MS	971744A-07 MSD	971744A-08	
Method Blank I.D.	VBLKBF	VBLKBF	VBLKBF	
Quant. Factor	1.06	1.06	1.09	
Chloromethane	U	U	U	10
Bromomethane	U	U	U	10
Vinyl Chloride	U	U	U	10
Chloroethane	U	U	U	10
Methylene Chloride	U	U	U	10
Acetone	37B	U	~~24B~~ U	10
Carbon Disulfide	U	U	U	10
1,1-Dichloroethene	49X	48X	U	10
1,1-Dichloroethane	U	U	U	10
1,2-Dichloroethene (total)	U	U	U	10
Chloroform	U	U	U	10
1,2-Dichloroethane	U	U	U	10
2-Butanone	U	U	U	10
1,1,1-Trichloroethane	U	U	U	10
Carbon Tetrachloride	U	U	U	10
Bromodichloromethane	U	U	U	10
1,2-Dichloropropane	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	10
Trichloroethene	47X	49X	U	10
Dibromochloromethane	U	U	U	10
1,1,2-Trichloroethane	U	U	U	10
Benzene	49X	48X	U	10
trans-1,3-Dichloropropene	U	U	U	10
Bromoform	U	U	U	10
4-Methyl-2-Pentanone	U	U	U	10
2-Hexanone	U	U	U	10
Tetrachloroethene	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	10
Toluene	54X	47X	U	10
Chlorobenzene	46X	45X	U	10
Ethylbenzene	U	U	U	10
Styrene	U	U	U	10
Xylene (total)	U	U	U	10
Date Received	08/01/97	08/01/97	08/01/97	
Date Extracted	N/A	N/A	N/A	
Date Analyzed	08/07/97	08/07/97	08/07/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-1.5 Soil
7097-1744A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS + TIC'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-21(0-2)			Quant. Limits with no Dilution
Lab Sample I.D.	971744A-09			
Method Blank I.D.	VBLKBF			
Quant. Factor	1.08			
Chloromethane	U			10
Bromomethane	U			10
Vinyl Chloride	U			10
Chloroethane	U			10
Methylene Chloride	2J u			10
Acetone	23B u			10
Carbon Disulfide	U			10
1,1-Dichloroethene	U			10
1,1-Dichloroethane	U			10
1,2-Dichloroethene (total)	U			10
Chloroform	U			10
1,2-Dichloroethane	U			10
2-Butanone	U			10
1,1,1-Trichloroethane	U			10
Carbon Tetrachloride	U			10
Bromodichloromethane	U			10
1,2-Dichloropropane	U			10
cis-1,3-Dichloropropene	U			10
Trichloroethene	U			10
Dibromochloromethane	U			10
1,1,2-Trichloroethane	U			10
Benzene	U			10
trans-1,3-Dichloropropene	U			10
Bromoform	U			10
4-Methyl-2-Pentanone	U			10
2-Hexanone	U			10
Tetrachloroethene	U			10
1,1,2,2-Tetrachloroethane	U			10
Toluene	1J			10
Chlorobenzene	U			10
Ethylbenzene	U			10
Styrene	U			10
Xylene (total)	U			10
Date Received	08/01/97			
Date Extracted	N/A			
Date Analyzed	08/07/97			

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-2.3
7097-1744A
GERAGHTY & MILLER
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: VBLKDE

Lab Sample Id: VBLKDE Client Sample Id: Method Blank

CAS#	Compound	RT	Estimated Conc., ug/Kg
NONE DETECTED			

Lab Sample Id: 971744A-01 Client Sample Id: TPVII S

CAS#	Compound	RT	Estimated Conc., ug/Kg
NONE DETECTED			

See Appendix for qualifier definitions

TABLE SV-1.0 Aqueous
7097-1744A
GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	Method Blank	FB-3	FB 073197	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKSJ	971744A-02	971744A-04	
Method Blank I.D.	SBLKSJ	SBLKSJ	SBLKSJ	
Quant. Factor	1.00	1.00	1.00	
Phenol	U	U	U	10
bis(2-Chloroethyl)ether	U	U	U	10
2-Chlorophenol	U	U	U	10
1,3-Dichlorobenzene	U	U	U	10
1,4-Dichlorobenzene	U	U	U	10
1,2-Dichlorobenzene	U	U	U	10
2-Methylphenol	U	U	U	10
2,2'-oxybis(1-Chloropropane)	U	U	U	10
4-Methylphenol	U	U	U	10
N-Nitroso-di-n-propylamine	U	U	U	10
Hexachloroethane	U	U	U	10
Nitrobenzene	U	U	U	10
Isophorone	U	U	U	10
2-Nitrophenol	U	U	U	10
2,4-Dimethylphenol	U	U	U	10
bis(2-Chloroethoxy)methane	U	U	U	10
2,4-Dichlorophenol	U	U	U	10
1,2,4-Trichlorobenzene	U	U	U	10
Naphthalene	U	U	U	10
4-Chloroaniline	U	U	U	10
Hexachlorobutadiene	U	U	U	10
4-Chloro-3-methylphenol	U	U	U	10
2-Methylnaphthalene	U	U	U	10
Hexachlorocyclopentadiene	U	U	U	10
2,4,6-Trichlorophenol	U	U	U	10
2,4,5-Trichlorophenol	U	U	U	25
2-Chloronaphthalene	U	U	U	10
2-Nitroaniline	U	U	U	25
Dimethylphthalate	U	U	U	10
Acenaphthylene	U	U	U	10
2,6-Dinitrotoluene	U	U	U	10
3-Nitroaniline	U	U	U	25
Acenaphthene	U	U	U	10
2,4-Dinitrophenol	U	U	U	25
4-Nitrophenol	U	U	U	25
Date Received		07/31/97	08/01/97	
Date Extracted	08/05/97	08/05/97	08/05/97	
Date Analyzed	08/26/97	08/26/97	08/26/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.0
7097-1744A
GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

Aqueous

All values are ug/L.

Client Sample I.D.	Method Blank	FB-3	FB 073197	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKSJ	971744A-02	971744A-04	
Method Blank I.D.	SBLKSJ	SBLKSJ	SBLKSJ	
Quant. Factor	1.00	1.00	1.00	
Dibenzofuran	U	U	U	10
2,4-Dinitrotoluene	U	U	U	10
Diethylphthalate	.2J	U	.3JB ll	10
4-Chlorophenyl-phenylether	U	U	U	10
Fluorene	U	U	U	10
4-Nitroaniline	U	U	U	25
4,6-Dinitro-2-methylphenol	U	U	U	25
N-Nitrosodiphenylamine (1)	U	U	U	10
4-Bromophenyl-phenylether	U	U	U	10
Hexachlorobenzene	U	U	U	10
Pentachlorophenol	U	U	U	25
Phenanthrene	U	U	U	10
Anthracene	U	U	U	10
Carbazole	U	U	U	10
Di-n-butylphthalate	.6J	.3JB ll	.5JB ll	10
Fluoranthene	U	U	U	10
Pyrene	U	U	U	10
Butylbenzylphthalate	U	U	U	10
3,3'-Dichlorobenzidine	U	U	U	10
Benzo(a)anthracene	U	U	U	10
Chrysene	U	U	U	10
bis(2-Ethylhexyl)phthalate	1J	.9JB ll	4JB ll	10
Di-n-octylphthalate	U	U	U	10
Benzo(b)fluoranthene	U	U	U	10
Benzo(k)fluoranthene	U	U	U	10
Benzo(a)pyrene	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	10
Dibenz(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	10
Date Received		07/31/97	08/01/97	
Date Extracted	08/05/97	08/05/97	08/05/97	
Date Analyzed	08/26/97	08/26/97	08/26/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.1
7097-1744A
GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

Soil

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	TPVII S	TPVII S RE	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKKJ	971744A-01	971744A-01RE	
Method Blank I.D.	SBLKKJ	SBLKKJ	SBLKKJ	
Quant. Factor	1.00	1.10	1.10	
Phenol	U	U	U	330
bis(2-Chloroethyl)ether	U	U	U	330
2-Chlorophenol	U	U	U	330
1,3-Dichlorobenzene	U	U	U	330
1,4-Dichlorobenzene	U	U	U	330
1,2-Dichlorobenzene	U	U	U	330
2-Methylphenol	U	U	U	330
2,2'-oxybis(1-Chloropropane)	U	U	U	330
4-Methylphenol	U	U	U	330
N-Nitroso-di-n-propylamine	U	U	U	330
Hexachloroethane	U	U	U	330
Nitrobenzene	U	U	U	330
Isophorone	U	U	U	330
2-Nitrophenol	U	U	U	330
2,4-Dimethylphenol	U	U	U	330
bis(2-Chloroethoxy)methane	U	U	U	330
2,4-Dichlorophenol	U	U	U	330
1,2,4-Trichlorobenzene	U	U	U	330
Naphthalene	U	50J	52J	330
4-Chloroaniline	U	U	U	330
Hexachlorobutadiene	U	U	U	330
4-Chloro-3-methylphenol	U	U	U	330
2-Methylnaphthalene	U	110J	120J	330
Hexachlorocyclopentadiene	U	U	U	330
2,4,6-Trichlorophenol	U	U	U	330
2,4,5-Trichlorophenol	U	U	U	830
2-Chloronaphthalene	U	U	U	330
2-Nitroaniline	U	U	U	830
Dimethylphthalate	U	U	U	330
Acenaphthylene	U	U	U	330
2,6-Dinitrotoluene	U	U	U	330
3-Nitroaniline	U	U	U	830
Acenaphthene	U	U	U	330
2,4-Dinitrophenol	U	U	U	830
4-Nitrophenol	U	U	U	830
Date Received		07/31/97	07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/26/97	08/26/97	08/26/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.1
7097-1744A
GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

All values are ug/Kg dry weight basis.

Client Sample I.D. Lab Sample I.D. Method Blank I.D. Quant. Factor	Method Blank SBLKKJ SBLKKJ 1.00	TPVII S 971744A-01 SBLKKJ 1.10	TPVII S RE 971744A-01RE SBLKKJ 1.10	Quant. Limits with no Dilution
Dibenzofuran	U	U	U	330
2,4-Dinitrotoluene	U	U	U	330
Diethylphthalate	U	U	U	330
4-Chlorophenyl-phenylether	U	U	U	330
Fluorene	U	U	U	330
4-Nitroaniline	U	U	U	830
4,6-Dinitro-2-methylphenol	U	U	U	830
N-Nitrosodiphenylamine (1)	U	U	U	330
4-Bromophenyl-phenylether	U	U	U	330
Hexachlorobenzene	U	U	U	330
Pentachlorophenol	U	1100	1500	830
Phenanthrene	U	74J	88J	330
Anthracene	U	32J	43J	330
Carbazole	U	U	U	330
Di-n-butylphthalate	8J	U	U	330
Fluoranthene	U	U	U	330
Pyrene	U	220J	250J	330
Butylbenzylphthalate	U	U	U	330
3,3'-Dichlorobenzidine	U	U	U	330
Benzo(a)anthracene	U	U	U	330
Chrysene	U	U	U	330
bis(2-Ethylhexyl)phthalate	U	U	U	330
Di-n-octylphthalate	U	U	U	330
Benzo(b)fluoranthene	U	U	U	330
Benzo(k)fluoranthene	U	U	U	330
Benzo(a)pyrene	U	U	U	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
Dibenz(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	330
Date Received		07/31/97	07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/26/97	08/26/97	08/26/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Lab File ID: H3693 DFTPP Injection Date:08/22/97

Instrument ID: HP5970H DFTPP Injection Time:0720

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.1
68	Less than 2.0% of mass 69	0.7 (0.9)1
69	Present	73.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	47.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	16.0
365	Greater than 1.0% of mass 198	1.03
441	Present, but less than mass 443	5.2
442	40.0 - 110.0% of mass 198	40.8
443	17.0 - 23.0% of mass 442	7.9 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD025	SSTD025	>H3693	08/22/97	0720
02	CESS POOL LQ	971788B-01	>H3694	08/22/97	0815
03	FB 080197	971788B-11	>H3695	08/22/97	0903
04	CESS POOL SO	971788B-02	>H3698	08/22/97	1214
05	B-22	971788B-03	>H3699	08/22/97	1303
06	B-13	971788B-04	>H3700	08/22/97	1351
07	B-12	971788B-06	>H3701	08/22/97	1502
08	B-22RE	971788B-03RE	>H3704	08/22/97	1909
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Lab File ID: H3706 DFTPP Injection Date:08/25/97

Instrument ID: HP5970H DFTPP Injection Time:1634

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.4
68	Less than 2.0% of mass 69	0.3 (0.5)1
69	Present	72.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	44.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	18.4
365	Greater than 1.0% of mass 198	1.61
441	Present, but less than mass 443	7.4
442	40.0 - 110.0% of mass 198	55.1
443	17.0 - 23.0% of mass 442	10.6 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD025	SSTD025	>H3707	08/25/97	1836
02	B-13RE	971788B-04RE	>H3709	08/25/97	2039
03	B-12RE	971788B-06RE	>H3710	08/25/97	2127
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Instrument ID: HP5970H Calibration Date(s): 08/14/97 _____

Calibration Times: 1100 1415

LAB FILE ID: RRF10 = >H3629 RRF25 = >H3630
RRF40 = >H3631 RRF60 = >H3632 RRF80 = >H3633

COMPOUND		RRF10	RRF25	RRF40	RRF60	RRF80	$\overline{RRF}$	% RSD	
Phenol	*	2.046	1.809	1.847	1.835	1.732	1.854	6.3	*
Bis(2-Chloroethyl)ether	*	1.460	1.368	1.372	1.260	1.186	1.329	8.0	*
2-Chlorophenol	*	1.422	1.432	1.416	1.350	1.264	1.377	5.1	*
1,3-Dichlorobenzene	*	1.473	1.449	1.433	1.325	1.247	1.385	6.9	*
1,4-Dichlorobenzene	*	1.536	1.527	1.500	1.373	1.279	1.443	7.8	*
Benzyl alcohol	*	0.921	0.895	0.858	0.774	0.711	0.832	10.5	*
1,2-Dichlorobenzene	*	1.468	1.455	1.409	1.270	1.101	1.341	11.6	*
2-Methylphenol	*	1.383	1.348	1.300	1.187	1.101	1.264	9.3	*
2,2'-oxybis(1-Chloropropane)	*	3.396	3.017	2.944	2.734	2.570	2.932	10.7	*
4-Methylphenol	*	1.488	1.406	1.330	1.181	1.032	1.287	14.2	*
N-Nitroso-di-n-propylamine	*	1.413	1.294	1.242	1.133	1.028	1.222	12.1	*
Hexachloroethane	*	0.752	0.734	0.728	0.643	0.530	0.677	13.7	*
Nitrobenzene	*	0.419	0.418	0.410	0.387	0.372	0.401	5.2	*
Isophorone	*	0.924	0.896	0.872	0.840	0.815	0.869	5.0	*
2-Nitrophenol	*	0.232	0.237	0.237	0.222	0.215	0.229	4.3	*
2,4-Dimethylphenol	*	0.360	0.380	0.370	0.351	0.338	0.360	4.5	*
Benzoic acid	*	0.196	0.237	0.255	0.267	0.273	0.246	12.6	*
Bis(2-Chloroethoxy)methane	*	0.573	0.556	0.536	0.506	0.489	0.532	6.5	*
2,4-Dichlorophenol	*	0.307	0.314	0.303	0.285	0.273	0.296	5.7	*
1,2,4-Trichlorobenzene	*	0.323	0.322	0.312	0.292	0.276	0.305	6.7	*
Naphthalene	*	1.078	1.034	0.972	0.886	0.823	0.959	10.9	*
4-Chloroaniline	*	0.448	0.430	0.427	0.397	0.362	0.413	8.2	*
Hexachlorobutadiene	*	0.160	0.161	0.156	0.147	0.139	0.153	6.1	*
4-Chloro-3-methylphenol	*	0.368	0.378	0.368	0.348	0.333	0.359	5.1	*
2-Methylnaphthalene	*	0.676	0.611	0.524	0.491	0.442	0.549	17.1	*L
Hexachlorocyclopentadiene	*	0.146	0.211	0.256	0.256	0.250	0.224	21.1	*L
2,4,6-Trichlorophenol	*	0.386	0.397	0.409	0.391	0.364	0.389	4.3	*
2,4,5-Trichlorophenol	*	0.415	0.436	0.449	0.412	0.388	0.420	5.6	*
2-Chloronaphthalene	*	1.155	1.160	1.153	1.078	0.997	1.109	6.4	*
2-Nitroaniline	*	0.523	0.538	0.547	0.525	0.501	0.527	3.3	*
Dimethylphthalate	*	1.437	1.482	1.467	1.383	1.310	1.416	5.0	*
Acenaphthylene	*	2.019	1.988	1.933	1.791	1.646	1.875	8.3	*
2,6-Dinitrotoluene	*	0.365	0.390	0.406	0.387	0.369	0.383	4.4	*
3-Nitroaniline	*	0.414	0.385	0.385	0.367	0.343	0.379	6.9	*
Acenaphthene	*	1.184	1.166	1.127	1.031	0.939	1.089	9.4	*
2,4-Dinitrophenol	*	0.100	0.177	0.242	0.255	0.269	0.209	33.6	*L
4-Nitrophenol	*	0.129	0.143	0.156	0.155	0.153	0.147	7.8	*

* Compounds with required minimum RRF and maximum %RSD values.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Instrument ID: HP5970H Calibration Date(s): 08/14/97 _____

Calibration Times: 1100 1415

LAB FILE ID: RRF10 = >H3629 RRF25 = >H3630
RRF40 = >H3631 RRF60 = >H3632 RRF80 = >H3633

COMPOUND		RRF10	RRF25	RRF40	RRF60	RRF80	$\overline{RRF}$	% RSD	
Dibenzofuran	*	1.686	1.629	1.584	1.452	1.329	1.536	9.4	*
2,4-Dinitrotoluene	*	0.509	0.544	0.576	0.549	0.535	0.543	4.4	*
Diethylphthalate	*	1.572	1.541	1.556	1.429	1.295	1.479	7.9	*
4-Chlorophenyl-phenyl Ether	*	0.633	0.619	0.619	0.550	0.493	0.583	10.2	*
Fluorene	*	1.376	1.310	1.252	1.099	0.972	1.202	13.7	*
4-Nitroaniline	*	0.465	0.478	0.489	0.475	0.469	0.475	1.9	*
4,6-Dinitro-2-methylphenol	*	0.147	0.180	0.199	0.196	0.188	0.182	11.5	*
N-Nitrosodiphenylamine	*	0.545	0.525	0.505	0.460	0.413	0.490	10.8	*
4-Bromophenyl-phenylether	*	0.198	0.192	0.195	0.179	0.168	0.186	6.8	*
Hexachlorobenzene	*	0.235	0.231	0.237	0.220	0.208	0.226	5.4	*
Pentachlorophenol	*	0.132	0.147	0.158	0.152	0.149	0.148	6.5	*
Phenanthrene	*	1.136	1.099	1.053	0.964	0.887	1.028	9.9	*
Anthracene	*	1.166	1.114	1.072	0.983	0.902	1.047	10.1	*
Carbazole	*	1.114	1.035	1.010	0.956	0.898	1.003	8.1	*
Di-n-butylphthalate	*	1.694	1.644	1.593	1.465	1.353	1.550	9.0	*
Fluoranthene	*	1.194	1.140	1.121	1.030	0.950	1.087	8.9	*
Pyrene	*	1.540	1.461	1.381	1.325	1.266	1.395	7.8	*
Butylbenzylphthalate	*	0.949	0.951	0.911	0.910	0.855	0.915	4.3	*
3,3'-Dichlorobenzidine	*	0.412	0.425	0.375	0.371	0.325	0.382	10.3	*
Benzo(a)anthracene	*	1.275	1.239	1.187	1.103	1.045	1.170	8.1	*
Chrysene	*	1.253	1.204	1.163	1.124	1.067	1.162	6.2	*
bis(2-Ethylhexyl)phthalate	*	1.385	1.381	1.277	1.226	1.128	1.279	8.5	*
Di-n-octylphthalate	*	2.276	2.373	2.235	2.142	2.029	2.211	5.9	*
Benzo(b)fluoranthene	*	1.232	1.306	1.264	1.394	1.240	1.287	5.2	*
Benzo(k)fluoranthene	*	1.092	1.066	1.088	0.826	0.842	0.983	13.9	*
Benzo(a)pyrene	*	1.090	1.138	1.134	1.078	1.030	1.094	4.1	*
Indeno(1,2,3-cd)pyrene	*	1.148	1.076	1.074	0.996	0.938	1.046	7.7	*
Dibenz(a,h)anthracene	*	0.936	0.900	0.877	0.809	0.760	0.856	8.3	*
Benzo(g,h,i)perylene	*	0.979	0.944	0.930	0.865	0.807	0.905	7.6	*
Nitrobenzene-D5	*	0.422	0.433	0.425	0.406	0.391	0.415	4.0	*
2-Fluorobiphenyl	*	1.268	1.220	1.203	1.115	1.018	1.165	8.5	*
Terphenyl-D14	*	0.708	0.700	0.683	0.660	0.634	0.677	4.5	*
Phenol-D5	*	1.831	1.828	1.811	1.700	1.618	1.758	5.4	*
2-Fluorophenol	*	1.104	1.149	1.183	1.139	1.101	1.135	3.0	*
2,4,6-Tribromophenol	*	0.174	0.181	0.201	0.190	0.187	0.187	5.4	*

(1) Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Instrument ID: HP5970H Calibration Date: 08/20/97 Time: 1123

Lab File ID: >H3661 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Phenol	1.854	1.868		0.8	20.0
bis(2-Chloroethyl)ether	1.329	1.465		10.2	
2-Chlorophenol	1.377	1.382		0.4	
1,3-Dichlorobenzene	1.385	1.409		1.7	
1,4-Dichlorobenzene	1.443	1.473		2.1	20.0
Benzyl alcohol	0.832	0.879		5.6	
1,2-Dichlorobenzene	1.341	1.418		5.7	
2-Methylphenol	1.264	1.366		8.1	
2,2'-oxybis(1-Chloropropane)	2.932	3.142		7.2	
4-Methylphenol	1.297	1.450		12.7	
N-Nitroso-di-n-propylamine	1.222	1.351	0.050	10.6	
Hexachloroethane	0.677	0.741		9.4	
Nitrobenzene	0.401	0.428		6.7	
Isophorone	0.869	0.858		-1.3	
2-Nitrophenol	0.229	0.221		-3.5	20.0
2,4-Dimethylphenol	0.360	0.360		0.0	
Benzoic acid	0.246	0.209		-15.0	
bis(2-Chloroethoxy)methane	0.532	0.530		-0.4	
2,4-Dichlorophenol	0.296	0.289		-2.4	20.0
1,2,4-Trichlorobenzene	0.305	0.299		-2.0	
Naphthalene	0.959	0.962		0.3	
4-Chloroaniline	0.413	0.404		-2.2	
Hexachlorobutadiene	0.153	0.146		-4.6	20.0
4-Chloro-3-methylphenol	0.359	0.378		5.3	20.0
2-Methylnaphthalene	0.549	0.592		7.8	
Hexachlorocyclopentadiene	0.224	0.178	0.050	-20.5	
2,4,6-Trichlorophenol	0.389	0.366		-5.9	20.0
2,4,5-Trichlorophenol	0.420	0.398		-5.2	
2-Chloronaphthalene	1.109	1.102		-0.6	
2-Nitroaniline	0.527	0.538		2.1	
Dimethylphthalate	1.416	1.350		-4.7	
Acenaphthylene	1.875	1.863		-0.6	
2,6-Dinitrotoluene	0.383	0.371		-3.1	
3-Nitroaniline	0.379	0.379		0.0	
Acenaphthene	1.089	1.085		-0.4	20.0
2,4-Dinitrophenol	0.209	0.197	0.050	-5.7	
4-Nitrophenol	0.147	0.144	0.050	-2.0	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Instrument ID: HP5970H Calibration Date: 08/20/97 Time: 1123

Lab File ID: >H3661 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Dibenzofuran	1.536	1.585		3.2	
2,4-Dinitrotoluene	0.543	0.528		-2.8	
Diethylphthalate	1.479	1.416		-4.3	
4-Chlorophenyl-Phenyl Ether	0.583	0.588		0.8	
Fluorene	1.202	1.259		4.7	
4-Nitroaniline	0.475	0.354		-25.5	
4,6-Dinitro-2-methylphenol	0.182	0.177		-2.8	
N-Nitrosodiphenylamine	0.490	0.500		2.0	20.0
4-Bromophenyl-phenylether	0.186	0.187		0.5	
Hexachlorobenzene	0.226	0.241		6.6	
Pentachlorophenol	0.148	0.137		-7.4	20.0
Phenanthrene	1.028	1.049		2.0	
Anthracene	1.047	1.057		1.0	
Carbazole	1.003	1.038		3.5	
Di-n-butylphthalate	1.550	1.547		-0.2	
Fluoranthene	1.087	1.107		1.8	20.0
Pyrene	1.395	1.364		-2.2	
Butylbenzylphthalate	0.915	0.850		-7.1	
3,3'-Dichlorobenzidine	0.382	0.381		-0.3	
Benzo(a)anthracene	1.170	1.172		0.2	
Chrysene	1.162	1.134		-2.4	
bis(2-Ethylhexyl)phthalate	1.279	1.244		-2.7	
Di-n-octylphthalate	2.211	1.940		-12.2	20.0
Benzo(b)fluoranthene	1.287	1.062		-17.5	
Benzo(k)fluoranthene	0.983	1.060		7.8	
Benzo(a)pyrene	1.094	0.985		-10.0	20.0
Indeno(1,2,3-cd)pyrene	1.046	0.962		-8.0	
Dibenz(a,h)anthracene	0.856	0.809		-5.5	
Benzo(g,h,i)perylene	0.905	0.832		-8.1	
Nitrobenzene-D5	0.415	0.434		4.6	
2-Fluorobiphenyl	1.165	1.114		-4.4	
Terphenyl-D14	0.677	0.782		15.5	
Phenol-D5	1.758	1.897		7.9	
2-Fluorophenol	1.135	1.161		2.3	
2,4,6-Tribromophenol	0.187	0.203		8.6	

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Instrument ID: HP5970H Calibration Date: 08/21/97 Time: 1147

Lab File ID: >H3677 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Phenol	1.854	2.038		9.9	20.0
bis(2-Chloroethyl)ether	1.329	1.712		28.8	
2-Chlorophenol	1.377	1.473		7.0	
1,3-Dichlorobenzene	1.385	1.444		4.3	
1,4-Dichlorobenzene	1.443	1.541		6.8	20.0
Benzyl alcohol	0.832	0.967		16.2	
1,2-Dichlorobenzene	1.341	1.469		9.5	
2-Methylphenol	1.264	1.512		19.6	
2,2'-oxybis(1-Chloropropane)	2.932	4.234		44.4	
4-Methylphenol	1.287	1.602		24.5	
N-Nitroso-di-n-propylamine	1.222	1.700	0.050	39.1	
Hexachloroethane	0.677	0.826		22.0	
Nitrobenzene	0.401	0.448		11.7	
Isophorone	0.869	0.955		9.9	
2-Nitrophenol	0.229	0.221		-3.5	20.0
2,4-Dimethylphenol	0.360	0.388		7.8	
Benzoic acid	0.246	0.227		-7.7	
bis(2-Chloroethoxy)methane	0.532	0.586		10.2	
2,4-Dichlorophenol	0.296	0.285		-3.7	20.0
1,2,4-Trichlorobenzene	0.305	0.300		-1.6	
Naphthalene	0.959	1.006		4.9	
4-Chloroaniline	0.413	0.430		4.1	
Hexachlorobutadiene	0.153	0.159		3.9	20.0
4-Chloro-3-methylphenol	0.359	0.429		19.5	20.0
2-Methylnaphthalene	0.549	0.624		13.7	
Hexachlorocyclopentadiene	0.224	0.169	0.050	-24.6	
2,4,6-Trichlorophenol	0.389	0.366		-5.9	20.0
2,4,5-Trichlorophenol	0.420	0.399		-5.0	
2-Chloronaphthalene	1.109	1.090		-1.7	
2-Nitroaniline	0.527	0.618		17.3	
Dimethylphthalate	1.416	1.428		0.8	
Acenaphthylene	1.875	1.949		4.0	
2,6-Dinitrotoluene	0.383	0.391		2.1	
3-Nitroaniline	0.379	0.397		4.8	
Acenaphthene	1.089	1.135		4.2	20.0
2,4-Dinitrophenol	0.209	0.227	0.050	8.6	
4-Nitrophenol	0.147	0.163	0.050	10.9	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Instrument ID: HP5970H Calibration Date: 08/21/97 Time: 1147

Lab File ID: >H3677 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Dibenzofuran	1.536	1.652		7.6	
2,4-Dinitrotoluene	0.543	0.569		4.8	
Diethylphthalate	1.479	1.596		7.9	
4-Chlorophenyl-Phenyl Ether	0.583	0.638		9.4	
Fluorene	1.202	1.318		9.6	
4-Nitroaniline	0.475	0.454		-4.4	
4,6-Dinitro-2-methylphenol	0.182	0.184		1.1	
N-Nitrosodiphenylamine	0.490	0.492		0.4	20.0
4-Bromophenyl-phenylether	0.186	0.189		1.6	
Hexachlorobenzene	0.226	0.237		4.9	
Pentachlorophenol	0.148	0.154		4.0	20.0
Phenanthrene	1.028	1.048		1.9	
Anthracene	1.047	1.086		3.7	
Carbazole	1.003	1.048		4.5	
Di-n-butylphthalate	1.550	1.674		8.0	
Fluoranthene	1.087	1.169		7.5	20.0
Pyrene	1.395	1.364		-2.2	
Butylbenzylphthalate	0.915	0.930		1.6	
3,3'-Dichlorobenzidine	0.382	0.416		8.9	
Benzo(a)anthracene	1.170	1.201		2.6	
Chrysene	1.162	1.182		1.7	
bis(2-Ethylhexyl)phthalate	1.279	1.326		3.7	
Di-n-octylphthalate	2.211	2.261		2.3	20.0
Benzo(b)fluoranthene	1.287	1.204		-6.4	
Benzo(k)fluoranthene	0.983	1.050		6.8	
Benzo(a)pyrene	1.094	1.071		-2.1	20.0
Indeno(1,2,3-cd)pyrene	1.046	1.047		0.1	
Dibenz(a,h)anthracene	0.856	0.855		-0.1	
Benzo(g,h,i)perylene	0.905	0.895		-1.1	
Nitrobenzene-D5	0.415	0.454		9.4	
2-Fluorobiphenyl	1.165	1.121		-3.8	
Terphenyl-D14	0.677	0.682		0.7	
Phenol-D5	1.758	2.048		16.5	
2-Fluorophenol	1.135	1.145		0.9	
2,4,6-Tribromophenol	0.187	0.220		17.6	

(1) Cannot be separated from Diphenylamine

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Instrument ID: HP5970H Calibration Date: 08/22/97 Time: 0720

Lab File ID: >H3693 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Phenol	1.854	1.879		1.4	20.0
bis(2-Chloroethyl)ether	1.329	1.472		10.8	
2-Chlorophenol	1.377	1.392		1.1	
1,3-Dichlorobenzene	1.385	1.417		2.3	
1,4-Dichlorobenzene	1.443	1.470		1.9	20.0
Benzyl alcohol	0.832	0.855		2.8	
1,2-Dichlorobenzene	1.341	1.450		8.1	
2-Methylphenol	1.264	1.441		14.0	
2,2'-oxybis(1-Chloropropane)	2.932	3.382		15.3	
4-Methylphenol	1.287	1.510		17.3	
N-Nitroso-di-n-propylamine	1.222	1.517	0.050	24.1	
Hexachloroethane	0.677	0.797		17.7	
Nitrobenzene	0.401	0.411		2.5	
Isophorone	0.869	0.891		2.5	
2-Nitrophenol	0.229	0.214		-6.6	20.0
2,4-Dimethylphenol	0.360	0.363		0.8	
Benzoic acid	0.246	0.191		-22.4	
bis(2-Chloroethoxy)methane	0.532	0.534		0.4	
2,4-Dichlorophenol	0.296	0.286		-3.4	20.0
1,2,4-Trichlorobenzene	0.305	0.304		-0.3	
Naphthalene	0.959	0.972		1.4	
4-Chloroaniline	0.413	0.397		-3.9	
Hexachlorobutadiene	0.153	0.166		8.5	20.0
4-Chloro-3-methylphenol	0.359	0.387		7.8	20.0
2-Methylnaphthalene	0.549	0.603		9.8	
Hexachlorocyclopentadiene	0.224	0.195	0.050	-12.9	
2,4,6-Trichlorophenol	0.389	0.362		-6.9	20.0
2,4,5-Trichlorophenol	0.420	0.400		-4.8	
2-Chloronaphthalene	1.109	1.058		-4.6	
2-Nitroaniline	0.527	0.508		-3.6	
Dimethylphthalate	1.416	1.403		-0.9	
Acenaphthylene	1.875	1.862		-0.7	
2,6-Dinitrotoluene	0.383	0.378		-1.3	
3-Nitroaniline	0.379	0.336		-11.3	
Acenaphthene	1.089	1.102		1.2	20.0
2,4-Dinitrophenol	0.209	0.198	0.050	-5.3	
4-Nitrophenol	0.147	0.132	0.050	-10.2	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Instrument ID: HP5970H Calibration Date: 08/22/97 Time: 0720

Lab File ID: >H3693 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Dibenzofuran	1.536	1.587		3.3	
2,4-Dinitrotoluene	0.543	0.516		-5.0	
Diethylphthalate	1.479	1.4 5		-0.3	
4-Chlorophenyl-Phenyl Ether	0.583	0.615		5.5	
Fluorene	1.202	1.?56		4.5	
4-Nitroaniline	0.475	0.377		-20.6	
4,6-Dinitro-2-methylphenol	0.182	0.177		-2.8	
N-Nitrosodiphenylamine	0.490	0.485		-1.0	20.0
4-Bromophenyl-phenylether	0.186	0.197		5.9	
Hexachlorobenzene	0.226	0.260		15.0	
Pentachlorophenol	0.148	0.142		-4.0	20.0
Phenanthrene	1.028	1.032		0.4	
Anthracene	1.047	1.058		1.0	
Carbazole	1.003	0.945		-5.8	
Di-n-butylphthalate	1.550	1.562		0.8	
Fluoranthene	1.087	1.082		-0.5	20.0
Pyrene	1.395	1.387		-0.6	
Butylbenzylphthalate	0.915	0.844		-7.8	
3,3'-Dichlorobenzidine	0.382	0.389		1.8	
Benzo(a)anthracene	1.170	1.338		14.4	
Chrysene	1.162	1.038		-10.7	
bis(2-Ethylhexyl)phthalate	1.279	1.236		-3.4	
Di-n-octylphthalate	2.211	1.848		-16.4	20.0
Benzo(b)fluoranthene	1.287	1.262		-1.9	
Benzo(k)fluoranthene	0.983	0.848		-13.7	
Benzo(a)pyrene	1.094	1.030		-5.8	20.0
Indeno(1,2,3-cd)pyrene	1.046	1.029		-1.6	
Dibenz(a,h)anthracene	0.856	0.855		-0.1	
Benzo(g,h,i)perylene	0.905	0.889		-1.8	
Nitrobenzene-D5	0.415	0.420		1.2	
2-Fluorobiphenyl	1.165	1.116		-4.2	
Terphenyl-D14	0.677	0.687		1.5	
Phenol-D5	1.758	1.833		4.3	
2-Fluorophenol	1.135	1.074		-5.4	
2,4,6-Tribromophenol	0.187	0.217		16.0	

(1) Cannot be separated from Diphenylamine

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Instrument ID: HP5970H Calibration Date: 08/25/97 Time: 1836

Lab File ID: >H3707 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Phenol	1.854	2.175		17.3	20.0
bis(2-Chloroethyl)ether	1.329	1.711		28.7	
2-Chlorophenol	1.377	1.512		9.8	
1,3-Dichlorobenzene	1.385	1.470		6.1	
1,4-Dichlorobenzene	1.443	1.546		7.1	20.0
Benzyl alcohol	0.832	1.003		20.6	
1,2-Dichlorobenzene	1.341	1.476		10.1	
2-Methylphenol	1.264	1.545		22.2	
2,2'-oxybis(1-Chloropropane)	2.932	4.304		46.8	
4-Methylphenol	1.187	1.704		32.4	
N-Nitroso-di-n-propylamine	1.222	1.701	0.050	39.2	
Hexachloroethane	0.677	0.793		17.1	
Nitrobenzene	0.401	0.449		12.0	
Isophorone	0.869	0.918		5.6	
2-Nitrophenol	0.229	0.226		-1.3	20.0
2,4-Dimethylphenol	0.360	0.384		6.7	
Benzoic acid	0.246	0.141		-42.7	
bis(2-Chloroethoxy)methane	0.532	0.575		8.1	
2,4-Dichlorophenol	0.296	0.296		0.0	20.0
1,2,4-Trichlorobenzene	0.305	0.302		-1.0	
Naphthalene	0.959	1.022		6.6	
4-Chloroaniline	0.413	0.470		13.8	
Hexachlorobutadiene	0.153	0.147		-3.9	20.0
4-Chloro-3-methylphenol	0.359	0.409		13.9	20.0
2-Methylnaphthalene	0.549	0.640		16.6	
Hexachlorocyclopentadiene	0.224	0.166	0.050	-25.9	
2,4,6-Trichlorophenol	0.389	0.369		-5.1	20.0
2,4,5-Trichlorophenol	0.420	0.397		-5.5	
2-Chloronaphthalene	1.109	1.094		-1.4	
2-Nitroaniline	0.527	0.612		16.1	
Dimethylphthalate	1.416	1.409		-0.5	
Acenaphthylene	1.875	1.965		4.8	
2,6-Dinitrotoluene	0.383	0.380		-0.8	
3-Nitroaniline	0.379	0.426		12.4	
Acenaphthene	1.089	1.150		5.6	20.0
2,4-Dinitrophenol	0.209	0.173	0.050	-17.2	
4-Nitrophenol	0.147	0.155	0.050	5.4	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Instrument ID: HP5970H Calibration Date: 08/25/97 Time: 1836

Lab File ID: >H3707 Init. Calib. Date(s): 08/14/97 _____

Init. Calib. Times: 1100 1415

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Dibenzofuran	1.536	1.693		10.2	
2,4-Dinitrotoluene	0.543	0.553		1.8	
Diethylphthalate	1.479	1.549		4.7	
4-Chlorophenyl-Phenyl Ether	0.583	0.642		10.1	
Fluorene	1.202	1.350		12.3	
4-Nitroaniline	0.475	0.456		-4.0	
4,6-Dinitro-2-methylphenol	0.182	0.177		-2.8	
N-Nitrosodiphenylamine	0.490	0.504		2.9	20.0
4-Bromophenyl-phenylether	0.186	0.192		3.2	
Hexachlorobenzene	0.226	0.236		4.4	
Pentachlorophenol	0.148	0.147		-0.7	20.0
Phenanthrene	1.028	1.067		3.8	
Anthracene	1.047	1.087		3.8	
Carbazole	1.003	1.080		7.7	
Di-n-butylphthalate	1.550	1.664		7.4	
Fluoranthene	1.087	1.197		10.1	20.0
Pyrene	1.395	1.466		5.1	
Butylbenzylphthalate	0.915	0.957		4.6	
3,3'-Dichlorobenzidine	0.382	0.485		27.0	
Benzo(a)anthracene	1.170	1.267		8.3	
Chrysene	1.162	1.202		3.4	
bis(2-Ethylhexyl)phthalate	1.279	1.395		9.1	
Di-n-octylphthalate	2.211	2.391		8.1	20.0
Benzo(b)fluoranthene	1.287	1.322		2.7	
Benzo(k)fluoranthene	0.983	1.151		17.1	
Benzo(a)pyrene	1.094	1.188		8.6	20.0
Indeno(1,2,3-cd)pyrene	1.046	1.145		9.5	
Dibenz(a,h)anthracene	0.856	0.952		11.2	
Benzo(g,h,i)perylene	0.905	0.950		5.0	
Nitrobenzene-D5	0.415	0.443		6.8	
2-Fluorobiphenyl	1.165	1.125		-3.4	
Terphenyl-D14	0.677	0.720		6.4	
Phenol-D5	1.758	2.127		21.0	
2-Fluorophenol	1.135	1.174		3.4	
2,4,6-Tribromophenol	0.187	0.218		16.6	

(1) Cannot be separated from Diphenylamine

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 1788B SDG No.: B1788

GC Column: DB-1701 ID: 0.53 (mm)

	SAMPLE NO.	TCX %REC	#	DCB %REC	#	OTHER %REC	#	OTHER %REC	#	TOT OUT
01	PBLK81	89		99						0
02	PBLK81QC	75		97						0
03	B-22	64		114						0
04	B-13	63		82						0
05	B-12	D		D						0
06	B-29	D		D						0
07	CESS POOL SO	D		D						0
08	B-25	83		95						0
09	B-26	81		97						0
10	B-31	78		89						0
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

ADVISORY QC LIMITS

TCX = Tetrachloro-m-xylene (47-150)
DCB = Decachlorobiphenyl (41-149)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM II PEST-2
GC-8081:rev 1.0

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: IEA-CT Contract: _____

Code: IEACT Case No.: 1788B SDG No.: B1788

GC Column: DB-1701 ID: 0.53 (mm)

	SAMPLE NO.	TCX %REC	#	DCB %REC	#	OTHER %REC	#	OTHER %REC	#	TOT OUT
01	PBLK82	75		149*						1
02	PBLK82QC	76		79						0
03	CESS POOL LQ	8*		27*						2
04	FB 080197	59		33*						1
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

ADVISORY QC LIMITS

TCX = Tetrachloro-m-xylene (11-153)
DCB = Decachlorobiphenyl (35-117)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM II PEST-1
GC-8081:rev 1.0

3H
SOIL PESTICIDE QC CHECK RECOVERY

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 1788B SDG No.: B1788

Sample No.: PBLK81

COMPOUND	SPIKE ADDED (UG/KG)	SPIKE CONCENTRATION (UG/KG)	% REC #	QC. LIMITS REC.
Aroclor-1260	330	220	67	46-115

Column to be used to flag recovery values with an asterisk

COMMENTS: _____

3G
WATER PESTICIDE QC CHECK RECOVERY

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 1788B SDG No.: B1788

Sample No.: PBLK82

COMPOUND	SPIKE ADDED (UG/L)	SPIKE CONCENTRATION (UG/L)	% REC #	QC. LIMITS REC.
Aroclor-1260	10	7.3	73	40-135

Column to be used to flag recovery values with an asterisk

COMMENTS: _____

FORM III PEST-3
GC-8081:rev 1.0

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: IEA-CT Contract: _____ Client Id: PBLK82

Lab Code: IEACT Case No.: 1788B SDG No.: B1788

Lab sample ID: 080497-B04 Lab File ID: A4507137

Matrix:(soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 08/04/97

Date Analyzed (1): 08/07/97 Date Analyzed (2): 08/12/97

Time Analyzed (1): 0857 Time Analyzed (2): 0117

Instrument ID (1): HP58904A Instrument ID (2): HP58901A

GC Column (1):DB-1701 ID:0.53(mm) GC Column (2):RTX-35 ID:0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK82QC	080497-B04QC	08/07/97	
02	CESS POOL LQ	971788B-01	08/07/97	08/13/97
03	FB 080197	971788B-11	08/07/97	08/13/97
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

TABLE VO-2.2 Soil
7097-1744A
GERAGHTY & MILLER
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: VBLKBF

Lab Sample Id: VBLKBF Client Sample Id: Method Blank

CAS#	Compound	RT	Estimated Conc., ug/Kg
	NONE DETECTED		

Lab Sample Id: 971744A-06 Client Sample Id: B-23

CAS#	Compound	RT	Estimated Conc., ug/Kg
	UNKNOWN SILOXANE	26.58	45J
	UNKNOWN	26.91	11J

Lab Sample Id: 971744A-07 Client Sample Id: B-16

CAS#	Compound	RT	Estimated Conc., ug/Kg
	UNKNOWN SILOXANE	26.61	69J
556672	CYCLOTETRASILOXANE, OCTAMETH	23.88	6JN

Lab Sample Id: 971744A-08 Client Sample Id: B-17

CAS#	Compound	RT	Estimated Conc., ug/Kg
	UNKNOWN SILOXANE	26.55	45J

Lab Sample Id: 971744A-09 Client Sample Id: B-21(0-2)

CAS#	Compound	RT	Estimated Conc., ug/Kg
	UNKNOWN SILOXANE	26.66	21J

See Appendix for qualifier definitions

TABLE VO-2.1 Aqueous
7097-1744A
GERAGHTY & MILLER
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: VBLKEI

Lab Sample Id: VBLKEI Client Sample Id: Method Blank

CAS#	Compound	RT	Estimated Conc., ug/L
	NONE DETECTED		

Lab Sample Id: 971744A-03 Client Sample Id: TB 073097

CAS#	Compound	RT	Estimated Conc., ug/L
	NONE DETECTED		

See Appendix for qualifier definitions

TABLE VO-1.6
7097-1744A
GERAGHTY & MILLER
TCL VOLATILE ORGANICS + TIC'S

Soil

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	TPVII S		Quant. Limits with no Dilution
Lab Sample I.D.	VBLKDE	971744A-01		
Method Blank I.D.	VBLKDE	VBLKDE		
Quant. Factor	1.00	1.10		
Chloromethane	U	U		10
Bromomethane	U	U		10
Vinyl Chloride	U	U		10
Chloroethane	U	U		10
Methylene Chloride	U	4J		10
Acetone	5J	10JB		10
Carbon Disulfide	U	U		10
1,1-Dichloroethene	U	U		10
1,1-Dichloroethane	U	U		10
1,2-Dichloroethene (total)	U	U		10
Chloroform	U	U		10
1,2-Dichloroethane	U	U		10
2-Butanone	U	U		10
1,1,1-Trichloroethane	U	U		10
Carbon Tetrachloride	U	U		10
Bromodichloromethane	U	U		10
.,2-Dichloropropane	U	U		10
cis-1,3-Dichloropropene	U	U		10
Trichloroethene	U	U		10
Dibromochloromethane	U	U		10
1,1,2-Trichloroethane	U	U		10
Benzene	U	U		10
trans-1,3-Dichloropropene	U	U		10
Bromoform	U	U		10
4-Methyl-2-Pentanone	U	U		10
2-Hexanone	U	U		10
Tetrachloroethene	U	2J		10
1,1,2,2-Tetrachloroethane	U	U		10
Toluene	U	U		10
Chlorobenzene	U	U		10
Ethylbenzene	U	U		10
Styrene	U	U		10
Xylene (total)	U	U		10
Date Received		07/31/97		
Date Extracted	N/A	N/A		
Date Analyzed	08/06/97	08/06/97		

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE VO-2.0 Aqueous
7097-1744A
GERAGHTY & MILLER
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: VBLKEH

Lab Sample Id: VBLKEH Client Sample Id: Method Blank

CAS#	Compound	RT	Estimated Conc., ug/L
NONE DETECTED			

Lab Sample Id: 971744A-02 Client Sample Id: FB-3

CAS#	Compound	RT	Estimated Conc., ug/L
NONE DETECTED			

Lab Sample Id: 971744A-04 Client Sample Id: FB 073197

CAS#	Compound	RT	Estimated Conc., ug/L
NONE DETECTED			

Lab Sample Id: 971744A-05 Client Sample Id: TB 073197

CAS#	Compound	RT	Estimated Conc., ug/L
NONE DETECTED			

See Appendix for qualifier definitions

IEA
An Aquarion Company

September 03, 1997

Mr. Greg Ernst
GERAGHTY & MILLER
88 Duryea Road
Melville, NY 11747

Dear Mr. Ernst :

Please find enclosed the analytical results of 14 sample(s) received at our laboratory on July 31-August 1, 1997. This report contains sections addressing the following information at a minimum:

- sample summary
- analytical methodology
- state certifications
- definition of data qualifiers and terminology
- analytical results
- chain-of-custody

IEA Report #7097-1744A	Purchase Order #NY0962.001
Project ID: NYU LABS	

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 261-4458 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Jeffrey C. Curran
Laboratory Manager

JCC

printed on recycled paper

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	Cont Cal
Project:		Sample:	
Report Date:	09/05/97	Type:	
Collected:		Container:	
Received:			
Analyzed:	08/11/97	Dilution Factor:	1
By:	LSB		

Number	Compound	Spike ug/kg(dry)	Result ug/kg(dry)	Limits ug/kg(dry)
1	Benzene	50	49	42-58
2	n-Butylbenzene	50	50	42-58
3	s-Butylbenzene	50	48	42-58
4	t-Butylbenzene	50	49	42-58
5	Ethylbenzene	50	42	42-58
6	Isopropylbenzene	50	50	42-58
7	Isopropyltoluene	50	48	42-58
8	Methyl-t-butylether	50	50	42-58
9	Naphthalene	25	22	21-29
10	n-Propylbenzene	50	48	42-58
11	Toluene	50	50	42-58
12	1,2,4-Trimethylbenzene	50	49	42-58
13	1,3,5-Trimethylbenzene	50	48	42-58
14	Xylenes (Total)	50	49	42-58

Surrogate Standard Recovery:

1,4-Difluorobenzene 98 %

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-493-01, -02

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLKQH	67	60	87	26	33	75			0
02	SBLKQHFMS	72	69	101	30	40	101			0
03	CESS POOL LQ	0D	82	98	0D	0D	0D			0
04	FB 080197	59	52	66	24	34	68			0
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (35-114)
S2 (FBP) = 2-Fluorobiphenyl (43-116)
S3 (TPH) = Terphenyl-d14 (33-141)
S4 (PHL) = Phenol-d5 (10-110)
S5 (2FP) = 2-Fluorophenol (21-110)
S6 (TBP) = 2,4,6-Tribromophenol (10-123)
S7 (2CP) = 2-Chlorophenol-d4 (-) (advisory)
S8 (DCB) = 1,2-Dichlorobenzene-d4 (-) (advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV-1

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLKOH	76	65	91	81	74	79			0
02	B-2	82	74	108	87	73	78			0
03	SS POOL SORE	131D	66	135	99	71	0D			0
04	SBLKOHMSB	75	64	89	78	73	79			0
05	SBLKOHMS	86	73	101	86	81	93			0
06	SBLKOHMSD	83	71	98	83	79	87			0
07	SBLKOHFMS	75	69	102	78	73	98			0
08	CESS POOL SO	64	98	100	79	64	0D			0
09	B-22	74	125*	61	81	75	36			1
10	B-13	76	73	113	83	75	92			0
11	B-22RE	72	132*	67	83	75	39			1
12	B-13RE	75	71	117	85	71	90			0
13	SBLKAH	89	78	105	88	83	94			0
14	B-26	89	79	114	93	85	91			0
15	B-31	74	70	114	80	72	90			0
16	B-25	37	36	53	40	36	47			0
17	SBLKAHFMS	86	77	94	85	82	96			0
18	B-12	82	76	111	94	85	93			0
19	B-12RE	80	78	116	91	80	96			0
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (23-120)
S2 (FBP) = 2-Fluorobiphenyl (30-115)
S3 (TPH) = Terphenyl-d14 (18-137)
S4 (PHL) = Phenol-d5 (24-113)
S5 (2FP) = 2-Fluorophenol (25-121)
S6 (TBP) = 2,4,6-Tribromophenol (19-122)
S7 (2CP) = 2-Chlorophenol-d4 (-) (advisory)
S8 (DCB) = 1,2-Dichlorobenzene-d4 (-) (advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV-2

3D

SEMIVOLATILE MATRIX SPIKE BLANK RECOVERY SUMMARY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Matrix Spike - EPA Sample No.: SBLKOH Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	SPIKE CONCENTRATION (ug/Kg)	SPIKE % REC #	QC. LIMITS REC.
Phenol	3300	0	2600	79	12-110
2-Chlorophenol	3300	0	2500	76	27-123
1,4-Dichlorobenzene	1700	0	1200	70	36-97
N-Nitroso-di-n-propylamine	1700	0	1500	88	41-116
1,2,4-Trichlorobenzene	1700	0	1200	70	39-98
4-Chloro-3-methylphenol	3300	0	2500	76	23-97
Acenaphthene	1700	0	1100	65	46-118
4-Nitrophenol	3300	0	3000	91*	10-80
2,4-Dinitrotoluene	1700	0	1300	76	24-96
Pentachlorophenol	3300	0	2700	82	9-103
Pyrene	1700	0	1200	70	26-127

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 11 outside limits

COMMENTS: _____

_____

FORM III SV-2

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Matrix Spike - EPA Sample No.: SBLKOH Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3300	0	2900	88	26- 90
2-Chlorophenol	3300	0	2800	85	25-102
1,4-Dichlorobenzene	1700	0	1300	76	28-104
N-Nitroso-di-n-prop.(1)	1700	0	1700	100	41-126
1,2,4-Trichlorobenzene	1700	0	1400	82	38-107
4-Chloro-3-methylphenol	3300	0	2900	88	26-103
Acenaphthene	1700	0	1300	76	31-137
4-Nitrophenol	3300	0	3500	106	11-114
2,4-Dinitrotoluene	1700	0	1500	88	28- 89
Pentachlorophenol	3300	0	3000	91	17-109
Pyrene	1700	0	1400	82	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3300	2800	85	4	35	26- 90
2-Chlorophenol	3300	2700	82	4	50	25-102
1,4-Dichlorobenzene	1700	1300	76	0	27	28-104
N-Nitroso-di-n-prop.(1)	1700	1600	94	6	38	41-126
1,2,4-Trichlorobenzene	1700	1300	76	8	23	38-107
4-Chloro-3-methylphenol	3300	2700	82	7	33	26-103
Acenaphthene	1700	1200	70	8	19	31-137
4-Nitrophenol	3300	3300	100	6	50	11-114
2,4-Dinitrotoluene	1700	1400	82	7	47	28- 89
Pentachlorophenol	3300	3000	91	0	47	17-109
Pyrene	1700	1300	76	8	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits.

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

3D

SOIL SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Matrix Spike - EPA Sample No.: SBLKOH Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	SPIKE CONCENTRATION (ug/Kg)	SPIKE % REC #	QC. LIMITS REC.
bis(2-Chloroethyl)ether	1300	0	1200	92	12-158
1,3-Dichlorobenzene	1300	0	1000	77	01-172
1,4-Dichlorobenzene	1300	0	1000	77	20-124
Benzyl alcohol	1300	0	1300	100	8-132
1,2-Dichlorobenzene	1300	0	1100	85	32-129
bis(2-Chloroisopropyl)ether	1300	0	1100	85	36-166
N-Nitroso-di-n-propylamine	1300	0	1400	108	01-230
Hexachloroethane	1300	0	1000	77	40-113
Nitrobenzene	1300	0	1100	85	35-180
Isophorone	1300	0	1100	85	21-196
bis(2-Chloroethoxy)methane	1300	0	930	72	33-184
1,2,4-Trichlorobenzene	1300	0	1100	85	44-142
Naphthalene	1300	0	1100	85	21-133
4-Chloroaniline	1300	0	750	58	01-368
Hexachlorobutadiene	1300	0	1100	85	24-116
2-Methylnaphthalene	1300	0	1100	85	36-112
Hexachlorocyclopentadiene	1300	0	800	62	01-74
2-Chloronaphthalene	1300	0	1200	92	60-118
2-Nitroaniline	1300	0	1200	92	61-138
Dimethylphthalate	1300	0	1200	92	01-112
Acenaphthylene	1300	0	1000	77	33-145
2,6-Dinitrotoluene	1300	0	1200	92	50-158
3-Nitroaniline	1300	0	1200	92	01-644
Acenaphthene	1300	0	1100	85	47-145
Dibenzofuran	1300	0	1100	85	52-123
2,4-Dinitrotoluene	1300	0	1300	100	39-139
Diethylphthalate	1300	0	1300	100	01-114
4-Chlorophenyl-phenylether	1300	0	1200	92	25-158
Fluorene	1300	0	1200	92	59-121
4-Nitroaniline	1300	0	1200	92	5-194

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 50 outside limits

COMMENTS: _____

3D

SOIL SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Matrix Spike - EPA Sample No.: SBLKOH Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	SPIKE CONCENTRATION (ug/Kg)	SPIKE % REC #	QC. LIMITS REC.
N-Nitrosodiphenylamine (1)	1300	0	1200	92	11-169
4-Bromophenyl-phenylether	1300	0	1200	92	53-127
Hexachlorobenzene	1300	0	1300	100	01-152
Phenanthrene	1300	0	1200	92	54-120
Anthracene	1300	0	1200	92	27-133
Di-n-butylphthalate	1300	0	1300	100	1-118
Fluoranthene	1300	0	1300	100	26-137
Pyrene	1300	0	1200	92	52-115
Butylbenzylphthalate	1300	0	1300	100	01-152
3,3'-Dichlorobenzidine	1300	0	880	68	01-262
Benzo(a)anthracene	1300	0	1300	100	33-143
Chrysene	1300	0	1300	100	17-168
bis(2-Ethylhexyl)phthalate	1300	0	1300	100	8-158
Di-n-octylphthalate	1300	0	1300	100	4-146
Benzo(b)fluoranthene	1300	0	1400	108	24-159
Benzo(k)fluoranthene	1300	0	940	72	11-162
Benzo(a)pyrene	1300	0	1200	92	17-163
Indeno(1,2,3-cd)pyrene	1300	0	1200	92	01-171
Dibenzo(a,h)anthracene	1300	0	1200.	92	01-227
Benzo(g,h,i)perylene	1300	0	1100	85	01-219
					-
					-
					-
					-
					-
					-
					-
					-
					-
					-

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 50 outside limits

COMMENTS: _____

_____

3D

SOIL SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Matrix Spike - EPA Sample No.: SBLKAH Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	SPIKE CONCENTRATION (ug/Kg)	SPIKE % REC #	QC. LIMITS REC.
bis(2-Chloroethyl)ether	1300	0	1300	100	12-158
1,3-Dichlorobenzene	1300	0	1200	92	01-172
1,4-Dichlorobenzene	1300	0	1200	92	20-124
Benzyl alcohol	1300	0	1400	108	8-132
1,2-Dichlorobenzene	1300	0	1300	100	32-129
bis(2-Chloroisopropyl)ether	1300	0	1300	100	36-166
N-Nitroso-di-n-propylamine	1300	0	1500	115	01-230
Hexachloroethane	1300	0	1200	92	40-113
Nitrobenzene	1300	0	1300	100	35-180
Isophorone	1300	0	1300	100	21-196
bis(2-Chloroethoxy)methane	1300	0	1100	85	33-184
1,2,4-Trichlorobenzene	1300	0	1300	100	44-142
Naphthalene	1300	0	1200	92	21-133
4-Chloroaniline	1300	0	990	76	01-368
Hexachlorobutadiene	1300	0	1400	108	24-116
2-Methylnaphthalene	1300	0	1300	100	36-112
Hexachlorocyclopentadiene	1300	0	1000	77	01-74
2-Chloronaphthalene	1300	0	1300	100	60-118
2-Nitroaniline	1300	0	1300	100	61-138
Dimethylphthalate	1300	0	1300	100	01-112
Acenaphthylene	1300	0	1200	92	33-145
2,6-Dinitrotoluene	1300	0	1300	100	50-158
3-Nitroaniline	1300	0	1300	100	01-644
Acenaphthene	1300	0	1200	92	47-145
Dibenzofuran	1300	0	1300	100	52-123
2,4-Dinitrotoluene	1300	0	1300	100	39-139
Diethylphthalate	1300	0	1300	100	01-114
4-Chlorophenyl-phenylether	1300	0	1300	100	25-158
Fluorene	1300	0	1300	100	59-121
4-Nitroaniline	1300	0	1300	100	5-194

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 50 outside limits

COMMENTS: _____

_____

3D

SOIL SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Matrix Spike - EPA Sample No.: SBLKAH _____ Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	SPIKE CONCENTRATION (ug/Kg)	SPIKE % REC #	QC. LIMITS REC.
N-Nitrosodiphenylamine (1)	1300	0	1200	92	11-169
4-Bromophenyl-phenylether	1300	0	1200	92	53-127
Hexachlorobenzene	1300	0	1300	100	01-152
Phenanthrene	1300	0	1200	92	54-120
Anthracene	1300	0	1200	92	27-133
Di-n-butylphthalate	1300	10	1200	92	1-118
Fluoranthene	1300	0	1200	92	26-137
Pyrene	1300	0	1200	92	52-115
Butylbenzylphthalate	1300	0	1200	92	01-152
3,3'-Dichlorobenzidine	1300	0	960	74	01-262
Benzo(a)anthracene	1300	0	1200	92	33-143
Chrysene	1300	0	1200	92	17-168
bis(2-Ethylhexyl)phthalate	1300	0	1200	92	8-158
Di-n-octylphthalate	1300	0	1300	100	4-146
Benzo(b)fluoranthene	1300	0	1200	92	24-159
Benzo(k)fluoranthene	1300	0	1100	85	11-162
Benzo(a)pyrene	1300	0	1200	92	17-163
Indeno(1,2,3-cd)pyrene	1300	0	1200	92	01-171
Dibenzo(a,h)anthracene	1300	0	1200	92	01-227
Benzo(g,h,i)perylene	1300	0	1100	85	01-219
					-
					-
					-
					-
					-
					-
					-
					-
					-
					-

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 50 outside limits

COMMENTS: _____

_____

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Matrix Spike - EPA Sample No.: SBLKQH _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
bis(2-Chloroethyl)ether	40	0	33	82	12-158
1,3-Dichlorobenzene	40	0	25	62	01-172
1,4-Dichlorobenzene	40	0	26	65	20-124
Benzyl alcohol	40	0	32	80	8-132
1,2-Dichlorobenzene	40	0	28	70	32-129
bis(2-Chloroisopropyl)ether	40	0	30	75	36-166
N-Nitroso-di-n-propylamine	40	0	39	98	01-230
Hexachloroethane	40	0	25	62	40-113
Nitrobenzene	40	0	32	80	35-180
Isophorone	40	0	34	85	21-196
bis(2-Chloroethoxy)methane	40	0	28	70	33-184
1,2,4-Trichlorobenzene	40	0	28	70	44-142
Naphthalene	40	0	31	78	21-133
4-Chloroaniline	40	0	33	82	01-368
Hexachlorobutadiene	40	0	29	72	24-116
2-Methylnaphthalene	40	0	31	78	36-112
Hexachlorocyclopentadiene	40	0	24	60	01-74
2-Chloronaphthalene	40	0	36	90	60-118
2-Nitroaniline	40	0	38	95	61-138
Dimethylphthalate	40	0	40	100	01-112
Acenaphthylene	40	0	33	82	33-145
2,6-Dinitrotoluene	40	0	41	102	50-158
3-Nitroaniline	40	0	41	102	01-644
Acenaphthene	40	0	34	85	47-145
Dibenzofuran	40	0	36	90	52-123
2,4-Dinitrotoluene	40	0	42	105	39-139
Diethylphthalate	40	0	41	102	01-114
4-Chlorophenyl-phenylether	40	0	38	95	25-158
Fluorene	40	0	37	92	59-121
4-Nitroaniline	40	0	41	102	5-194

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 50 outside limits

COMMENTS: _____

_____

FORM III SV-1

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Matrix Spike - EPA Sample No.: SBLKQH

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
N-Nitrosodiphenylamine (1)	40	0	36	90	11-169
4-Bromophenyl-phenylether	40	0	39	98	53-127
Hexachlorobenzene	40	0	40	100	01-152
Phenanthrene	40	0	37	92	54-120
Anthracene	40	0	36	90	27-133
Di-n-butylphthalate	40	0	39	98	1-118
Fluoranthene	40	0	38	95	26-137
Pyrene	40	0	37	92	52-115
Butylbenzylphthalate	40	0	38	95	01-152
3,3'-Dichlorobenzidine	40	0	34	85	01-262
Benzo(a)anthracene	40	0	38	95	33-143
Chrysene	40	0	39	98	17-168
bis(2-Ethylhexyl)phthalate	40	0	38	95	8-158
Di-n-octylphthalate	40	0	40	100	4-146
Benzo(b)fluoranthene	40	0	39	98	24-159
Benzo(k)fluoranthene	40	0	34	85	11-162
Benzo(a)pyrene	40	0	38	95	17-163
Indeno(1,2,3-cd)pyrene	40	0	33	82	01-171
Dibenzo(a,h)anthracene	40	0	34	85	01-227
Benzo(g,h,i)perylene	40	0	31	78	01-219
					-
					-
					-
					-
					-
					-
					-
					-
					-
					-

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 50 outside limits

COMMENTS: _____

_____

FORM III SV-1

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKOH

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Lab File ID: >H3678 Lab Sample ID: SBLKOH

Instrument ID: HP5970H Date Extracted: 08/05/97

Matrix: (soil/water) SOIL Date Analyzed: 08/21/97

Level: (low/med) LOW Time Analyzed: 1251

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	B-2	971788B-05	>H3668	08/20/97
02	SS POOL SORE	971788B-02RE	>H3673	08/20/97
03	SBLKOHMSB	SBLKOHMSB	>H3679	08/21/97
04	SBLKOHMS	SBLKOHMS	>H3680	08/21/97
05	SBLKOHMSD	SBLKOHMSD	>H3681	08/21/97
06	SBLKOHFMS	SBLKOHFMS	>H3682	08/21/97
07	CESS POOL SO	971788B-02	>H3698	08/22/97
08	B-22	971788B-03	>H3699	08/22/97
09	B-13	971788B-04	>H3700	08/22/97
10	B-22RE	971788B-03RE	>H3704	08/22/97
11	B-13RE	971788B-04RE	>H3709	08/25/97
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

FORM IV SV

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKAH

ab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Lab File ID: >H3683 Lab Sample ID: SBLKAH

Instrument ID: HP5970H Date Extracted:08/07/97

Matrix: (soil/water) SOIL Date Analyzed: 08/21/97

Level:(low/med) LOW Time Analyzed:1653

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	B-26	971788B-08	>H3669	08/20/97
02	B-31	971788B-10	>H3670	08/20/97
03	B-25	971788B-07	>H3672	08/20/97
04	SBLKAHFMS	SBLKAHFMS	>H3684	08/21/97
05	B-12	971788B-06	>H3701	08/22/97
06	B-12RE	971788B-06RE	>H3710	08/25/97
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

_____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKQH

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Lab File ID: >H3687 Lab Sample ID: SBLKQH

Instrument ID: HP5970H Date Extracted:08/05/97

Matrix: (soil/water) WATER Date Analyzed: 08/21/97

Level:(low/med) LOW Time Analyzed:2007

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLKQHFMS	SBLKQHFMS	>H3688	08/21/97
02	CESS POOL LQ	971788B-01	>H3694	08/22/97
03	FB 080197	971788B-11	>H3695	08/22/97
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Lab File ID: H3628 DFTPP Injection Date:08/14/97

Instrument ID: HP5970H DFTPP Injection Time:1014

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	54.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Present	68.7
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	40.0 - 60.0% of mass 198	43.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	17.9
365	Greater than 1.0% of mass 198	1.52
441	Present, but less than mass 443	7.7
442	40.0 - 110.0% of mass 198	56.3
443	17.0 - 23.0% of mass 442	10.9 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD010	SSTD010	>H3629	08/14/97	1100
02	SSTD025	SSTD025	>H3630	08/14/97	1149
03	SSTD040	SSTD040	>H3631	08/14/97	1238
04	SSTD060	SSTD060	>H3632	08/14/97	1326
05	SSTD080	SSTD080	>H3633	08/14/97	1415
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Lab File ID: H3661 DFTPP Injection Date: 08/20/97

Instrument ID: HP5970H DFTPP Injection Time: 1123

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	58.1
68	Less than 2.0% of mass 69	0.9 (1.2)1
69	Present	73.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	48.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	16.6
365	Greater than 1.0% of mass 198	1.47
441	Present, but less than mass 443	5.8
442	40.0 - 110.0% of mass 198	43.0
443	17.0 - 23.0% of mass 442	7.9 (18.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD025	SSTD025	>H3661	08/20/97	1123
02	B-2	971788B-05	>H3668	08/20/97	1707
03	B-26	971788B-08	>H3669	08/20/97	1755
04	B-31	971788B-10	>H3670	08/20/97	1844
05	B-25	971788B-07	>H3672	08/20/97	2020
06	SS POOL SORE	971788B-02RE	>H3673	08/20/97	2109
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: _____ SAS No.: _____ SDG No.: B1788

Lab File ID: H3677 DFTPP Injection Date:08/21/97

Instrument ID: HP5970H DFTPP Injection Time:1147

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	58.0
68	Less than 2.0% of mass 69	0.3 (0.4)1
69	Present	73.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	44.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	17.4
365	Greater than 1.0% of mass 198	1.56
441	Present, but less than mass 443	7.0
442	40.0 - 110.0% of mass 198	52.0
443	17.0 - 23.0% of mass 442	9.9 (19.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD025	SSTD025	>H3677	08/21/97	1147
02	SBLKOH	SBLKOH	>H3678	08/21/97	1251
03	SBLKOHMSB	SBLKOHMSB	>H3679	08/21/97	1340
04	SBLKOHMS	SBLKOHMS	>H3680	08/21/97	1428
05	SBLKOHMSD	SBLKOHMSD	>H3681	08/21/97	1517
06	SBLKOHFMS	SBLKOHFMS	>H3682	08/21/97	1605
07	SBLKAH	SBLKAH	>H3683	08/21/97	1653
08	SBLKAHFMS	SBLKAHFMS	>H3684	08/21/97	1742
09	SBLKQH	SBLKQH	>H3687	08/21/97	2007
10	SBLKQHFMS	SBLKQHFMS	>H3688	08/21/97	2056
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
GAS CHROMATOGRAPHY ANALYSIS

JOB #: 7097-1788B

SAMPLE ID	MATRIX	DATE COLLECTED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED
CESS POOL LQ	WATER	07/29/97	07/31/97	8/4/97	8/7/97
CESS POOL SO	SOIL	07/29/97	07/31/97	↓	8/13/97
B-22	SOIL	07/30/97	08/01/97		8/12/97
B-13	SOIL	07/31/97	08/01/97		↓
B 12	SOIL	07/31/97	08/01/97		↓
B-25	SOIL	08/01/97	08/04/97		8/14/97
B-26	SOIL	08/01/97	08/04/97		↓
B-29	SOIL	08/01/97	08/04/97		8/12/97
B-31	SOIL	08/01/97	08/04/97		8/14/97
FB 080197	WATER	08/01/97	08/04/97	↓	8/7/97

Section Supervisor (signature) Kim Mat

Review & Approval (printed name) Kim Maturo

(Date) 8/22/97

QC Supervisor (signature) _____

Review & Approval (printed name) _____

(Date) __/__/__

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	0070-487-01 MS/MSD
Project:		Sample:	
Report Date:	08/07/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/01/97	Dilution Factor:	1
By:	GAM		

Number	Compound	MS (%)	MSD (%)	RPD (%)
1	Benzene	92	90	1.1
2	n-Butylbenzene	71	74	4.1
3	s-Butylbenzene	79	81	1.2
4	t-Butylbenzene	81	81	0.0
5	Ethylbenzene	87	87	0.0
6	Isopropylbenzene	87	87	0.0
7	Isopropyltoluene	81	87	7.1
8	Methyl-t-butylether	92	90	2.2
9	Naphthalene	62	68	9.2
10	n-Propylbenzene	87	84	3.5
11	Toluene	89	88	1.1
12	1,2,4-Trimethylbenzene	81	83	2.4
13	1,3,5-Trimethylbenzene	85	83	2.4
14	Xylenes (Total)	89	88	1.1

Surrogate Standard Recovery:

1,4-Difluorobenzene	90	90	0.0

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-491-01, 0070-491-02, 0070-491-03

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:
Project:
Report Date: 08/07/97
Collected:
Received:
Analyzed: 08/05/97
By: GAM

AEN ID: Cont Cal
Sample:
Type: Soil
Container:

Dilution Factor: 1

Number	Compound	Spike ug/kg(dry)	Result ug/kg(dry)	Limits ug/kg(dry)
1	Benzene	50	48	42-58
2	n-Butylbenzene	50	42	42-58
3	s-Butylbenzene	50	46	42-58
4	t-Butylbenzene	50	47	42-58
5	Ethylbenzene	50	47	42-58
6	Isopropylbenzene	50	47	42-58
7	Isopropyltoluene	50	45	42-58
8	Methyl-t-butylether	50	50	42-58
9	Naphthalene	25	23	21-29
10	n-Propylbenzene	50	47	42-58
11	Toluene	50	48	42-58
12	1,2,4-Trimethylbenzene	50	47	42-58
13	1,3,5-Trimethylbenzene	50	47	42-58
14	Xylenes (Total)	50	47	42-58

Surrogate Standard Recovery:

1,4-Difluorobenzene 97 %

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-491-01, 0070-491-02, 0070-491-03

AEN - Massachusetts
Analysis Report: EPA Method 8021A (Volatile Organics)

Client:		AEN ID:	0070-487-01 MS/MSD
Project:		Sample:	
Report Date:	09/05/97	Type:	Soil
Collected:		Container:	
Received:			
Analyzed:	08/01/97	Dilution Factor:	1
By:	GAM		

Number	Compound	MS (%)	MSD (%)	RPD (%)
1	Benzene	92	90	1.1
2	n-Butylbenzene	71	74	4.1
3	s-Butylbenzene	79	81	1.2
4	t-Butylbenzene	81	81	0.0
5	Ethylbenzene	87	87	0.0
6	Isopropylbenzene	87	87	0.0
7	Isopropyltoluene	81	87	7.1
8	Methyl-t-butylether	92	90	2.2
9	Naphthalene	62	68	9.2
10	n-Propylbenzene	87	84	3.5
11	Toluene	89	88	1.1
12	1,2,4-Trimethylbenzene	81	83	2.4
13	1,3,5-Trimethylbenzene	85	83	2.4
14	.Xylenes (Total)	89	88	1.1
	Surrogate Standard Recovery:			
	1,4-Difluorobenzene	90	90	0.0

Comments:
PQL = Practical quantitation limit.
BQL = Below quantitation limit.
Dilution factor adjusted for moisture content of the sample.
Corresponding Samples: 0070-493-01, -02

TABLE SV-1.2
7097-1788B
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-22	B-22 RE	B-13	Quant. Limits with no Dilution
Lab Sample I.D.	971788B-03	971788B-03RE	971788B-04	
Method Blank I.D.	SBLKOH	SBLKOH	SBLKOH	
Quant. Factor	1.23	1.23	1.09	
Naphthalene	52J	50J	50J	330
2-Methylnaphthalene	U	U	U	330
Acenaphthylene	U	U	U	330
Acenaphthene	U	U	150J	330
Fluorene	U	U	120J	330
Phenanthrene	U	U	1300	330
Anthracene	U	U	290J	330
Fluoranthene	U	U	1700	330
Pyrene	U	49J	1500	330
Benzo(a)anthracene	29J	26J	860	330
Chrysene	59J	58J	790	330
Benzo(b)fluoranthene	U	U	1100	330
Benzo(k)fluoranthene	U	U	770	330
Benzo(a)pyrene	U	U	720	330
Indeno(1,2,3-cd)pyrene	U	U	130J	330
Dibenzo(a,h)anthracene	U	U	50J	330
Benzo(g,h,i)perylene	U	U	96J	330
Date Received	08/01/97	08/01/97	08/01/97	
Date Extracted	08/05/97	08/05/97	08/05/97	
Date Analyzed	08/22/97	08/22/97	08/22/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.3 Soil
7097-1788B
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-13 RE	B-2		Quant. Limits with no Dilution
Lab Sample I.D.	971788B-04RE	971788B-05		
Method Blank I.D.	SBLKOH	SBLKOH		
Quant. Factor	1.09	1.11		
Naphthalene	49J	U		330
2-Methylnaphthalene	U	U		330
Acenaphthylene	U	U		330
Acenaphthene	140J	U		330
Fluorene	120J	U		330
Phenanthrene	1300	U		330
Anthracene	280J	U		330
Fluoranthene	1700	U		330
Pyrene	1600	U		330
Benzo(a)anthracene	850	U		330
Chrysene	770	U		330
Benzo(b)fluoranthene	1000	U		330
Benzo(k)fluoranthene	810	U		330
Benzo(a)pyrene	720	U		330
Indeno(1,2,3-cd)pyrene	130J	U		330
Dibenzo(a,h)anthracene	53J	U		330
Benzo(g,h,i)perylene	94J	U		330
Date Received	08/01/97	08/01/97		
Date Extracted	08/05/97	08/05/97		
Date Analyzed	08/25/97	08/20/97		

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.4 Soil
7097-1788B
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	B-12	B-12 RE	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKAH	971788B-06	971788B-06RE	
Method Blank I.D.	SBLKAH	SBLKAH	SBLKAH	
Quant. Factor	1.00	1.18	1.18	
Naphthalene	U	71J	69J	330
2-Methylnaphthalene	U	U	U	330
Acenaphthylene	U	59J	51J	330
Acenaphthene	U	48J	57J	330
Fluorene	U	54J	56J	330
Phenanthrene	U	690	690	330
Anthracene	U	220J	200J	330
Fluoranthene	U	1300	1300	330
Pyrene	U	1200	1200	330
Benzo(a)anthracene	U	590	600	330
Chrysene	U	620	620	330
Benzo(b)fluoranthene	U	850	780	330
Benzo(k)fluoranthene	U	650	620	330
Benzo(a)pyrene	U	520	520	330
Indeno(1,2,3-cd)pyrene	U	82J	91J	330
Dibenzo(a,h)anthracene	U	U	U	330
enzo(g,h,i)perylene	U	73J	69J	330
Date Received		08/01/97	08/01/97	
Date Extracted	08/07/97	08/07/97	08/07/97	
Date Analyzed	08/21/97	08/22/97	08/25/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.5 Soil
7097-1788B
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-25	B-26	B-31	Quant. Limits with no Dilution
Lab Sample I.D.	971788B-07	971788B-08	971788B-10	
Method Blank I.D.	SBLKAH	SBLKAH	SBLKAH	
Quant. Factor	1.08	1.06	1.12	
Naphthalene	U	U	U	330
2-Methylnaphthalene	U	U	U	330
Acenaphthylene	U	U	U	330
Acenaphthene	U	U	U	330
Fluorene	U	U	U	330
Phenanthrene	44J	U	U	330
Anthracene	9J	U	U	330
Fluoranthene	77J	U	17J	330
Pyrene	70J	U	22J	330
Benzo(a)anthracene	40J	U	U	330
Chrysene	44J	U	U	330
Benzo(b)fluoranthene	41J	U	U	330
Benzo(k)fluoranthene	38J	U	U	330
Benzo(a)pyrene	39J	U	U	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
Dibenzo(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	330
Date Received	08/04/97	08/04/97	08/04/97	
Date Extracted	08/07/97	08/07/97	08/07/97	
Date Analyzed	08/20/97	08/20/97	08/20/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE GC-1.0
7097-1788B
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

Aqueous

All values are ug/L.

Client Sample I.D.	Method Blank	PBLK82 QC	CESS POOL LQ	Quant. Limits with no Dilution
Lab Sample I.D.	080497-B04	080497-B04QC	971788B-01	
Method Blank I.D.	PBLK82	PBLK82	PBLK82	
Quant. Factor	1.00	1.00	1.00	
Aroclor-1016	U	U	U	1.0
Aroclor-1221	U	U	U	2.0
Aroclor-1232	U	U	U	1.0
Aroclor-1242	U	U	U	1.0
Aroclor-1248	U	U	0.88J	1.0
Aroclor-1254	U	U	1.4	1.0
Aroclor-1260	U	7.3X	U	1.0
Date Received			07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/07/97	08/07/97	08/07/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE GC-1.1 Aqueous
7097-1788B
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/L.

Client Sample I.D.	FB 080197			Quant. Limits with no Dilution
Lab Sample I.D.	971788B-11			
Method Blank I.D.	PBLK82			
Quant. Factor	1.00			
Aroclor-1016	U			1.0
Aroclor-1221	U			2.0
Aroclor-1232	U			1.0
Aroclor-1242	U			1.0
Aroclor-1248	U			1.0
Aroclor-1254	U			1.0
Aroclor-1260	U			1.0
Date Received	08/04/97			
Date Extracted	08/04/97			
Date Analyzed	08/07/97			

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE GC-1.2
7097-1788B
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

Soil

All values are ug/Kg dry weight basis.

Client Sample I.D. Lab Sample I.D. Method Blank I.D. Quant. Factor	Method Blank 080497-B02 PBLK81 1.00	PBLK81 QC 080497-B02QC PBLK81 1.00	CESS POOL SO 971788B-02 PBLK81 89.3	Quant. Limits with no Dilution
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	U	U	2400J	33
Aroclor-1254	U	U	3900	33
Aroclor-1260	U	220X	U	33
Date Received			07/31/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/09/97	08/09/97	08/13/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE GC-1.3 Soil
7097-1788B
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-22	B-13	B-12	Quant. Limits with no Dilution
Lab Sample I.D.	971788B-03	971788B-04	971788B-06	
Method Blank I.D.	PBLK81	PBLK81	PBLK81	
Quant. Factor	12.3	5.43	58.8	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	390J	U	U	33
Aroclor-1254	980	280	2100	33
Aroclor-1260	280J	160J	790J	33
Date Received	08/01/97	08/01/97	08/01/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/12/97	08/12/97	08/12/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE GC-1.4
7097-1788B
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

Soil

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-25	B-26	B-29	Quant. Limits with no Dilution
Lab Sample I.D.	971788B-07	971788B-08	971788B-09	
Method Blank I.D.	PBLK81	PBLK81	PBLK81	
Quant. Factor	1.08	1.05	116.	
Aroclor-1016	U	U	U	33
Aroclor-1221	U	U	U	67
Aroclor-1232	U	U	U	33
Aroclor-1242	U	U	U	33
Aroclor-1248	24.J	U	3500J	33
Aroclor-1254	41.	U	5700	33
Aroclor-1260	U	U	U	33
Date Received	08/04/97	08/04/97	08/04/97	
Date Extracted	08/04/97	08/04/97	08/04/97	
Date Analyzed	08/14/97	08/14/97	08/12/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE GC-1.5 Soil
7097-1788B
GERAGHTY & MILLER
8081 POLYCHLORINATED BIPHENYLS (PCB"s)

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-31			Quant. Limits with no Dilution
Lab Sample I.D.	971788B-10			
Method Blank I.D.	PBLK81			
Quant. Factor	1.12			
Aroclor-1016	U			33
Aroclor-1221	U			67
Aroclor-1232	U			33
Aroclor-1242	U			33
Aroclor-1248	U			33
Aroclor-1254	25.J			33
Aroclor-1260	U			33
Date Received	08/04/97			
Date Extracted	08/04/97			
Date Analyzed	08/14/97			

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

ORGANICS APPENDIX

U - Indicates that the compound was analyzed for but not detected.

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

N - Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on tabular result sheet.

S - Estimated due to surrogate outliers.

X - Matrix spike compound.

(1) - Cannot be separated.

(2) - Decomposes to azobenzene. Measured and calibrated as azobenzene.

A - This flag indicates that a TIC is a suspected aldol condensation product.

E - Indicates that it exceeds calibration curve range.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

C - Confirmed by GC/MS.

T - Compound present in TCLP blank.

P - This flag is used for a pesticide/aroclor target analyte when there is a greater than 25 percent difference for detected concentrations between the two GC columns (see Form X).

STATE CERTIFICATIONS

In some instances it may be necessary for environmental data to be reported to a regulatory authority with reference to a certified laboratory. For your convenience, the laboratory identification numbers for the AEN-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

AEN-Connecticut
Certification Summary (as of August 1997)

State	Responsible Agency	Certification	Lab Number
Connecticut	Department of Health Services	Drinking Water, Wastewater	PH-0497
Maine	Department of Human Services	Wastewater	CT023
Massachusetts	Department of Environmental Protection	Potable/Non-Potable Water	CT023
New Hampshire	Department of Environmental Services	Drinking Water, Wastewater	2528
New Jersey	Department of Environmental Protection	Drinking Water, Wastewater	46410
New York	Department of Health	CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste	10602
North Carolina	Division of Environmental Management	Wastewater	388
North Dakota	Department of Health and Consolidated Laboratories	Non-Potable/Potable Hazardous Waste	R-138
Oklahoma	Department of Environmental Quality	General Water Quality/ Sludge Testing	9614
Rhode Island	Department of Health	Chemistry...Non-Potable Water and Wastewater	A43
Washington	Department of Ecology	Wastewater/ Hazardous Waste	C231
West Virginia	Division of Environmental Protection	Wastewater/ Hazardous Waste	263

7097-1788B
GERAGHTY & MILLER
SAMPLE SUMMARY

CLIENT ID	LAB ID	MATRIX	DATE COLLECTED	DATE RECEIVED
SS POOL LQ	971788B-01	WATER	07/29/97	07/31/97
CESS POOL SO	971788B-02	SOIL	07/29/97	07/31/97
-22	971788B-03	SOIL	07/30/97	08/01/97
-13	971788B-04	SOIL	07/31/97	08/01/97
-2	971788B-05	SOIL	07/31/97	08/01/97
B-12	971788B-06	SOIL	07/31/97	08/01/97
-25	971788B-07	SOIL	08/01/97	08/04/97
B-26	971788B-08	SOIL	08/01/97	08/04/97
29	971788B-09	SOIL	08/01/97	08/04/97
B-31	971788B-10	SOIL	08/01/97	08/04/97
080197	971788B-11	WATER	08/01/97	08/04/97

IEA-CT ANALYTICAL SUMMARY

Client ID: B-12, B-13, B-2, B-22, B-25, B-26, B-29, B-31, CESS POOL LQ, CESS POOL SO, FB 080197
Job Number: 7097-1788B

Date: 9/3/97

Qty	Matrix	Analysis	Description
1	None	DISK	Diskette Prep.
8	SOIL	BN-N8270B-PAH	PAH's
8	SOIL	PCB-N8081	PCB's
3	SOIL	VOA-N8021-MISC	Miscellaneous 8021 V
1	WATER	BN-N8270B-PAH	PAH's
2	WATER	PCB-N8081	PCB's
2	WATER	VOA-N8021-MISC	Miscellaneous 8021 V

GERAGHTY & MILLER Environmental Services, a neidemij company

Laboratory Task Order No. 12, [redacted] C — CHAIN-OF-CUSTODY RECORD — Page 1 of 2

Project Number NY0962.001

Project Location 425 MA (NYU)

Laboratory IEA AEN, Monroe

Sampler(s)/Affiliation John Burke, Andy Gilmore

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	SAMPLE BOTTLE / CONTAINER DESCRIPTION: 40ml VOA VNP 8021	40ml VOA VNP TCL VOC	1L Amber VNP BNA	1L Amber VNP PCB	500ml plastic TAL metals HNO3	1L Litre Amber VNP PAH	8oz. Glass VNP PCB/PAH	2oz. glass VNP 8021		TOTAL
F.B.-3	L	7.30.97		2	2	2	2	1					8
T.B. 7.30.97	L				2								2
cesspool liquid	L		01	2			2		2				6
cesspool Solid	S		02							1	1		2
		AEN # 7097-1788B											

Passed Rad Screen
SBW 07/31/97 4°

Sample Code: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 18

				Seal Intact?
Relinquished by: [signature]	Organization: Geraghty & Miller	Date 7/30/97	Time 17:00	Yes No N/A
Received by:	Organization:	Date / /	Time	
Relinquished by:	Organization:	Date / /	Time	Seal Intact?
Received by:	Organization:	Date / /	Time	Yes No N/A

Special Instructions/Remarks: Passed Rad Screen SBW

Delivery Method: ☐ In Person ☒ Common Carrier FED-EX (SPECIFY) ☐ Lab Courier ☐ Other (SPECIFY)

G&M Form 09-9-91

[redacted] & M Enviro [redacted] R. INC. ital Services
a heidemij company

Laboratory Task Order No. 12411, 12[redacted]

CHAIN-OF-CUSTODY RECORD

Page 1 of 1 (A6)

Project Number NY0962.001

Project Location 425MA (NYV)

Laboratory IEA AEN, Monroe

Sampler(s)/Affiliation John Burke
Andy Gilmore

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	SAMPLE BOTTLE / CONTAINER DESCRIPTION: 500ml plastic HNO3 TAL Metals	40ml Glass VOA VNP TCL VOC	1L Amber VNP TCL BNA	1L Amber VNP PCB	8oz [redacted] glass VNP PAH PCB	2oz glass VNP TCL VOC	8oz glass VNP PCB BNA Metals	2oz glass VNP 8021	8oz glass VNP PAH	TOTAL
F.B 7.31.97	L	7.31.97	~~05~~	1	2	2	2		97 1744A-04				7
T.B. 7.31.97	L	7.31.97	~~[redacted]~~		2				97 1744A-05				2
03 B-22 ([redacted]) (A6)	S	7.30.97	~~05~~					1	1788B-03				1
B-23	S	7.31.97	~~06~~						1 1744A-06				2
** B-16	S	7.31.97	~~07~~						3 3 1744-07 MS/MSD				6 MS/MSD @ 8%
B-17	S	7.31.97	~~08~~						1 1 1744A-08				2
04 B-13	S	7.31.97	~~09~~		Passed Rad Screen 8-1-97 4°			1	1788B-04				1
05 B-2	S	7.31.97	~~10~~						1788B-05 1		1		2
B-21 (0-2)	S	7.31.97	~~11~~						1 1 1744A-09				2
06 B-12	S	7.31.97	~~12~~					1	1788B-06				1

Sample Code: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 26

				Seal Intact?
Relinquished by: [signature]	Organization: Geraghty & Miller	Date 7/31/97	Time 17:00	Yes No N/A
Received by: [signature]	Organization: AENCT	Date 8/1/97	Time 10:00	
Relinquished by:	Organization:	Date / /	Time	Seal Intact?
Received by:	Organization:	Date / /	Time	Yes No N/A

Special Instructions/Remarks: ** Please use for MS/MSD

Delivery Method: ☐ In Person ☒ Common Carrier FED-EX (SPECIFY) ☐ Lab Courier ☐ Other (SPECIFY)

Enviro...tal Services
a heidemij company

Laboratory Task Order No. [redacted] **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number NY0962.001

Project Location 425 MA (NYU)

Laboratory IEA AEN Monroe, CT.

Sampler(s)/Affiliation Andy Gilmore

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	8oz glass UNP PCB PAH	8oz glass UNP PAH	2oz glass UNP VOC 8021	1L Glass Amber BN-PCB-PAH UNP	40ml glass VOA UNP 8021	8oz glass UNP PCB					TOTAL
B-25	S	8.1.97	[redacted]07	1										1
B-26	S	"	[redacted]08	1										1
B-29	S	"	[redacted]09			1			1					2
B-31	S	"	[redacted]10	1										1
F.B. 8.1.97	L	"	[redacted]11				4	2						6

Passed Rad Screen
8-4-97 6°

Sample Code: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 11

					Seal Intact?
Relinquished by:		Organization: Geraghty & Miller	Date 8/1/97	Time 17:00	Yes No N/A
Received by:		Organization: AEN CT	Date 8/4/97	Time 10:00	
Relinquished by:		Organization:	Date / /	Time	Seal Intact?
Received by:		Organization:	Date / /	Time	Yes No N/A

Special Instructions/Remarks:

Delivery Method: ☐ In Person ☒ Common Carrier FED-EX SPECIFY ☐ Lab Courier ☐ Other SPECIFY

Environmental Services — a neidemij company

Laboratory Task Order No. 12[illegible]24 CHAIN-OF-CUSTODY RECORD Page 1 of 1 (A6)

Project Number NY0962.001

Project Location 425MA (NYV)

Laboratory IEA AEN, Monroe

Sampler(s)/Affiliation John Burke, Andy Gilmore

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	500ml plastic HNO3 TAL Metals	40ml Glass VOA VNP TCL VOC	1L Amber VNP TCL BNA	1L Amber VNP PCB	8oz [redacted] glass VNP PAH PCB	2oz glass VNP TCL VOC	8oz glass VNP PCB BNA Metals	2oz glass VNP 8021	8oz glass VNP PAH	TOTAL
F.B. 7.31.97	L	7.31.97	~~05~~	1	2	2	2		97 1744A-04				7
T.B. 7.31.97	L	7.31.97	~~11~~		2				97 1744A-05				2
B-22 ([redacted]) (@8.0)	S	7.30.97	~~05~~					1	1788B-03				1
B-23	S	7.31.97	~~06~~						1 1744A-06				2
** B-16	S	7.31.97	~~07~~						3 3 1744-07	MS/MSD			6 MS/MSD @8.9
B-17	S	7.31.97	~~08~~						1 1 1744A-08				2
B-13	S	7.31.97	~~09~~	Passed Rad Screen 8-1-97 4°				1		1788B-04			1
B-2	S	7.31.97	~~10~~							1788B-05	1	1	2
B-21 (0-2)	S	7.31.97	~~11~~						1	1 1744A-09			2
B-12	S	7.31.97	~~12~~					1		1788B-06			1
												Total No. of Bottles/ Containers	26

Sample Code: L = Liquid; S = Solid; A = Air

				Seal Intact?
Relinquished by: [signature]	Organization: Geraghty & Miller	Date 7/31/97	Time 17:00	Yes No N/A
Received by: [signature]	Organization: AENCT	Date 8/1/97	Time 10:00	
Relinquished by:	Organization:	Date / /	Time	Seal Intact?
Received by:	Organization:	Date / /	Time	Yes No N/A

Special Instructions/Remarks: ** Please use for MS/MSD

Delivery Method: ☐ In Person ☒ Common Carrier FED-EX (SPECIFY) ☐ Lab Courier ☐ Other (SPECIFY)

AEN Connecticut
Internal Chain-of-Custody

Client: G&M

AEN Job #: 7097-1788B

Custody Seal: present / absent
intact / not intact

Airbill #: F.E. 445603271 1

Sample #s: 01-02

Field C-O-C: present / absent

Locations: 8, 36, A5, 34

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
2			8/4	15:00	EXTRACT			8/4	23:00
01		D. Vaub	8/05	9:00	BNA	used			
02		D. Vaub	8/05	9:00	BNA	D. Vaub		8/05	16:00

AEN Form# SMF00501.CT

AEN Connecticut
Internal Chain-of-Custody

Client: G+M

AEN Job #: 7097-17885

Custody Seal: present / (absent)
intact / not intact

Airbill #: FE. 445603 2685

Sample #s: 03-06

Field C-O-C: (present) / absent

Locations: A-9

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
3,4,6		D. Vaut	8/4	15:00	EXTRACT	D. Vaut		8/4	25:00
3,4,5		D. Vaut	8/05	9:00	BNA	D. Vaut		8/05	16:00
6		LAM	8-7	10:27	BNA	SBU		8/07/17	15:5

AEN Form# SMF00501.CT

AEN Connecticut
Internal Chain-of-Custody

Client: G+M

AEN Job #: 7097-1788B

Custody Seal: present / (absent)
intact / not intact

Airbill #: FE. 4456032652

Sample #s: 07-11

Field C-O-C: (present) / absent

Locations: 34, 36, 8, A-7

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
7-10			8/4	15:00	EXTRACT			8/4	23:00
11			8/4	15:00	EXTRACT	used			
11			8/05	9:00	BNA	used			
7,8,10			8-7-97	10:27	BNA				

AEN Form# SMF00501.CT

IEA, Inc. GC-GC/MS Extract Chain-of-Custody

Fraction: (BNA) Pesticide-PCB/ Herbicide/ O/P Pest/ Other (Circle One)

CLIENT: ADM

JOB NO(S).: 1788B

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
02-05 01/11.	08-08-97	17:00	DV	29					
6,7,8,10	8-11-97	4:45	LAM	29					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
02,10	8/15/97	1100	AN	M.Mc	8/15/97	1300	29	M.Mc
4,7,8,9,15 16,17,18,19	8/19/97	1000	AN	M.Mc	8/19/97	1200	29	M.Mc
1,11	8/21/97	1000	AN	M.Mc	8/21/97	1400	29	M.Mc
4,6	8/25/97	6 pm	AN	[illegible]	8/25/97	8:30pm	29	[illegible]

Codes: SC = Screening AN = Analysis

Verified by: _____ Date: __/__/__

cc: SMF00200.CT

IEA Inc. GC-GC/MS Extract Chain-of-Custody

Fraction: Pesticide/PCB / Herbicide / O/P Pest / Other
(Circle one)

CLIENT GDM

JOB NO(s). : 17888

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
2-4,6-10	8/4/97	23:15		50					
1,11	8/5	23:45		50					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
2-4,6,10	8/8/97	1400	AN	EAC	8/8/97	1530	50	
2-4,6,9	8/11/97	1530	AN	DM	8/11/97	1700	50	DM
1,4	8/12/97	9:00	AN	BR	08/13/97	10:00	50	BR

Codes: SC = Screening AN = Analysis

Verified by: Dawn C Date 8/27/97

Form: SME00200.CT

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: 7097-1744A

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
TPVII S	SOIL	MET-NCLP3.0-TAL	07/31/97	8/19/97	8/20/97
FB-3	WATER	MET-NCLP4.0-TAL	07/31/97	8/19/97	8/21/97
FB 073197	WATER	MET-NCLP4.0-TAL	08/01/97	↓	↓
B-23	SOIL	MET-NCLP3.0-TAL	08/01/97	8/19/97	8/20/97
B-16	SOIL	MET-NCLP3.0-TAL	08/01/97	↓	↓
B-17	SOIL	MET-NCLP3.0-TAL	08/01/97		
B-21(0-2)	SOIL	MET-NCLP3.0-TAL	08/01/97		

ction Supervisor (signature) Diane Fuerst
iew & Approval (printed name) Diane Fuerst
(Date) 9/2/97

QC Supervisor (signature) _____
Review & Approval (printed name) _____
(Date) __/__/__

TABLE SV-1.1 Soil
7097-1788B
GERAGHTY & MILLER
PAH'S

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	CESS POOL SO	CESS POOL SO RE	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKOH	971788B-02	971788B-02RE	
Method Blank I.D.	SBLKOH	SBLKOH	SBLKOH	
Quant. Factor	1.00	17.8	17.8	
Naphthalene	U	8500	10000	330
2-Methylnaphthalene	U	9800	14000	330
Acenaphthylene	U	U	U	330
Acenaphthene	U	U	U	330
Fluorene	U	U	U	330
Phenanthrene	U	U	U	330
Anthracene	U	16000	24000	330
Fluoranthene	U	U	U	330
Pyrene	U	390J	500J	330
Benzo(a)anthracene	U	U	U	330
Chrysene	U	U	U	330
Benzo(b)fluoranthene	U	U	U	330
Benzo(k)fluoranthene	U	U	U	330
Benzo(a)pyrene	U	U	U	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
Dibenzo(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	330
Date Received		07/31/97	07/31/97	
Date Extracted	08/05/97	08/05/97	08/05/97	
Date Analyzed	08/21/97	08/22/97	08/20/97	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

All values are ug/Kg dry weight basis.

Client Sample I.D.	B-21(0-2)	B-21(0-2) RE		Quant. Limits with no Dilution
Lab Sample I.D.	971744A-09	971744A-09RE		
Method Blank I.D.	SBLKUJ	SBLKUJ		
Quant. Factor	1.06	1.06		
Dibenzofuran	U	U		330
2,4-Dinitrotoluene	U	U		330
Diethylphthalate	U	U		330
4-Chlorophenyl-phenylether	U	U		330
Fluorene	U	U		330
4-Nitroaniline	U	U		830
4,6-Dinitro-2-methylphenol	U	U		830
N-Nitrosodiphenylamine (1)	U	U		330
4-Bromophenyl-phenylether	U	U		330
Hexachlorobenzene	U	U		330
Pentachlorophenol	U	U		830
Phenanthrene	65J	71J		330
Anthracene	27J	32J		330
Carbazole	U	U		330
Di-n-butylphthalate	U	U		330
Fluoranthene	U	U		330
Pyrene	U	U		330
Butylbenzylphthalate	U	U		330
3,3'-Dichlorobenzidine	U	U		330
Benzo(a)anthracene	U	U		330
Chrysene	U	U		330
bis(2-Ethylhexyl)phthalate	U	110JB		330
Di-n-octylphthalate	U	U		330
Benzo(b)fluoranthene	U	U		330
Benzo(k)fluoranthene	U	U		330
Benzo(a)pyrene	U	U		330
Indeno(1,2,3-cd)pyrene	U	U		330
Dibenz(a,h)anthracene	U	U		330
Benzo(g,h,i)perylene	U	U		330
Date Received	08/01/97	08/01/97		
Date Extracted	08/06/97	08/06/97		
Date Analyzed	08/26/97	08/27/97		

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-2.0 Aqueous
7097-1744A
GERAGHTY & MILLER
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: SBLKSJ

Lab Sample Id: SBLKSJ Client Sample Id: Method Blank

CAS#	Compound	RT	Estimated Conc., ug/L
	UNKNOWN	5.91	7J
111-76-2	ETHANOL, 2-BUTOXY-	7.84	3JN
	UNKNOWN ALKANE	27.43	3J
	UNKNOWN ALKANE	26.20	2J
	UNKNOWN ALKANE	26.79	2J

Lab Sample Id: 971744A-02 Client Sample Id: FB-3

CAS#	Compound	RT	Estimated Conc., ug/L
	UNKNOWN	~~5.90~~	~~11JB~~ R
	UNKNOWN	33.15	2J
	UNKNOWN	15.53	2J
	UNKNOWN SILOXANE	24.27	2J

Lab Sample Id: 971744A-04 Client Sample Id: FB 073197

CAS#	Compound	RT	Estimated Conc., ug/L
	UNKNOWN	5.90	4J
	UNKNOWN	15.52	2J
	UNKNOWN ACID	15.16	2J

See Appendix for qualifier definitions

TABLE SV-2.1
7097-1744A
GERAGHTY & MILLER
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Soil

Related Method Blank: SBLKKJ

Lab Sample Id: SBLKKJ Client Sample Id: Method Blank

CAS#	Compound	RT	Estimated Conc., ug/Kg
	ALDOL CONDENSATION PRODUCT	6.56	4000JA R
	UNKNOWN	5.95	520J
	UNKNOWN	8.08	240J
	UNKNOWN C7H14 ISOMER	5.48	220J
	UNKNOWN C6H12 ISOMER	6.31	210J
	UNKNOWN	3.65	80J
	UNKNOWN	9.84	73J
	UNKNOWN	15.53	71J
	UNKNOWN	8.51	70J
	UNKNOWN	12.14	69J

Lab Sample Id: 971744A-01 Client Sample Id: TPVII S

CAS#	Compound	RT	Estimated Conc., ug/Kg
	UNKNOWN PENTACHLOROBIPHENYL	22.85	6900J
	UNKNOWN TETRACHLOROBIPHENYL	22.78	4800J
	UNKNOWN PENTACHLOROBIPHENYL	23.48	4600J
	UNKNOWN PENTACHLOROBIPHENYL	23.90	3600J
	ALDOL CONDENSATION PRODUCT	6.50	3500JAB R
	UNKNOWN TETRACHLOROBIPHENYL	22.50	3500J
	UNKNOWN TETRACHLOROBIPHENYL	22.43	3400J
	UNKNOWN PENTACHLOROBIPHENYL	22.95	3300J
	UNKNOWN TETRACHLOROBIPHENYL	21.74	2700J
	UNKNOWN PENTACHLOROBIPHENYL	23.31	2600J
	UNKNOWN TETRACHLOROBIPHENYL	21.96	2600J
	UNKNOWN PENTACHLOROBIPHENYL	23.22	2500J
	UNKNOWN PENTACHLOROBIPHENYL	24.33	2500J
	UNKNOWN TETRACHLOROBIPHENYL	21.36	2500J
	UNKNOWN	28.60	2200J
	UNKNOWN HEXACHLOROBIPHENYL I	24.68	2200J
	UNKNOWN HEXACHLOROBIPHENYL I	24.22	2000J
	UNKNOWN HEXACHLOROBIPHENYL I	24.11	1700J
	UNKNOWN PENTACHLOROBIPHENYL	23.66	1700J
	UNKNOWN C7H14 ISOMER	5.42	1600JB
	UNKNOWN C7H14 ISOMER	6.19	1600JB

See Appendix for qualifier definitions

Soil

TABLE SV-2.2
7097-1744A
GERAGHTY & MILLER
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Related Method Blank: SBLKKJ

Lab Sample Id: 971744A-01RE Client Sample Id: TPVII SRE

CAS#	Compound	RT	Estimated Conc., ug/Kg
	UNKNOWN PENTACHLOROBIPHENYL	23.43	6200J
	UNKNOWN TETRACHLOROBIPHENYL	22.44	5900J
	UNKNOWN PENTACHLOROBIPHENYL	23.87	4200J
	UNKNOWN HEXACHLOROBIPHENYL I	24.07	4100J
	UNKNOWN TETRACHLOROBIPHENYL	22.37	4100J
	UNKNOWN TETRACHLOROBIPHENYL	21.31	4100J
	UNKNOWN HEXACHLOROBIPHENYL I	23.99	4000J
	UNKNOWN PENTACHLOROBIPHENYL	22.80	4000J
	UNKNOWN HEXACHLOROBIPHENYL I	23.80	3900J
	UNKNOWN PENTACHLOROBIPHENYL	23.63	3500J
	UNKNOWN TETRACHLOROBIPHENYL	21.69	3400J
	~~ALDOL CONDENSATION PRODUCT~~	~~6.45~~	~~3200JAB~~ R
	UNKNOWN PENTACHLOROBIPHENYL	23.34	3200J
	UNKNOWN TETRACHLOROBIPHENYL	22.72	3100J
	UNKNOWN HEXACHLOROBIPHENYL I	24.20	3000J
	UNKNOWN PENTACHLOROBIPHENYL	23.26	3000J
	UNKNOWN PENTACHLOROBIPHENYL	23.17	2800J
	UNKNOWN PENTACHLOROBIPHENYL	24.31	2500J
	UNKNOWN PENTACHLOROBIPHENYL	23.69	2300J
	UNKNOWN TETRACHLOROBIPHENYL	21.38	2300J
	UNKNOWN	24.55	2200J

See Appendix for qualifier definitions