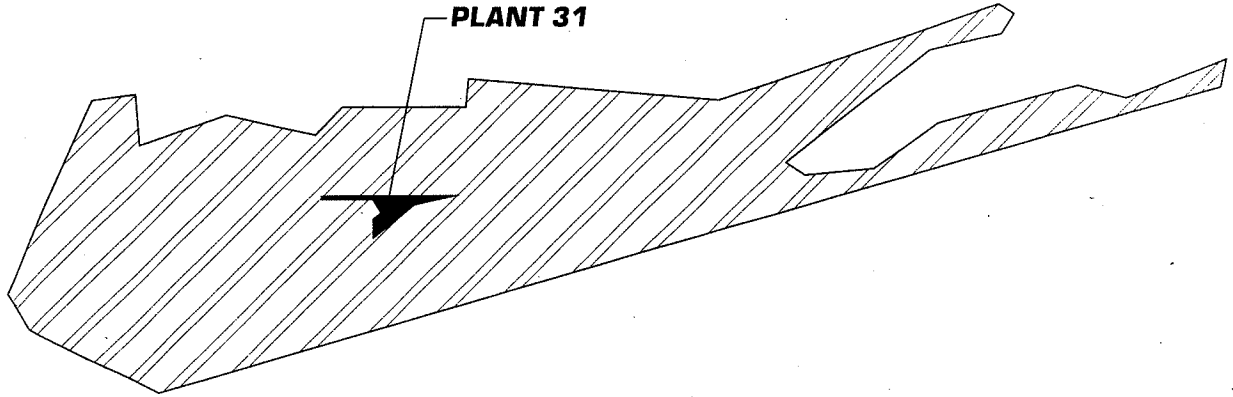


GRUMMAN AEROSPACE
CORPORATION
BETHPAGE FACILITY



**PHASE II SITE ASSESSMENT
PLANT 31**
GRUMMAN AEROSPACE CORPORATION
BETHPAGE, NEW YORK



Dvirka and Bartilucci
Consulting Engineers

DECEMBER 1996



**Dvirka
and
Bartilucci**

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015
516-364-9890 • 718-460-3634 • Fax: 516-364-9045

December 5, 1996

John Ohlmann, P.E.
Consultant for
Grumman Aerospace Corporation
Mail Stop: D08-001
Bethpage, NY 11714-3582

Re: Phase II Site Assessment
Plant 31
Bethpage, NY
D&B No. 1167-II

Dear Mr. Ohlmann:

Enclosed for your review, please find six copies of the document entitled:

*“Phase II Site Assessment
Plant 31
Bethpage, New York”*

If you have any questions and/or comments, please do not hesitate to contact Mr. Errol Kitt or me at (516) 364-9890.

Very truly yours,

Richard M. Walka
Vice President

RMW/cc

cc: A. Postyn (GAC)
E. Kitt (D&B)

◆1167\RMW96B-32.LTR

DEC 06 1996

A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.



**Dvirka
and
Bartilucci**

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015
516-364-9890 • 718-460-3634 • Fax: 516-364-9045

December 5, 1996

John Ohlmann, P.E.
Consultant for
Grumman Aerospace Corporation
Mail Stop: D08-001
Bethpage, NY 11714-3582

Re: Phase II Site Assessment
Plant 31
Bethpage, NY
D&B No. 1167-II

Dear Mr. Ohlmann:

Enclosed for your review, please find six copies of the document entitled:

*"Phase II Site Assessment
Plant 31
Bethpage, New York"*

If you have any questions and/or comments, please do not hesitate to contact Mr. Errol Kitt or me at (516) 364-9890.

Very truly yours,

Richard M. Walka
Vice President

RMW/cc

cc: A. Postyn (GAC)
E. Kitt (D&B)

◆1167\RMW96B-32.LTR

A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

DEC 06 1996

PHASE II SITE ASSESSMENT

**GRUMMAN AEROSPACE CORPORATION
PLANT 31
BETHPAGE, NEW YORK**

PREPARED BY

**DVIRKA AND BARTILUCCI
CONSULTING ENGINEERS
WOODBURY, NEW YORK**

DECEMBER 1996

▲1167\Y0927601.DOC(R01)

**PHASE II SITE ASSESSMENT
GRUMMAN AEROSPACE CORPORATION
PLANT 31
BETHPAGE, NEW YORK**

TABLE OF CONTENTS

| <u>Section</u> | <u>Title</u> | <u>Page</u> |
|----------------|--|-------------|
| 1.0 | INTRODUCTION..... | 1-1 |
| 2.0 | PHASE I SITE ASSESSMENT OVERVIEW | 2-1 |
| 2.1 | Test Areas "B" and "C" | 2-2 |
| 2.2 | Component Test Lab..... | 2-4 |
| 2.3 | Test Area "A" and Pump Room..... | 2-5 |
| 2.4 | Test Cell "6" | 2-6 |
| 2.5 | Thermal Test Area/Ammonia Room | 2-7 |
| 2.6 | Four Test Cell Rooms | 2-7 |
| 2.7 | Environmental Test Laboratory Hangar Area..... | 2-8 |
| 2.8 | Area of Former 5,000-gallon UST..... | 2-9 |
| 2.9 | Oil/Water Separator | 2-10 |
| 2.10 | Area of Former Recharge Basin..... | 2-11 |
| 2.11 | Fenced Chemical Storage Area..... | 2-12 |
| 2.12 | Vapor Cycle Building Drum Storage Area..... | 2-13 |
| 2.13 | Former Drum Storage Area..... | 2-13 |
| 2.14 | Waste Chemical Shed | 2-14 |
| 2.15 | Alley and Dry Well between Old Compressor Room and Environmental Test Laboratory Hangar Area..... | 2-15 |
| 2.16 | Former On-Site Sanitary Disposal System South of Plant 31 | 2-16 |
| 2.17 | Former On-Site Sanitary Disposal System Associated with Former Free-Standing Building..... | 2-17 |
| 2.18 | Former On-Site Sanitary Disposal System Associated with Former "Relocatable Office Module"..... | 2-18 |
| 2.19 | HVAC Room Floor Drain/Leaching Pool | 2-19 |
| 2.20 | Transformer Pad Sump | 2-19 |
| 2.21 | Groundwater Quality | 2-20 |
| 3.0 | PHASE II SITE ASSESSMENT FIELD PROGRAM..... | 3-1 |
| 3.1 | Air Monitoring Activities | 3-1 |
| 3.2 | Soil Sampling..... | 3-1 |
| 3.3 | Groundwater Sampling | 3-8 |

TABLE OF CONTENTS (continued)

| <u>Section</u> | <u>Title</u> | <u>Page</u> |
|----------------|---|-------------|
| 4.0 | FINDINGS | 4-1 |
| 4.1 | Soil Sampling..... | 4-1 |
| | 4.1.1 Test Areas..... | 4-1 |
| | 4.1.2 Area of Former 5,000-Gallon UST | 4-13 |
| | 4.1.3 Oil/Water Separator..... | 4-13 |
| | 4.1.4 Area of Former Recharge Basin | 4-21 |
| | 4.1.5 Drum/Chemical Storage Areas..... | 4-28 |
| | 4.1.6 Former On-Site Sanitary Systems | 4-41 |
| | 4.1.7 Leaching Pool and Dry Well..... | 4-54 |
| 4.2 | Groundwater Sampling | 4-62 |
| 4.3 | Historical Groundwater Quality Data | 4-67 |
| 4.4 | Data Validation | 4-69 |
| 5.0 | CONCLUSIONS AND RECOMMENDATIONS | 5-1 |
| 5.1 | Soil Sampling Program..... | 5-1 |
| | 5.1.1 Test Areas | 5-1 |
| | 5.1.2 Area of Former 5,000-Gallon UST | 5-3 |
| | 5.1.3 Oil/Water Separator | 5-4 |
| | 5.1.4 Area of Former Recharge Basin..... | 5-4 |
| | 5.1.5 Drum/Chemical Storage Areas | 5-5 |
| | 5.1.6 Former On-Site Sanitary Disposal Systems..... | 5-7 |
| | 5.1.7 Leaching Pool and Dry Well..... | 5-8 |
| 5.2 | Groundwater Sampling Program | 5-10 |

List of Appendices

| | |
|--------------------------------|---|
| Supplemental Information | A |
| Boring Logs | B |
| Laboratory Data | C |

List of Figures

| | | |
|-----|-------------------------|-----|
| 1-1 | Site Location Map..... | 1-2 |
| 1-2 | Site Boundary Map | 1-3 |

TABLE OF CONTENTS (continued)

List of Figures (continued)

| | | |
|-----|------------------------------------|-----|
| 2-1 | Site Plan | 2-3 |
| 3-1 | Boring Location Map | 3-2 |
| 3-2 | Monitoring Well Location Map | 3-9 |

List of Tables

| | | |
|------|--|------|
| 4-1 | Soil Sampling Results - Test Areas - Volatile Organic Compounds | 4-2 |
| 4-2 | Soil Sampling Results - Test Areas - Semivolatile Organic Compounds | 4-4 |
| 4-3 | Soil Sampling Results - Test Areas - Priority Pollutant Metals | 4-8 |
| 4-4 | Soil Sampling Results - Test Areas - Total Petroleum Hydrocarbons and Fuel-Related Constituents | 4-9 |
| 4-5 | Soil Sampling Results - Area of Former 5,000 Gallon UST - STARS Table 2 Compounds | 4-14 |
| 4-6 | Soil Sampling Results - Area of Former 5,000-Gallon UST - Total Petroleum Hydrocarbons and Fuel-Related Constituents | 4-15 |
| 4-7 | Soil Sampling Results - Oil/Water Separator - Volatile Organic Compounds | 4-16 |
| 4-8 | Soil Sampling Results - Oil/Water Separator - Semivolatile Organic Compounds | 4-17 |
| 4-9 | Soil Sampling Results - Oil/Water Separator - Priority Pollutant Metals | 4-19 |
| 4-10 | Soil Sampling Results - Oil/Water Separator - Total Petroleum Hydrocarbons and Fuel-Related Constituents | 4-20 |
| 4-11 | Soil Sampling Results - Area of Former Recharge Basin - Volatile Organic Compounds | 4-22 |
| 4-12 | Soil Sampling Results - Area of Former Recharge Basin - Semivolatile Organic Compounds | 4-23 |
| 4-13 | Soil Sampling Results - Area of Former Recharge Basin - Priority Pollutant Metals | 4-25 |
| 4-14 | Soil Sampling Results - Area of Former Recharge Basin - Total Petroleum Hydrocarbons and Fuel-Related Constituents | 4-26 |
| 4-15 | Soil Sampling Results - Area of Former Recharge Basin - Polychlorinated Biphenyls | 4-27 |
| 4-16 | Soil Sampling Results - Drum/Chemical Storage Areas - Volatile Organic Compounds | 4-29 |
| 4-17 | Soil Sampling Results - Drum/Chemical Storage Areas - Semivolatile Organic Compounds | 4-31 |

TABLE OF CONTENTS (continued)

List of Tables (continued)

| | | |
|------|---|------|
| 4-18 | Soil Sampling Results - Drum/Chemical Storage Areas- Priority Pollutant Metals..... | 4-35 |
| 4-19 | Soil Sampling Results - Drum/Chemical Storage Areas- Total Petroleum Hydrocarbons and Fuel-Related Constituents..... | 4-37 |
| 4-20 | Soil Sampling Results - Former On-site Sanitary Disposal Systems - Volatile Organic Compounds | 4-42 |
| 4-21 | Soil Sampling Results - Former On-site Sanitary Disposal Systems - Semivolatile Organic Compounds | 4-44 |
| 4-22 | Soil Sampling Results - Former On-site Sanitary Disposal Systems - Priority Pollutant Metals..... | 4-48 |
| 4-23 | Soil Sampling Results - Former On-site Sanitary Disposal Systems - Total Petroleum Hydrocarbons and Fuel-Related Constituents..... | 4-50 |
| 4-24 | Soil Sampling Results - Leaching Pool and Dry Well - Volatile Organic Compounds | 4-55 |
| 4-25 | Soil Sampling Results - Leaching Pool and Dry Well - Semivolatile Organic Compounds | 4-56 |
| 4-26 | Soil Sampling Results - Leaching Pool and Dry Well - Priority Pollutant Metals..... | 4-58 |
| 4-27 | Soil Sampling Results - Leaching Pool and Dry Well - Total Petroleum Hydrocarbons and Fuel-Related Constituents..... | 4-59 |
| 4-28 | Groundwater Sampling Results - Volatile Organic Compounds..... | 4-63 |
| 4-29 | Groundwater Sampling Results - Semivolatile Organic Compounds.... | 4-64 |
| 4-30 | Groundwater Sampling Results - Priority Pollutant Metals | 4-66 |

Section 1

1.0 INTRODUCTION

This report presents the findings of a Phase II Site Assessment undertaken at the Grumman Aerospace Corporation (GAC) property known as "Plant 31". The site is located approximately 800 feet south and 1,200 feet west of Stewart Avenue in Bethpage, within the Town of Oyster Bay, in Nassau County, New York. A site location map is presented on Figure 1-1. The site is located within an area zoned Industrial H. Other industrial properties are currently located north, south, east and west of the site.

The Plant 31 property comprises approximately 7 acres (current Tax I.D. Number: Section 46, Block G, portions of Lots 49 and 69) and is irregularly shaped. A site boundary map is presented on Figure 1-2. The property is generally level and the ground elevation is approximately 130 feet above mean sea level.

The Plant 31 property is currently owned by GAC. Plant 31 was historically utilized as an "air testing facility" by GAC, but is no longer active. There is one main building with several extensions or attached structures on the site. The original Plant 31 building was constructed between 1964 and 1965. The eastern part of the original main building is one story, and the western part is a two-story hangar-like structure referred to as the Environmental Test Laboratory Hangar area. Other additions to the facility are one-story structures, with the exception of a second floor mezzanine area over the southeast portion of one of the building extensions. Plant 31 comprises 60,000 square feet.

The objective of the Phase II Site Assessment is to: document the investigation activities undertaken in accordance with the scope of work developed from the recommendations of the Phase I Site Assessment report prepared by Dvirka and Bartilucci Consulting Engineers; present the results obtained from the laboratory analysis of environmental samples collected as part of the Phase II Site Assessment field program; and provide an interpretation of analytical results with respect to appropriate environmental standards, guidance values and criteria. Section 2 of this document presents an overview of the findings, conclusions and recommendations of the

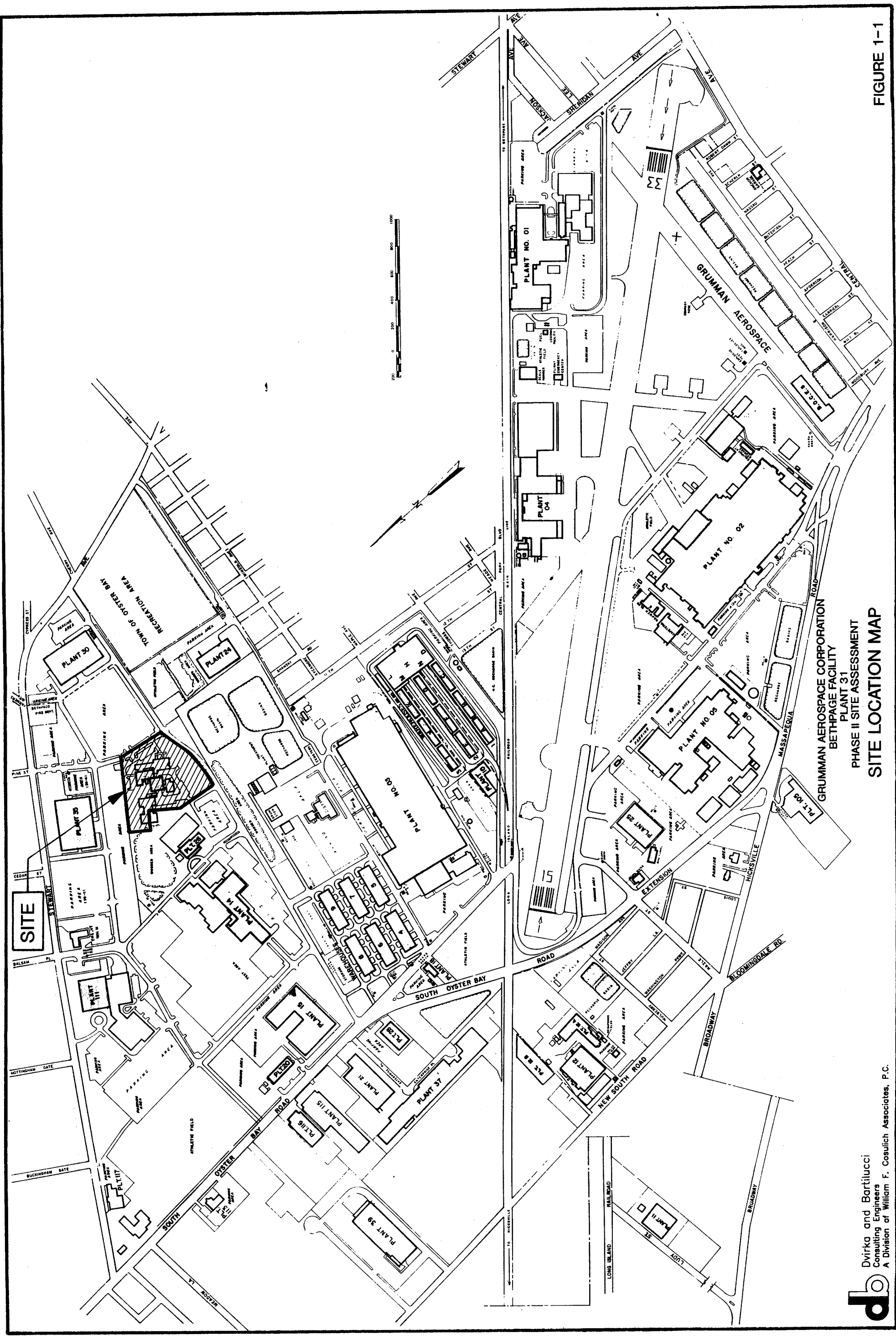
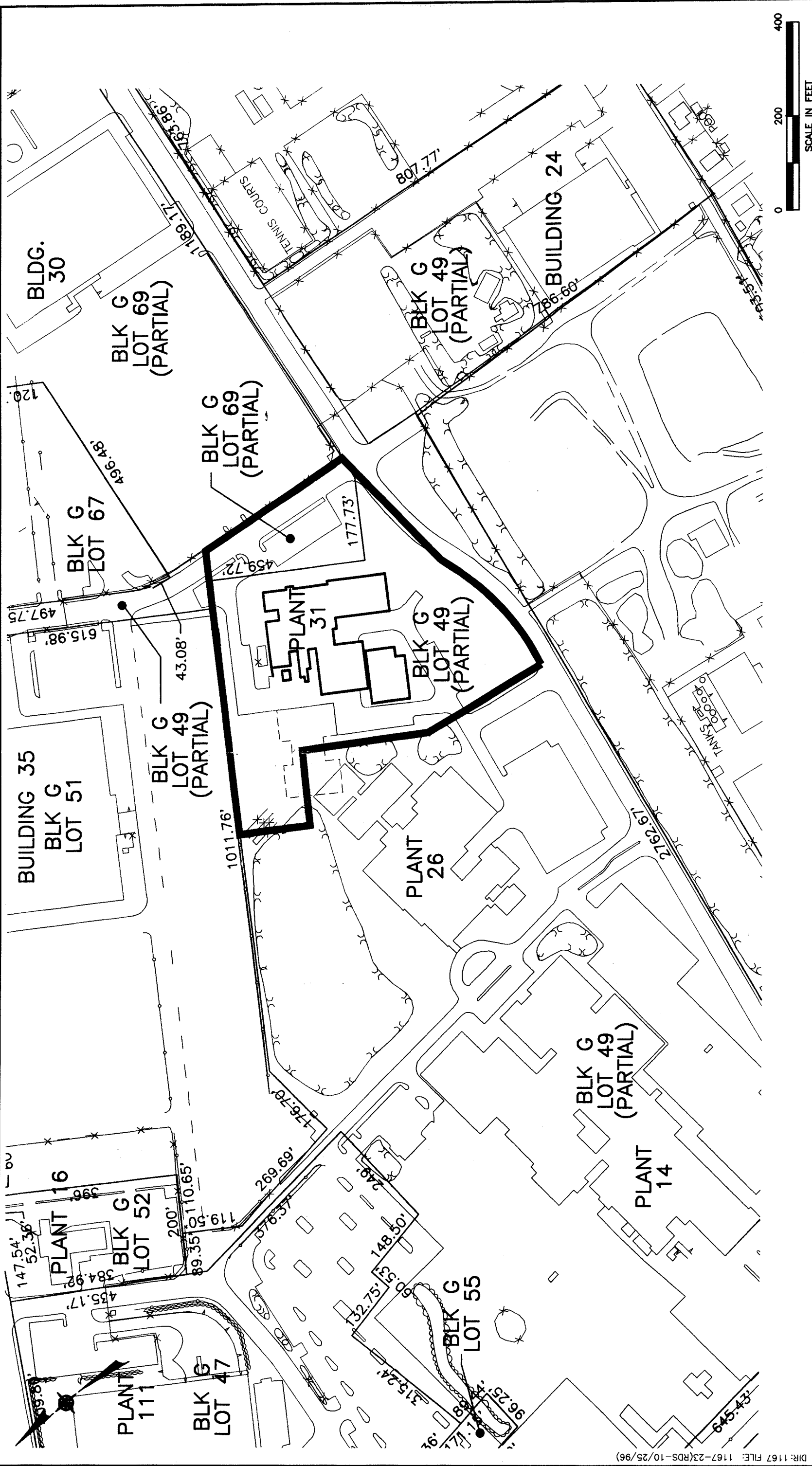


FIGURE 1-1

GRUMMAN AEROSPACE CORPORATION
 BETHPAGE FACILITY
 PLANT 31
 PHASE II SITE ASSESSMENT
 SITE LOCATION MAP

db
 Dvirka and Bartilucci
 Consulting Engineers
 A Division of William F. Cosulich Associates, P.C.



GRUMMAN AEROSPACE CORPORATION
 BETHPAGE FACILITY
 PLANT 31 - PHASE II SITE ASSESSMENT

SITE BOUNDARY MAP

db Dvirka and Bartilucci
 Consulting Engineers
 A Division of William F. Cosulich Associates, P.C.

Phase I Site Assessment. The procedures followed throughout the course of the Phase II Site Assessment field program are described in Section 3. The findings of the Phase II Site Assessment field program are presented in Section 4. The conclusions and recommendations of the Phase II Site Assessment are presented in Section 5. Recommendations regarding further investigative activities to enhance and/or clarify the activities undertaken as part of this Phase II Site Assessment and/or remedial activities in identified areas of environmental concern are provided.

Section 2

2.0 PHASE I SITE ASSESSMENT OVERVIEW

This section provides an overview of the findings, conclusions and areas of potential environmental concern identified on-site in the Phase I Site Assessment along with the recommendations for Phase II Assessment activities at the site. The Phase I Site Assessment identified the following areas of potential environmental concern at the site:

Interior

- Test Areas "B" and "C"
- Component Test Lab
- Test Area "A" and Pump Room
- Test Cell "6"
- Thermal Test Area/Ammonia Room
- Four Test Cell Rooms
- Environmental Test Laboratory Hangar Area

Exterior

- Area of Former 5,000-gallon UST
- Oil/Water Separator
- Area of Former Recharge Basin
- Fenced Chemical Storage Area
- Vapor Cycle Building Drum Storage Area
- Former Drum Storage Area
- Waste Chemical Shed
- Alley and Dry Well between Old Compressor Room and Environmental Test Laboratory Hangar Area
- Former On-Site Sanitary Disposal System South of Plant 31
- Former On-Site Sanitary Disposal System Associated with Former Free-Standing Buildings

- Former On-Site Sanitary Disposal System Associated with Former “Relocatable Office Module”
- HVAC Room Floor Drain/Leaching Pool
- Transformer Pad Sump

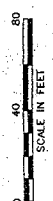
A site plan of the Plant 31 site is presented on Figure 2-1. The locations of the areas of potential environmental concern at the site are depicted on Figure 2-1.

2.1 Test Areas “B” and “C”

Findings

During a site inspection conducted as part of the Phase I Site Assessment, a pit in the floor near the center of Test Area “C” was found to be filled with water, and a slight oil sheen was noted. This pit is approximately 12 feet long by 10 feet wide by 8 feet deep. A review of construction drawings dated 1964 indicated that the pit was once designated as the “L.T.R. Test Pit,” and the bottom of the pit has a 4-inch drain that discharges to a 4-foot diameter, 4-foot deep dry well. The historic use of the pit could not be determined based upon a review of available information. It was not known whether the pit regularly or periodically received plant discharges in the past. Therefore, this pit was identified as a potential area of environmental concern.

Another pit, approximately 8 feet long by 10 feet wide by 8 feet deep, is located in the southeast corner of Test Area “B”. This pit was dry at the time of the Phase I site inspection, and the base of the pit was filled with earthen material and large stones. A representative of GAC indicated that some aircraft parts and machinery were found stored in the pit, which had been covered over with removable flooring. A review of construction drawings dated 1964 indicated that the pit was once designated as the “S.O.X. Pit.” The historic use of the pit could not be determined based upon a review of available information. It is not known whether the pit



| | |
|-------------|-----------|
| PROJECT NO. | 1167-II |
| DATE | NOV. 1986 |
| SCALE | 1"=40' |

SITE PLAN

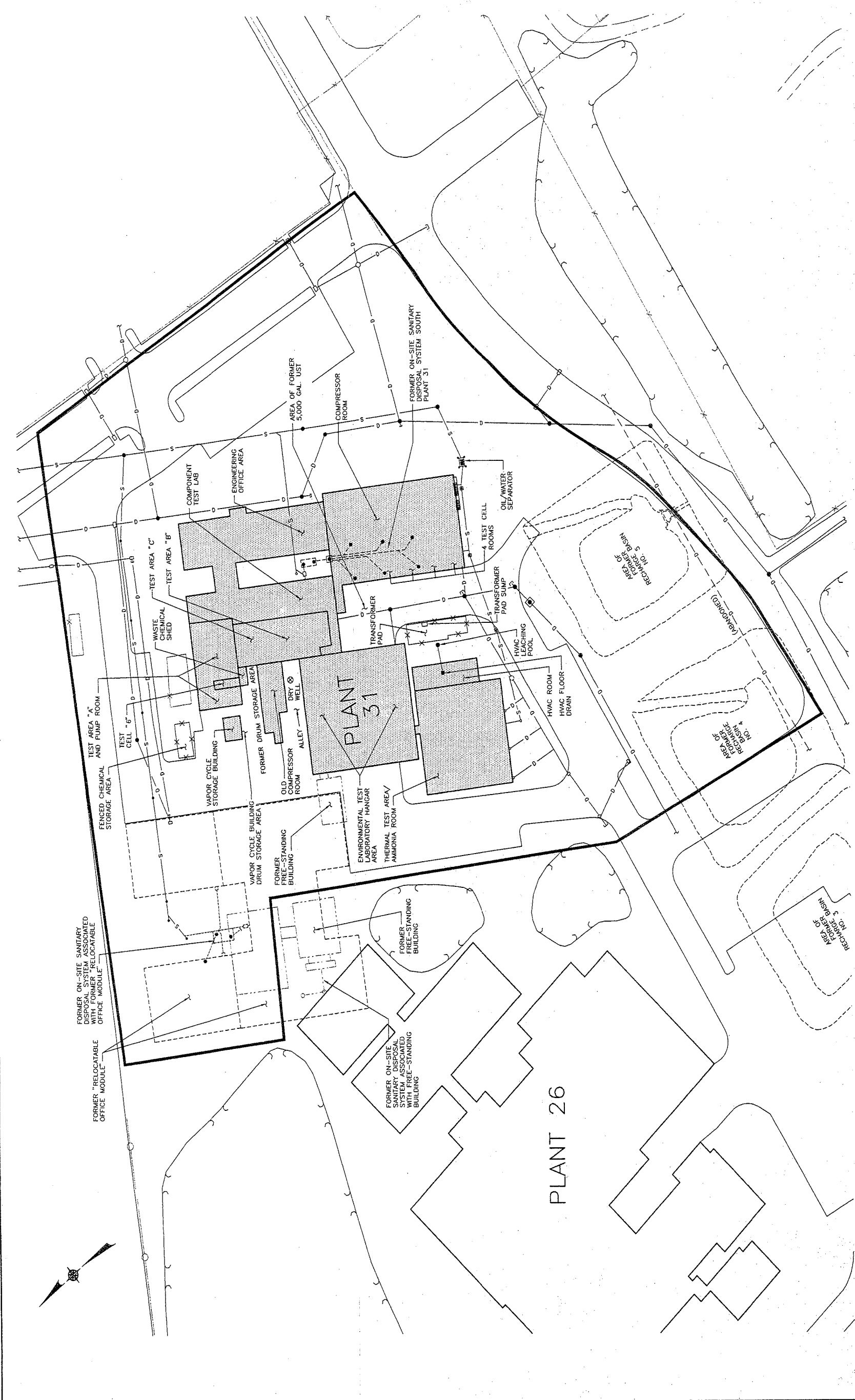
**GRUMMAN AEROSPACE CORPORATION
BETHPAGE FACILITY
PLANT 31**

db
DVRKA AND BARTILUCCI
CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

| | |
|--|------|
| UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. | |
| PROJECT ENGINEER: | E.K. |
| DESIGNED BY: | C.W. |
| DRAWN BY: | R.S. |
| CHECKED BY: | E.K. |

| NO. | DATE | REVISION |
|-----|------|----------|
| | | |
| | | |
| | | |
| | | |

PROJECT NO. 1167-II
DATE: 11/17/86



PLANT 26

received plant discharges in the past. Therefore, this pit was identified as a potential area of environmental concern.

Recommendations

It was recommended that the water within the pit in Test Area "C" be removed and disposed of properly by GAC. Subsequent to the clean out of the pit, it was recommended that a soil boring be advanced within the pit in the dry well to a depth of at least 4 feet below the bottom of the dry well with split spoon sampling at the 0 to 2-foot and 2 to 4-foot intervals. It was recommended that both samples be obtained for laboratory analysis for the following parameters: priority pollutant metals (by USEPA Method 6010), volatile organic compounds (by USEPA Method 8240), semivolatile organic compounds (by USEPA Method 8270), and total petroleum hydrocarbons (by USEPA Method 418.1). Analysis of the samples for fuel-related constituents (by NYSDOH Method 310-13) was recommended only if total petroleum hydrocarbons were detected.

With respect to the Test Area "B" pit, it was recommended that a soil boring be advanced at the low point of this pit to a depth of 4 feet beneath the bottom of the pit with split spoon sampling at the 0 to 2-foot and 2 to 4-foot intervals. Laboratory analysis of both samples for the same constituents as the pit in Test Area "C" was recommended.

2.2 Component Test Lab

Findings

It was determined that the Component Test Lab was the location of two mercury spills in 1993. According to Hazardous Incident Reports on file at GAC, the mercury was released in the southwestern corner of the room onto a work bench and floor. The Hazardous Incident Reports indicate that the GAC Safety Department responded, and that the room was sealed off. According to the reports, the mercury was vacuumed and the residual material was removed to

the GAC Plant 3 drum pad. Based upon available information, it appeared that the spills were contained and that the cleanup response was appropriate. Therefore, it was concluded that no further investigation was warranted.

2.3 Test Area "A" and Pump Room

During the site inspections conducted during the Phase I Site Assessment, machinery located by the rear rollup door in the Pump Room was noted to be leaking oil into a plastic drip pan, and oil staining was noted on the floor. Oil stains were also noted on the exterior pavement outside of the rollup door. Since it was unknown whether a release(s) could have impacted surrounding soils outside the building in the vicinity of the rollup door, this area was identified as a potential area of environmental concern.

In addition, a review of construction drawings dated 1964 indicated that a 2.5-foot deep pit was located under the floor beneath the northern half of Test Area "A." The pit was designated as the "I.E.S. Simulator Pit" and had a 4-inch diameter floor drain. This pit/floor drain may have received plant discharges in the past and was determined to be a potential contaminant pathway. The drain piping within the pit appears to be connected with roof drains and other floor drains in the building to a main drainage pipe that traverses the building from north to south. This drainage pipe appears to exit the building where it connects to a storm water drainage pipe outside the building which led to a series of former recharge basins located to the south. One of the former basins, identified as Recharge Basin 5, was formerly located on the southern portion of the Plant 31 property. This recharge basin was identified as a potential area of environmental concern (see Section 2.10 for further discussion).

Recommendations

As a result of the oil stains noted on both the inside flooring and outside asphalt by the rear rollup doors in the Pump Room, it was recommended that a soil boring be advanced outside of the building to a depth of 4 feet with split spoon sampling at the 0 to 2-foot and 2 to 4-foot

intervals. It was recommended that both soil samples be analyzed for the following parameters: volatile organic compounds (VOCs) by Method 8240, semivolatile organic compounds (SVOCs) by Method 8270, and total petroleum hydrocarbons (TPHCs) by Method 418.1. Analysis of the samples for fuel-related constituents (Method 310-13) was recommended only if TPHCs were detected.

In addition, since the floor drain in the "I.E.S. Simulator Pit" was connected to piping which led to the storm water drainage pipe that discharged to the former recharge basins, it was recommended that former Recharge Basin 5 be sampled (see Section 2.10 for further discussion).

2.4 Test Cell "6"

Findings

During the Phase I site inspections, two 55-gallon drums of "Turco 9045" were observed in this area. The flooring in this area was stained and there were floor drains. Prior spills may have possibly discharged to the floor drains. The floor drains are a potential contaminant pathway. A 1964 construction drawing appears to indicate that the floor drain piping leads to a main drainage pipe that exits the building, where it is connected to the storm water drainage pipe outside the building, which led to the former series of recharge basins. Therefore, former Recharge Basin 5 was again identified as a potential area of environmental concern (see Section 2.10 for further discussion).

Recommendations

Since it appeared that drainage from this potential area of concern ultimately discharged into the former series of recharge basins, it was recommended that former Recharge Basin 5 be sampled (see Section 2.10 for further discussion).

2.5 Thermal Test Area/Ammonia Room

Findings

A rusting 55-gallon drum was found in the Ammonia Room during the Phase I site inspection and stains were observed on the floor by the drum. The contents of the drum were unknown. Labels on the drum stated "freon," "used" and "lube oil." The condition of the drum in connection with the stained flooring made this a potential area of environmental concern. Although the integrity of the floor beneath the drum was unknown, cracks were not observed in the floor around the drum and throughout the room and there are no floor drains. Therefore, it was concluded that there did not appear to be a potential contaminant pathway, and no further investigation was warranted.

2.6 Four Test Cell Rooms

Findings

At the exterior doors to each of the four test cells (Test Cell "1," Test Cell "2," Test Cell "3" and Test Cell "4"), large grated floor/trench drains were noted during the Phase I site inspection. Oil stains were observed on the floors. These floor drains may have received constituents of concern released during testing procedures. Construction drawings were not available for this area of the building. However, GAC personnel indicated that these floor drains were connected to an oil/water separator located outside the south end of the building. Therefore, it was concluded that the oil/water separator was a potential area of environmental concern (see Section 2.9 for further discussion).

Recommendations

Since it was determined that the trench drains discharged to an oil/water separator, it was recommended that sampling be undertaken at the oil/water separator (see Section 2.9 for further discussion).

2.7 Environmental Test Laboratory Hangar Area

Findings

Staining was noted on the floor in this area during the Phase I site inspections. Floor drains are shown on construction drawings from 1964. A 1964 construction drawing of the hangar area shows that it was initially utilized as a "Hull Test Facility." Two large tanks were noted on the drawing. One was labeled "L.E.M. Test Tank" (southwest corner of room), and the other was labeled "C.O.D. Tank" (center of the room). According to GAC personnel, these tanks were used for hydrostatic testing of aircraft and spacecraft parts. It was recommended that the prior contents of these tanks be identified, if possible, due to the fact that four floor drains were located around the "C.O.D. Tank." The floor drains are a potential contaminant pathway. These floor drains are connected to the storm water drainage pipe outside the building, which led to the series of former recharge basins. Therefore, former Recharge Basin 5 was identified as a potential area of environmental concern (see Section 2.10 for further discussion).

In addition, engineering drawings dated 1984 show the construction of pipe trenches, a sump pit (2 feet by 2 feet by 0.5 feet deep) in the trench, and a pit (11 feet by 11 feet by 6 feet deep) below the vacuum test chamber. These trenches and pits may have received constituents of concern released during testing procedures. The discharge points of the pits are unknown. Therefore, it was concluded that the pits and discharge points were potential areas of environmental concern. In addition, GAC personnel indicated that the trenches may be connected to drainage pipes that lead to the storm water drainage system which once discharged

to the former series of recharge basins. Therefore, former Recharge Basin 5 was identified as a potential area of environmental concern (see Section 2.10 for further discussion).

Recommendations

Since construction drawings indicated that floor drains in this area were connected to the storm water drainage pipe that led to the former series of recharge basins, it was recommended that sampling be undertaken at former Recharge Basin 5 (see Section 2.10 for further discussion).

In addition, since the discharge points of the sump pit and the pit beneath the vacuum test chamber were unknown, it was recommended that two soil borings be advanced, one in each pit, to a depth of 4 feet below the bottom of each pit with split spoon sampling at the 0 to 2-foot and 2 to 4-foot intervals. It was recommended that the four soil samples be analyzed for the following parameters: priority pollutant metals (Method 6010), VOCs and SVOCs (Methods 8240 and 8270, respectively) and TPHCs (Method 418.1). Analysis for fuel-related constituents (Method 310-13) was recommended only if TPHCs were detected.

2.8 Area of Former 5,000-gallon UST

Findings

Based upon a review of 1964 construction drawings and interviews with GAC personnel, Plant 31 initially utilized a 5,000 or 6,000-gallon underground storage tank (UST) containing No. 4 fuel oil, located to the south of the building for space heat. Construction drawings showed that the 6-foot diameter tank was to be installed 3 feet below grade, 15 feet to the south of the building. According to GAC personnel, the 5,000 gallon tank was excavated and removed; however, records of the removal could not be located. As a result, the tank's proper closure and removal could not be adequately determined. Therefore, it was concluded that the location of the former 5,000-gallon UST was a potential area of environmental concern.

Recommendations

The Phase I Site Assessment recommended advancing two borings at the location of the former tank (approximately 15 to 20 feet south of the building) to a depth of 13 feet with provision for split spoon sampling at the 9 to 11-foot and 11 to 13-foot intervals. It was recommended that four soil samples be collected and analyzed for the following parameters: VOCs and SVOCs listed in Table 2 of Appendix B in NYSDEC's Spill Technology and Remediation Series (STARS) Memo #1: Petroleum Contaminated Soil Guidance Policy, and TPHCs (Method 418.1). Analysis for fuel-related constituents (Method 310-13) was recommended only if TPHCs were detected.

2.9 Oil/Water Separator

Findings

An oil/water separator is located near the southeast corner of the building outside of the Bleed Air Test Area (Compressor Room). The oil/water separator was installed below grade and is constructed of concrete with two steel doors/hatches at grade for access. The separator is approximately 8 feet long by 6 feet wide by 14 feet deep.

Based upon a review of GAC Quadrangle maps, there appears to be three pipes exiting two of the Plant 31 buildings that are connected to a sanitary line which leads to the oil/water separator. Two of these pipes exit the building that contained the Bleed Air Test Area (Compressor Room) and the Four Test Cell Rooms. The other pipe exits the building that contained the Flame Test Room, Bell Jar Lab, Thermal Test Area (Ammonia Room), Steam Boiler Room and the Fixture Fabrication and Equipment Holding Area (Former Machine Shop and Facilities Maintenance). The oil/water separator discharges to another sanitary line that is connected to the Nassau County sewer system along Stewart Avenue.

GAC personnel indicated that the floor drains in the Four Test Cell Rooms discharged to the oil/water separator. Other floor drains in the two buildings could be connected to the separator. During a Phase I site inspection, a mixture of oil and water was observed in the oil/water separator. The bottom of the separator could not be observed and the structural integrity of the bottom and sidewalls could not be ascertained. The oil/water separator received plant discharges containing oils and possibly other constituents of concern. Therefore, it was concluded that the oil/water separator was a potential area of environmental concern.

Recommendations

It was recommended that the liquid observed in the oil/water separator be removed, and that the bottom and sidewalls of the separator be visually inspected. In addition, it was recommended that one boring be advanced through the bottom of the oil/water separator, if possible, or adjacent to the separator, to a depth of approximately 18 feet below grade, and that soil samples be collected from the 14 to 16-foot and 16 to 18-foot sampling intervals for laboratory analysis. It was recommended that the two samples be analyzed for priority pollutant metals (Method 6010), VOCs and SVOCs (Methods 8240 and 8270, respectively) and total petroleum hydrocarbons (Method 418.1). Analysis of the samples for fuel-related constituents (Method 310-13) was recommended only if TPHCs were detected.

2.10 Area of Former Recharge Basin

Findings

Based upon a review of aerial photographs and GAC Quadrangle maps performed during the Phase I Site Assessment, a series of recharge basins were located by the southern boundary line of the property prior to 1967 until approximately 1983. The majority of Recharge Basin 5 was located on the Plant 31 site. This recharge basin received storm water drainage and building discharges from various locations located north, east and west of the site. Constituents of concern potentially associated with Plant 31 discharges, as well as discharges from other

buildings, may have accumulated in the soil of the recharge basin. Therefore, it was concluded that former Recharge Basin 5 was a potential area of environmental concern.

Recommendations

It was recommended that one soil boring be advanced within the location of former Recharge Basin 5 and that the boring be advanced with split spoon sampling at 5-foot intervals to the groundwater interface. It was recommended that three soil samples be collected, with one obtained at the approximate depth of the bottom of the former recharge basin and one at the groundwater interface. The three soil samples were to be analyzed for priority pollutant metals (Method 6010), VOCs (Method 8240), SVOCs (Method 8270), and TPHCs (Method 418.1). Analysis of the samples for fuel-related constituents (Method 310-13) was recommended only if TPHCs were detected.

2.11 Fenced Chemical Storage Area

Findings

A fenced chemical storage area existed adjacent to the north corner of the main building outside of the Pump Room. During the Phase I site inspections, cracks were observed in the concrete pad of the storage area. No secondary containment (i.e. berm) or roof was present. Due to the use of this area for the storage of chemicals, the presence of cracks in the pad and no secondary containment, it was concluded that this storage area was a potential area of environmental concern.

Recommendations

It was recommended that one soil boring be advanced in this area to a depth of 4 feet, with split spoon samples collected at the 0 to 2-foot and 2 to 4-foot intervals. Both of the soil samples were to be analyzed for the following parameters: priority pollutant metals (Method

6010), VOCs (Method 8240), SVOCs (Method 8270) and TPHCs (Method 418.1). Analysis of the samples for fuel-related constituents (Method 310-13) was recommended only if TPHCs were detected.

2.12 Vapor Cycle Building Drum Storage Area

Findings

During the Phase I site inspections, it was noted that several drums were once stored exterior of the Vapor Cycle Storage Building, as evidenced by at least six ring depressions in the asphalt along the south wall of the building. Also, it was observed that the asphalt in this area was stained and cracked. Therefore, this area was identified as a potential area of environmental concern.

Recommendations

It was recommended that one soil boring be advanced in this area to a depth of 4 feet, with split spoon samples collected at the 0 to 2-foot and 2 to 4-foot intervals. Both of the soil samples were to be analyzed for the following parameters: priority pollutant metals (Method 6010), VOCs (Method 8240), SVOCs (Method 8270) and TPHCs (Method 418.1). Analysis of the samples for fuel-related constituents (Method 310-13) was recommended only if TPHCs were detected.

2.13 Former Drum Storage Area

Findings

A former drum storage area was identified as being located outside along the north wall of the Old Compressor Room and along the south wall of the Pump Room and Waste Chemical Shed. The asphalt in this area was noted to be cracked and stained during the Phase I site

inspections. Several drums were possibly stored in this area, as evidenced by at least 18 ring depressions in the asphalt. A portion of the asphalt had reddish stains similar to that seen on the floor of the Old Compressor Room and on the concrete ramp leading from the Old Compressor Room to the former drum storage area alleyway. It was concluded that the former use of the area for drum storage, in combination with the cracked and stained asphalt, made this area a potential area of environmental concern.

Recommendations

Due to the size of the former drum storage area, it was recommended that three soil borings be advanced with provision for split spoon samples at the 0 to 2-foot and 2 to 4-foot intervals. It was recommended that two borings be advanced at locations with significant surficial staining, and one boring be advanced at a low point to be determined in the field. Two soil samples from each boring (total of six samples) were to be analyzed for priority pollutant metals (Method 6010), VOCs (Method 8240), SVOCs (Method 8270) and TPHCs (Method 418.1). Analysis of the samples for fuel-related constituents (Method 310-13) was recommended only if TPHCs were detected.

2.14 Waste Chemical Shed

Findings

A waste chemical shed was identified as located exterior of Plant 31 adjacent to the south wall of Test Area "A" and Test Cell "6". During the Phase I site inspections, drums possibly containing solvents and oil were present in the shed, staining, "Speedi Dry," cracks and standing water were observed on the concrete floor. The shed was not bermed. Therefore, this shed was identified as a potential area of environmental concern.

Recommendations

It was recommended that two soil borings be advanced with provision for split spoon samples at the 0 to 2-foot and 2 to 4-foot intervals. One boring was to be advanced at a location with significant surficial staining, and one boring was to be advanced at a low point to be determined in the field. It was recommended that two soil samples from each boring (total of four samples) be analyzed for priority pollutant metals (Method 6010), VOCs (Method 8240), SVOCs (Method 8270) and TPHCs (Method 418.1). Analysis of the samples for fuel-related constituents (Method 310-13) was recommended only if TPHCs were detected.

2.15 Alley and Dry Well between Old Compressor Room and Environmental Test Laboratory Hangar Area

Findings

During a Phase I site inspection, it was found that the asphalt in the alley had the same reddish staining as was noted on the floor of the Old Compressor Room and the asphalt in the former drum storage area. In addition, a dry well was present in the alleyway. The dry well appeared to be filled with sediment and debris to a depth of approximately 3 feet below grade, and contained a blackish liquid with an oily sheen. It was concluded that the staining, in combination with the existence of the dry well (and its contents), made this area a potential area of environmental concern.

Recommendations

Since the alley was noted to have reddish staining on the asphalt and the area drained to the dry well, it was recommended that a boring be advanced in the dry well. The size and depth of the dry well were unknown; however, the total depth of the dry well was assumed to be 10 feet. It was recommended that the boring be advanced to a depth of approximately 20 feet below grade with continuous split spoon sampling, with the collection of two samples from between 3

feet and 10 feet, and two samples from 10 feet to 20 feet. It was recommended that the four soil samples be analyzed for the following parameters: priority pollutant metals (Method 6010), VOCs (Method 8240), SVOCs (Method 8270) and TPHCs (Method 418.1). Analysis of the samples for fuel-related constituents (Method 310-13) was recommended only if TPHCs were detected.

2.16 Former On-Site Sanitary Disposal System South of Plant 31

Findings

Based upon a review of available information, an on-site sanitary disposal system was utilized at Plant 31 prior to the connection to the Nassau County sewer system sometime between 1983 and 1985. This former sanitary system would have received wastewater discharges from Plant 31 activities and, therefore, the system was identified as a potential area of environmental concern.

Recommendations

The former sanitary system is covered by a building addition comprised of the Engineering Office area, Compressor Room and Four Test Cells. It was recommended that three borings be installed outside of the building addition, adjacent to the Test Cell 4 doorway and along the wall between the doorways to Test Cells 2 and 3, so that the borings would be located within or immediately adjacent to the former leaching pools. Since the leaching pools were assumed to be approximately 12 feet deep, it was recommended that the three borings be advanced to a depth of 12 feet without split spoon sampling, and then advanced from 12 to 22 feet with continuous split spoon sampling. It was recommended that three soil samples be collected from each boring, at depths of 12 to 14 feet, 16 to 18 feet and 20 to 22 feet, and that the samples be analyzed for priority pollutant metals (Method 6010), VOCs (Method 8240), SVOCs (Method 8270), and TPHCs (Method 418.1). Analysis of the samples for fuel-related constituents (Method 310-13) was recommended only if TPHCs were detected.

2.17 Former On-Site Sanitary Disposal System Associated with Former Free-Standing Building

Findings

Based upon a 1980 construction drawing, two free-standing "temporary buildings" existed to the west of the main Plant 31 building. These "temporary buildings" were demolished prior to the construction of the "Relocatable Office Module" ("H"-shaped building). One of the buildings was noted to have an on-site sanitary disposal system comprised of two leaching pools. The historic use of this building could not be determined and it was not known whether constituents of concern may have been discharged to this sanitary system during the time of its use. Therefore, this sanitary system was identified as a potential area of environmental concern.

Recommendations

It was recommended that one soil boring be advanced in the vicinity of where the primary leaching pool was believed to be located. The leaching pool was assumed to be 12 feet deep. Therefore, it was recommended that the boring be advanced to a depth of 12 feet at the assumed location of the primary pool without split spoon sampling, and then advanced from 12 to 22 feet with continuous split spoon sampling. It was recommended that three soil samples be collected at 12 to 14 feet, 16 to 18 feet and 20 to 22 feet below grade, and that the samples be analyzed for priority pollutant metals (Method 6010), VOCs (Method 8240), SVOCs (Method 8270) and TPHCs (Method 418.1). Analysis of the samples for fuel-related constituents (Method 310-13) was recommended only if TPHCs were detected.

2.18 Former On-Site Sanitary Disposal System Associated with Former "Relocatable Office Module"

Findings

Based upon a review of available information, an on-site sanitary disposal system was utilized by the "H" shaped building addition also known as the "Relocatable Office Module". It appeared that the system was comprised of a septic tank and possibly two leaching pools. Based on a 1980 construction drawing, this system may have once been connected to the main sanitary disposal system located south of Plant 31 prior to being connected to the Nassau County sewer system.

This former sanitary system would have received wastewater discharges from the "Relocatable Office Module" during the time of its use. Although the reported use of the building appeared to be primarily office space, it was unclear whether portions of the building were also used for testing labs and it was not known whether constituents of concern may have been discharged to this system. Therefore, it was concluded that the sanitary system was a potential area of environmental concern.

Recommendations

It was recommended that one soil boring be advanced in the assumed location of the primary leaching pool and that the boring be advanced to a depth of 12 feet below grade without split spoon sampling, and then advanced from 12 to 22 feet with continuous split spoon sampling. It was recommended that three soil samples be collected at depths of 12 to 14 feet, 16 to 18 feet and 20 to 22 feet, and that the samples be analyzed for priority pollutant metals (Method 6010), VOCs (Method 8240), SVOCs (Method 8270) and TPHCs (Method 418.1). Analysis of the samples for fuel-related constituents (Method 310-13) was recommended only if TPHCs were detected:

2.19 HVAC Room Floor Drain/Leaching Pool

Findings

Based upon a review of construction drawings dated 1980, and confirmed by a Phase I site inspection, a floor drain within the HVAC Room (Mechanical Equipment Room) discharged to a 4-foot diameter, 10-foot deep leaching pool located outside and to the east of the room. Constituents of concern that may have been utilized or stored in the HVAC Room may have been discharged to the leaching pool and therefore, it was concluded that the leaching pool was a potential area of environmental concern.

Recommendations

It was recommended that a soil boring be advanced in the leaching pool to a depth of 10 feet below grade without split-spoon sampling and then advanced from 10 to 20 feet with continuous split spoon sampling. It was recommended that two soil samples be selected for laboratory analysis for the following parameters: priority pollutant metals (Method 6010), VOCs (Method 8240), SVOCs (Method 8270), and TPHCs (Method 418.1). Analysis of the samples for fuel-related constituents (Method 310-13) was recommended only if TPHCs were detected.

2.20 Transformer Pad Sump

Findings

During the Phase I site inspections, a transformer pad located near the south end of the Plant 31 building adjacent to the HVAC Room was noted to contain a small sump that receives storm water runoff from the pad. According to GAC personnel, if the storm water in the sump was determined to be "clean" by visual inspection (no oil sheen or discoloration), then it was pumped to a drainage pipe that is connected to the overall storm water drainage system for the facility that discharges to the recharge basins. If the water exhibited an oil sheen and/or was

discolored, then it was pumped into drums for disposal. It was concluded that it was possible that constituents of concern not observable by visual inspection could have been discharged to the storm water drainage pipe which once led to the former series of recharge basins. Therefore, former Recharge Basin 5 was identified as a potential area of environmental concern (see Section 2.10 for further discussion).

2.21 Groundwater Quality

Findings

The Phase I Site Assessment noted that the Naval Weapons Industrial Reserve Plant (NWIRP) site is located southwest of the Plant 31 property, and is upgradient with respect to the direction of groundwater flow for at least a portion of the year. Groundwater contour maps for April and August 1993 are included in Appendix A. The NWIRP is a State Priorities List (SPL) site. Recharge basins on the NWIRP property are located approximately 100 feet to the south of the Plant 31 boundary line. According to a Remedial Investigation (RI) report, soil and surface water samples collected from the NWIRP recharge basins, as well as groundwater samples collected in the vicinity of the recharge basins during the NWIRP Phase 1 RI, contained volatile organic compounds. Soil samples collected from the recharge basin area during the Phase 2 RI contained PCBs. As a result, it was concluded that potential off-site impacts to the groundwater from the NWIRP site remain a potential environmental concern.

Recommendations

It was recommended that existing monitoring well GM-8S be located and, if determined to be structurally sound, that a groundwater sample be collected and analyzed for priority pollutant metals (Method 6010), VOCs (Method 8240) and SVOCs (Method 8270). In addition, since existing monitoring wells PLMW-1 and B30MW-1 appeared to be downgradient of Plant 31 for at least a portion of the year, it was recommended that these wells be located, and if determined to be structurally sound, that groundwater samples be collected. Laboratory analysis of the samples for the same parameters as GM-8S was recommended.

Section 3

3.0 PHASE II SITE ASSESSMENT FIELD PROGRAM

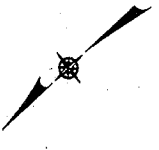
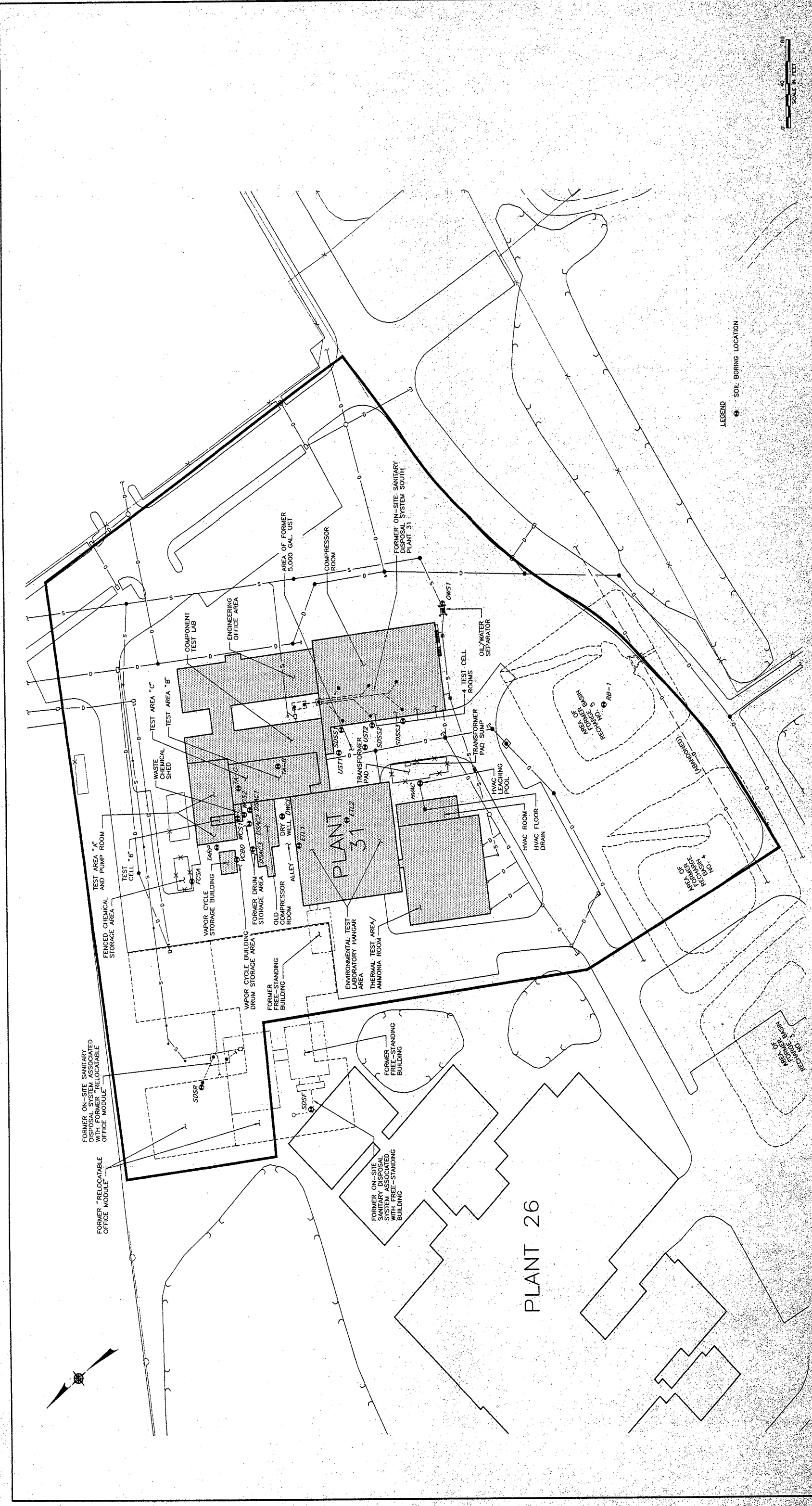
This section describes the field activities undertaken as part of the Phase II Site Assessment. Daily Field Activity Reports, which are available in the project file, provide documentation of the field program which included air monitoring, installation of 23 soil borings and soil probes, collection of soil samples for laboratory analysis, and collection of groundwater samples from two existing groundwater monitoring wells for laboratory analysis.

3.1 Air Monitoring Activities

During the advancement of the soil borings and probes, monitoring for volatile organic vapors in the worker's breathing zone and at the boring and probe holes was conducted utilizing a flame ionization detector (FID). Air monitoring results are documented in the project log book. The FID, an organic vapor analyzer (OVA-120), was also utilized to screen the soil samples collected. The soil sample screening results are documented on the Boring Logs presented in Appendix B. Other sample information records are available in the project log book for the Plant 31 site.


3.2 Soil Sampling

Soil samples were obtained from soil borings and probes advanced at the areas of environmental concern identified in the Phase I Environmental Site Assessment (see Section 2 for further discussion). Figure 3-1 shows the soil boring and probe locations. The analytical results of each soil sample are presented in Section 4. The soil sampling program is summarized as follows:



LEGEND
 SOIL BORING LOCATION



| | | | |
|---|--|--------------------------|---|
| | GRUMMAN AEROSPACE CORPORATION BETHPAGE FACILITY PLANT 31 | SOIL BORING LOCATION MAP | FIGURE 3-1 |
| | | | PROJECT NO. 1167-II DATE NOV. 1988 SCALE 1"=40' |
| UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS PROHIBITED BY EDUCATION LAW |  DVIRKA AND BARTILUCCI CONSULTING ENGINEERS A DIVISION OF WILLIAM F. COSSLUCCI ASSOCIATES, P.C. | | |
| PROJECT ENGINEER DRAWN BY CHECKED BY DATE | E.K. R.S. E.K. | | |

| Boring/ Sample Location | Sample Identification/ Depth | Sampling Interval | Intervals Selected for Analysis | Analysis |
|---|--|---|--|---|
| Test Area "C" (dry well beneath pit) | TA-C (0'-2') TA-C (2'-4') | 0'-4' below bottom of pit in dry well | 0'-2' 2'-4' | VOCs (Method 8240) SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) |
| Test Area "B" (adjacent to pit) | TA-B (0'-2') TA-B (2'-4') | 0'-4' below bottom of pit | 0'-2' 2'-4' | VOCs (Method 8240), SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) |
| Test Area "A" and Pump Room (outside building) | TARP (0'-2') TARP (2'-4') | 0'-4' below grade | 0'-2' 2'-4' | VOCs (Method 8240), SVOCs (Method 8270), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) |
| Environmental Test Laboratory Hangar Area (sump pit associated with trench system) | ETL1 (0'-2') ETL1 (2'-4') | 0'-4' below bottom of sump pit | 0'-2' 2'-4' | VOCs (Method 8240), SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) |
| Environmental Test Laboratory Hangar Area (pit below vacuum test chamber) | ETL2 (0'-2') ETL2 (2'-4') | 0'-4' below bottom of pit | 0'-2' 2'-4' | VOCs (Method 8240), SVOCs (Method 8270), Priority Pollutant Metals (Method 6010) TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) on ETL2 (2'-4') only |
| Area of Former Recharge Basin | RB-1 (25'-27') RB-1 (45'-47') RB-1 (65'-67') | 0' - 67' below grade, water table interface at 67' | 25' -27' 45' - 47' 65'-67' | VOCs (Method 8240), SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1), Fuel-Related Constituents (Method 8015) and PCBs (Method 8015) |

| <u>Boring/ Sample Location</u> | <u>Sample Identification/ Depth</u> | <u>Sampling Interval</u> | <u>Intervals Selected for Analysis</u> | <u>Analysis</u> |
|---|---|------------------------------|--|--|
| Area of Former 5,000-gallon UST | UST1 (9'-11') UST1 (11'-13') | 9'-13' below grade | 9'-11' 11'-13' | VOCs and SVOCs listed in NYSDEC STARS Table 2, TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) |
| Area of Former 5,000-gallon UST | UST2 (9'-11') UST2 (11'-13') | 9'-13' below grade | 9'-11' 11'-13' | VOCs and SVOCs listed in NYSDEC STARS Table 2, TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) |
| Oil/Water Separator (sampled adjacent to east side) | OWS1 (16'-18') OWS1 (18'-20') | 16'-20' below grade | 16'-18' 18'-20' | VOCs (Method 8240), SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) |
| Fenced Chemical Storage Area | FCSA (0'-2') FCSA (2'-4') | 0'-4' below grade | 0'-2' 2'-4' | VOCs (Method 8240), SVOCs (Method 8270), Priority Pollutant Metals (Method 6010) and TPHCs (Method 418.1) |
| Vapor Cycle Building Drum Storage Area | VCBD (0'-2') VCBD (2'-4') | 0'-4' below grade | 0'-2' 2'-4' | VOCs (Method 8240), SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) on VCBD (0'-2') only |
| Waste Chemical Shed (inside shed) | WCS1 (0'-2') WCS1 (2'-4') | 0'-4' below grade | 0'-2' 2'-4' | VOCs (Method 8240), SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) on WCS1 (0'-2') only |

| <u>Boring/ Sample Location</u> | <u>Sample Identification/ Depth</u> | <u>Sampling Interval</u> | <u>Intervals Selected for Analysis</u> | <u>Analysis</u> |
|---|--|------------------------------|--|---|
| Waste Chemical Shed (outside shed) | WCS2 (0'-2') WCS2 (2'-4') | 0'-4' below grade | 0'-2' 2'-4' | VOCs (Method 8240) SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) |
| Former Drum Storage Area between Old Compressor Room and Test Area "A" | DSAC1 (0'-2') DSAC1 (2'-4') | 0'-4' below grade | 0'-2' 2'-4' | VOCs (Method 8240), SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) |
| Former Drum Storage Area between Old Compressor Room and Test Area "A" | DSAC2 (0'-2') DSAC2 (2'-4') | 0'-4' below grade | 0'-2' 2'-4' | VOCs (Method 8240), SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) |
| Former Drum Storage Area between Old Compressor Room and Test Area "A" | DSAC3 (0'-2') DSAC3 (2'-4') | 0'-4' below grade | 0'-2' 2'-4' | VOCs (Method 8240), SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) |
| Former On-site Sanitary Disposal System South of Plant 31 | SDSS1A (12'-14') SDSS1B (16'-18') SDSS1C (20'-22') | 12'-22' below grade | 12'-14' 16'-18' 20'-22' | VOCs (Method 8240), SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) on SDSS1C only |

| Boring/ Sample Location | Sample Identification/ Depth | Sampling Interval | Intervals Selected for Analysis | Analysis |
|---|--|------------------------------|--|---|
| Former On-site Sanitary Disposal System South of Plant 31 | SDSS2A (12'-14') SDSS2B (16'-18') SDSS2C (20'-22') | 12'-22' below grade | 12'-14' 16'-18' 20'-22' | VOCs (Method 8240), SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) on SDSS2A and SDSS2C only |
| Former On-site Sanitary Disposal System South of Plant 31 | SDSS3A (12'-14') SDSS3B (16'-18') SDSS3C (20'-22') | 12'-22' below grade | 12'-14' 16'-18' 20'-22' | VOCs (Method 8240), SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) on SDSS3A and SDSS3B only |
| Former On-site Sanitary Disposal System Associated with Former Free- Standing Building | SDSF (12'-14') SDSF (16'-18') SDSF (20'-22') | 12'-22' below grade | 12'-14' 16'-18' 20'-22' | VOCs (Method 8240) SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) |
| Former On-site Sanitary Disposal System Associated with Former "Relocatable" Office Module | SDSR (12'-14') SDSR (16'-18') SDSR (20'-22') | 12'-22' below grade | 12'-14' 16'-18' 20'-22' | VOCs (Method 8240) SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) |
| HVAC Room Floor Drain/Leaching Pool | HVAC (10'-12') HVAC (12'-14') | 10'-14' below grade | 10'-12' 12'-14' | VOCs (Method 8240) SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) |

| Boring/ Sample Location | Sample Identification/ Depth | Sampling Interval | Intervals Selected for Analysis | Analysis |
|---|---|------------------------------|--|---|
| Dry Well between Old Compressor Room and Environmental Test Hangar | DWCE (3'-5') DWCE (5'-7') DWCE (11'-13') DWCE 19'-21') | 3'-21' below grade | 3'-5' 5'-7' 11'-13' 19'-21' | VOCs (Method 8240) SVOCs (Method 8270), Priority Pollutant Metals (Method 6010), TPHCs (Method 418.1) and Fuel-Related Constituents (Method 8015) |

The soil samples were analyzed for fuel-related constituents by Method 8015. Method 8015 allows for quantitative results for gasoline range organics or diesel range organics and the identification of other fuel products (i.e. motor oil, fuel oil, etc.).

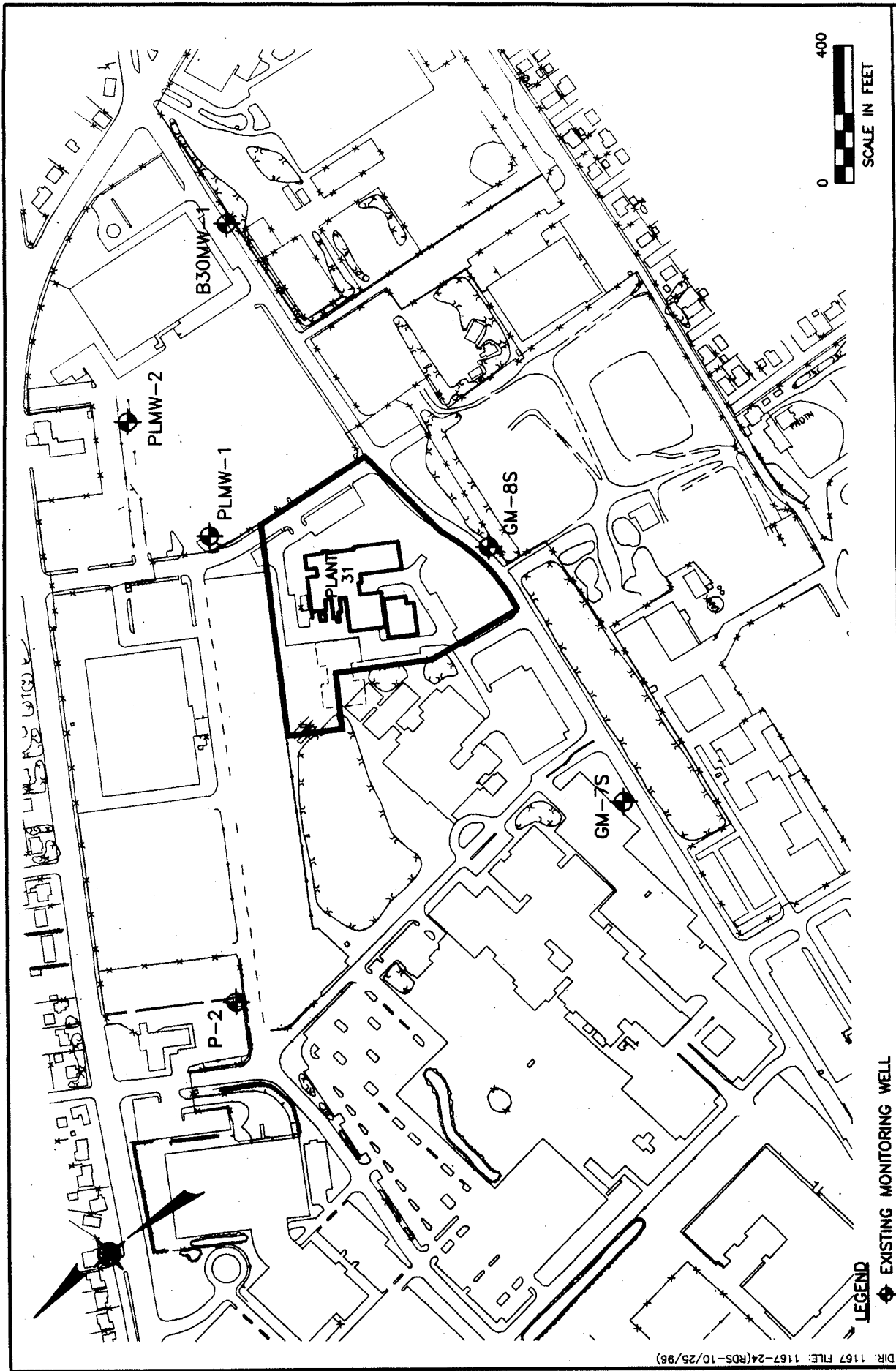
Soil probes were advanced at Test Areas "B" and "C" and the Environmental Test Laboratory Hangar Area with a truck-mounted Earthprobe 200 Geoprobe System, and the soil probes at the HVAC Room Floor Drain/Leaching Pool and at the Waste Chemical Shed were advanced with an electric hammer drill. The truck-mounted Earthprobe 200 and the electric hammer drill were both equipped with a 2-inch diameter by 2-foot long soil probe sampler and drill rods. A 1-inch diameter clear plastic polyethylene terephthalate-G (PETG) sample tube liner, dedicated to each soil probe sample, was utilized to secure the soil sample within the Geoprobe soil sampler. The soil probes were installed by hydraulically driving the soil sampler, sample the tube liner and drill rods to the desired depth. The soil sampler was then hydraulically lifted to the surface by the Geoprobe system.

Soil borings were advanced at the remaining locations utilizing a drilling rig equipped with 4 1/4-inch hollow stem augers. Soil samples at these locations were obtained at 2-foot intervals. Each sample was collected utilizing 24-inch long stainless steel split spoon sampler which was driven into the soil using a safety hammer. The sampler was retrieved from the borehole and opened to remove the soil sample for characterization, screening for volatile organics (using a FID), and retention for laboratory analysis.

All soil samples were physically and visually characterized and inspected for the presence of staining or discoloration and were screened for volatile organic vapors using the FID (see Appendix B). All soil sampling equipment, with the exception of the PETG tube liners which were dedicated to each soil probe sample, was decontaminated between each sample location. Decontamination procedures consisted of an external alconox wash followed by a distilled/deionized water rinse. The decontamination water was contained in 55-gallon drums for disposal.

3.3 Groundwater Sampling

Groundwater sampling activities were conducted at two monitoring wells, PLMW-1 and B30MW-1, which are located downgradient of the site for at least a portion of the year. Monitoring well PLMW-1 is located approximately 150 feet northeast of the Plant 31 property and monitoring well B30MW-1 is located approximately 750 feet east of the property. Figure 3-2 shows the location of both wells and other monitoring wells in the vicinity of the site. Prior to groundwater sampling, a minimum of three times the volume of standing water in the casing and sandpack in each well was removed with a bailer. One groundwater sample was collected from each well for laboratory analysis. Each groundwater sample was analyzed for VOCs (Method 8240), SVOCs (Method 8270) and priority pollutant metals (Method 6010). The samples were analyzed for both total and dissolved metal constituents. Monitoring well GM-8S was not sampled because it was determined to be dry. The analytical results of the groundwater samples are presented in Section 4.



DIR: 1167 FILE: 1167-24(RDS-10/25/96)

GRUMMAN AEROSPACE CORPORATION
 BETHPAGE FACILITY
 PLANT 31 - PHASE II SITE ASSESSMENT
MONITORING WELL LOCATION MAP

db
 Dvirka and Bartilucci
 Consulting Engineers
 A Division of William F. Cosulich Associates, P.C.

FIGURE 3-2

Section 4

4.0 FINDINGS

This section presents the findings of the Phase II Site Assessment including a summary of the analytical results of the soil and groundwater samples obtained during the Phase II field program. Soil sample results are compared to the criteria included in Appendix A of the NYSDEC's Technical and Administrative Guidance Memorandum (TAGM) No. 4046 ("NYSDEC TAGM criteria"), as well as the typical Eastern USA background soil contaminant concentration ranges included in the TAGM ("Eastern USA background levels"). Groundwater sample results are compared to NYSDEC Class GA groundwater standards and guidance values. The laboratory data is presented in Appendix C.

4.1 Soil Sampling

4.1.1 Test Areas

As stated in Section 3, soil samples were collected at several "test areas" including Test Area "C", Test Area "B", Test Area "A" and Pump Room, and the Environmental Test Laboratory Hangar Area. The analytical results of the soil samples are presented on Tables 4-1 through 4-4. The results are summarized as follows:

Test Area "C" - Sample TA-C (0'-2')

- Volatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria
- Semivolatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria
- Priority Pollutant Metals
 - Cadmium detected at a concentration (47.9 mg/kg) exceeding the Eastern USA background level (1.0 mg/kg)
 - Chromium detected at a concentration (41.9 mg/kg) exceeding the Eastern USA background level (40 mg/kg)

TABLE 4-1
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
TEST AREAS
VOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION | TEST AREA "C" | | TEST AREA "B" | | TEST AREA "A"/PUMP ROOM | | CONTRACT REQUIRED DETECTION LIMITS (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|----------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|--|
| | TA-C 0-2 FT 9/16/96 1 | TA-C 2-4 FT 9/16/96 1 | TA-B 0-2 FT 9/16/96 1 | TA-B 2-4 FT 9/16/96 1 | TARP 0-2 FT 9/13/96 1 | TARP 2-4 FT 9/13/96 1 | | |
| PERCENT SOLIDS | 79 | 97 | 98 | 98 | 93 | 91 | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | | |
| Chloromethane | U | U | U | U | U | U | 10 | --- |
| Bromomethane | U | U | U | U | U | U | 10 | --- |
| Vinyl Chloride | U | U | U | U | U | U | 10 | 200 |
| Chloroethane | U | U | U | U | U | U | 10 | 1900 |
| Methylene Chloride | U | U | U | U | U | U | 10 | 100 |
| Acetone | U | U | U | U | U | U | 10 | 200 |
| Carbon Disulfide | U | U | U | U | U | U | 10 | 2700 |
| 1,1-Dichloroethene | U | U | U | U | U | U | 10 | 400 |
| 1,1-Dichloroethane | U | U | U | U | U | U | 10 | 200 |
| 1,2-Dichloroethene (total) | U | U | U | U | U | U | 10 | 300 |
| Chloroform | U | U | U | U | U | U | 10 | 300 |
| 1,2-Dichloroethane | U | U | U | U | U | U | 10 | 100 |
| 2-Butanone | U | U | U | U | U | U | 10 | 300 |
| 1,1,1-Trichloroethane | U | U | U | U | U | U | 10 | 800 |
| Carbon Tetrachloride | U | U | U | U | U | U | 10 | 600 |
| Bromodichloromethane | U | U | U | U | U | U | 10 | --- |
| 1,2-Dichloropropane | U | U | U | U | U | U | 10 | --- |
| cis-1,3-Dichloropropene | U | U | U | U | U | U | 10 | --- |
| Trichloroethene | U | U | U | U | U | U | 10 | --- |
| Dibromochloromethane | U | U | U | U | U | U | 10 | 700 |
| 1,1,2-Trichloroethane | U | U | U | U | U | U | 10 | --- |
| Benzene | U | U | U | U | U | U | 10 | 60 |
| trans-1,3-Dichloropropene | U | U | U | U | U | U | 10 | --- |
| Bromoform | U | U | U | U | U | U | 10 | --- |
| 4-Methyl-2-pentanone | U | U | U | U | U | U | 10 | 1000 |
| 2-Hexanone | U | U | U | U | U | U | 10 | --- |
| Tetrachloroethene | U | U | U | U | U | U | 10 | 1400 |
| 1,1,2,2-Tetrachloroethane | U | U | U | U | U | U | 10 | 600 |
| Toluene | U | U | U | U | U | U | 10 | 1500 |
| Chlorobenzene | U | U | U | U | U | U | 10 | 1700 |
| Ethylbenzene | U | U | U | U | U | U | 10 | 5500 |
| Styrene | U | U | U | U | U | U | 10 | --- |
| Xylene (total) | U | U | U | U | U | U | 10 | 1200 |
| TOTAL VOCs | 41 | 0 | 0 | 0 | 0 | 0 | 10000 | |

QUALIFIERS
U: Compound analyzed for but not detected.
NOTES
---: Not established.

TABLE 4-1 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 TEST AREAS
 VOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION | ENVIRONMENTAL TEST LABORATORY HANGAR AREA | | | | | FB-4 | CONTRACT REQUIRED DETECTION LIMIT (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|----------------------------|---|---------------------------|---------------------------|---------------------------|-----------------------|--------|---|--|
| | ETL1 0-2 FT 9/16/96 | ETL1 2-4 FT 9/16/96 | ETL2 0-2 FT 9/16/96 | ETL2 2-4 FT 9/16/96 | ETL2 98 (ug/kg) | | | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 97 | 98 | 94 | 98 | 98 | | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/L) | (ug/kg) | (ug/kg) |
| Chloromethane | U | U | U | U | U | U | 10 | --- |
| Bromomethane | U | U | U | U | U | U | 10 | --- |
| Vinyl Chloride | U | U | U | U | U | U | 10 | 200 |
| Chloroethane | U | U | U | U | U | U | 10 | 1900 |
| Methylene Chloride | U | U | U | U | U | U | 10 | 100 |
| Acetone | U | U | U | U | U | U | 10 | 200 |
| Carbon Disulfide | U | U | U | U | U | U | 10 | 2700 |
| 1,1-Dichloroethene | U | U | U | U | U | U | 10 | 400 |
| 1,1-Dichloroethane | U | U | U | U | U | U | 10 | 200 |
| 1,2-Dichloroethene (total) | U | U | U | U | U | U | 10 | 300 |
| Chloroform | U | U | U | U | U | U | 10 | 300 |
| 1,2-Dichloroethane | U | U | U | U | U | U | 10 | 100 |
| 2-Butanone | U | U | U | U | U | U | 10 | 300 |
| 1,1,1-Trichloroethane | U | U | U | U | U | U | 10 | 800 |
| Carbon Tetrachloride | U | U | U | U | U | U | 10 | 600 |
| Bromodichloromethane | U | U | U | U | U | U | 10 | --- |
| 1,2-Dichloropropane | U | U | U | U | U | U | 10 | --- |
| cis-1,3-Dichloropropene | U | U | U | U | U | U | 10 | --- |
| Trichloroethene | U | U | U | U | U | U | 10 | 700 |
| Dibromochloromethane | U | U | U | U | U | U | 10 | --- |
| 1,1,2-Trichloroethane | U | U | U | U | U | U | 10 | --- |
| Benzene | U | U | U | U | U | U | 10 | 60 |
| trans-1,3-Dichloropropene | U | U | U | U | U | U | 10 | --- |
| Bromoform | U | U | U | U | U | U | 10 | --- |
| 4-Methyl-2-pentanone | U | U | U | U | U | U | 10 | 1000 |
| 2-Hexanone | U | U | U | U | U | U | 10 | --- |
| Tetrachloroethene | U | U | U | U | U | U | 10 | 1400 |
| 1,1,2,2-Tetrachloroethane | U | U | U | U | U | U | 10 | 600 |
| Toluene | U | U | U | U | U | U | 10 | 1500 |
| Chlorobenzene | U | U | U | U | U | U | 10 | 1700 |
| Ethylbenzene | U | U | U | U | U | U | 10 | 5500 |
| Styrene | U | U | U | U | U | U | 10 | --- |
| Xylene (total) | U | U | U | U | U | U | 10 | 1200 |
| TOTAL VOCs | 0 | 0 | 0 | 0 | 0 | 0 | | 10000 |

QUALIFIERS
 U: Compound analyzed for but not detected.
 NOTES
 -- : Not applicable.
 --- : Not established.

TABLE 4-2
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
TEST AREAS
SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION SAMPLE IDENTIFICATION SAMPLE DEPTH DATE OF COLLECTION DILUTION FACTOR PERCENT SOLIDS UNITS | TEST AREA "C" | | TEST AREA "B" | | TEST AREA "A"/PUMP ROOM | | CONTRACT REQUIRED DETECTION LIMITS (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|--|
| | TA-C 0-2 FT 9/16/96 1 | TA-C 2-4 FT 9/16/96 1 | TA-B 0-2 FT 9/16/96 1 | TA-B 2-4 FT 9/16/96 1 | TARP 0-2 FT 9/13/96 1 | TARP 2-4 FT 9/13/96 1 | | |
| Phenol | U | U | U | U | U | U | 330 | 30 or MDL |
| bis(2-Chloroethyl)ether | U | U | U | U | U | U | 330 | --- |
| 2-Chlorophenol | U | U | U | U | U | U | 330 | 800 |
| 1,3-Dichlorobenzene | U | U | U | U | U | U | 330 | 1600 |
| 1,4-Dichlorobenzene | U | U | U | U | U | U | 330 | 8500 |
| 1,2-Dichlorobenzene | U | U | U | U | U | U | 330 | 7900 |
| 2-Methylphenol | U | U | U | U | U | U | 330 | 100 or MDL |
| 2,2-Oxybis(1-chloropropane) | U | U | U | U | U | U | 330 | --- |
| 4-Methylphenol | 150 | U | U | U | U | U | 330 | 900 |
| N-Nitroso-di-n-propylamine | U | U | U | U | U | U | 330 | --- |
| Hexachloroethane | U | U | U | U | U | U | 330 | --- |
| Nitrobenzene | U | U | U | U | U | U | 330 | 200 or MDL |
| Isophorone | U | U | U | U | U | U | 330 | 4400 |
| 2-Nitrophenol | U | U | U | U | U | U | 330 | 330 or MDL |
| 2,4-Dimethylphenol | 110 | U | U | U | U | U | 330 | --- |
| bis(2-Chloroethoxy)methane | U | U | U | U | U | U | 330 | 400 |
| 2,4-Dichlorophenol | U | U | U | U | U | U | 330 | 3400 |
| 1,2,4-Trichlorobenzene | U | U | U | U | U | U | 330 | 13000 |
| Naphthalene | U | U | U | U | U | U | 330 | 220 or MDL |
| 4-Chloroaniline | U | U | U | U | U | U | 330 | --- |
| Hexachlorobutadiene | U | U | U | U | U | U | 330 | 240 or MDL |
| 4-Chloro-3-methylphenol | U | U | U | U | U | U | 330 | 36400 |
| 2-Methylnaphthalene | U | U | U | U | U | U | 330 | --- |
| Hexachlorocyclopentadiene | U | U | U | U | U | U | 330 | --- |
| 2,4,6-Trichlorophenol | U | U | U | U | U | U | 330 | 100 |
| 2,4,5-Trichlorophenol | U | U | U | U | U | U | 330 | --- |
| 2-Chloronaphthalene | U | U | U | U | U | U | 330 | --- |
| 2-Nitroaniline | U | U | U | U | U | U | 330 | 430 or MDL |
| Dimethylphthalate | U | U | U | U | U | U | 330 | 2000 |
| Acenaphthylene | U | U | U | U | U | U | 330 | 41000 |
| 2,6-Dinitrotoluene | U | U | U | U | U | U | 330 | 1000 |
| 3-Nitroaniline | U | U | U | U | U | U | 330 | 500 or MDL |
| Acenaphthene | U | U | U | U | U | U | 330 | 50000 |
| 2,4-Dinitrophenol | U | U | U | U | U | U | 330 | 200 or MDL |
| 4-Nitrophenol | U | U | U | U | U | U | 800 | 100 or MDL |

TABLE 4-2 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 TEST AREAS
 SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION | TEST AREA "C" | | TEST AREA "B" | | TEST AREA "A"/PUMP ROOM | | CONTRACT REQUIRED DETECTION LIMITS (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|----------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--|--|
| | T-A-C 0-2 FT 9/16/96 1 | T-A-C 2-4 FT 9/16/96 1 | T-A-B 0-2 FT 9/16/96 1 | T-A-B 2-4 FT 9/16/96 1 | TARP 0-2 FT 9/13/96 1 | TARP 2-4 FT 9/13/96 1 | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | | |
| Dibenzofuran | U | U | U | U | U | U | 330 | 6200 |
| 2,4-Dinitrotoluene | U | U | U | U | U | U | 330 | --- |
| Diethylphthalate | U | U | U | U | U | U | 330 | 7100 |
| 4-Chlorophenyl-phenylether | U | U | U | U | U | U | 330 | --- |
| Fluorene | U | U | U | U | U | U | 330 | 50000 |
| 4-Nitroaniline | U | U | U | U | U | U | 800 | --- |
| 4,6-Dinitro-2-methylphenol | U | U | U | U | U | U | 800 | --- |
| N-Nitrosodiphenylamine | U | U | U | U | U | U | 330 | --- |
| 4-Bromophenyl-phenylether | U | U | U | U | U | U | 330 | --- |
| Hexachlorobenzene | U | U | U | U | U | U | 330 | 410 |
| Pentachlorophenol | U | U | U | U | U | U | 330 | 1000 or MDL |
| Phenanthrene | 49 | U | U | U | U | U | 800 | 50000 |
| Anthracene | U | U | U | U | U | U | 330 | 50000 |
| Carbazole | U | U | U | U | U | U | 330 | --- |
| Di-n-butylphthalate | 130 | U | U | U | U | U | 330 | 8100 |
| Fluoranthene | 110 | U | U | U | U | U | 330 | 50000 |
| Pyrene | 100 | U | U | U | U | U | 330 | 50000 |
| Butylbenzylphthalate | 560 | U | U | U | U | U | 330 | 50000 |
| 3,3'-Dichlorobenzidine | U | U | U | U | U | U | 330 | --- |
| Benzo(a)anthracene | U | U | U | U | U | U | 330 | 224 or MDL |
| Chrysene | 81 | U | U | U | U | U | 330 | 400 |
| bis(2-Ethylhexyl)phthalate | 27000 | 72 | U | U | U | U | 330 | 50000 |
| Di-n-octylphthalate | U | U | U | U | U | U | 330 | 50000 |
| Benzo(b)fluoranthene | U | U | U | U | U | U | 330 | 50000 |
| Benzo(k)fluoranthene | U | U | U | U | U | U | 330 | 1100 |
| Benzo(a)pyrene | U | U | U | U | U | U | 330 | 1100 |
| Indeno(1,2,3-cd)pyrene | U | U | U | U | U | U | 330 | 61 or MDL |
| Dibenzo(a,h)anthracene | U | U | U | U | U | U | 330 | 3200 |
| Benzo(g,h,i)perylene | 74 | U | U | U | U | U | 330 | 14 or MDL |
| TOTAL SVOCs | 28364 | 72 | 0 | 0 | 160 | 48 | | 500000 |

NOTES
 --- : Not established.
 MDL: Method Detection Limit.

QUALIFIERS
 U: Compound analyzed for but not detected.
 J: Compound found at a concentration below the detection limit.
 D: Compound analyzed at a dilution factor of 10.

TABLE 4-2 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 TEST AREAS
 SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION | ENVIRONMENTAL TEST LABORATORY HANGAR AREA | | | | FB-4 | CONTRACT REQUIRED DETECTION LIMIT | NYSDEC TAGM 4046 APPENDIX A CRITERIA |
|-----------------------------|---|---------|---------|---------|---------|-----------------------------------|--------------------------------------|
| | ETL1 | ETL1 | ETL2 | ETL2 | | | |
| SAMPLE IDENTIFICATION | ETL1 | ETL1 | ETL2 | ETL2 | | | |
| SAMPLE DEPTH | 0-2 FT | 2-4 FT | 0-2 FT | 2-4 FT | | | |
| DATE OF COLLECTION | 9/16/96 | 9/16/96 | 9/16/96 | 9/16/96 | 9/16/96 | | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 97 | 98 | 94 | 98 | | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/L) | (ug/kg) | (ug/kg) |
| Phenol | U | U | U | U | U | 330 | 30 or MDL |
| bis(2-Chloroethyl)ether | U | U | U | U | U | 330 | --- |
| 2-Chlorophenol | U | U | U | U | U | 330 | 800 |
| 1,3-Dichlorobenzene | U | U | U | U | U | 330 | 1600 |
| 1,4-Dichlorobenzene | U | U | U | U | U | 330 | 8500 |
| 1,2-Dichlorobenzene | U | U | U | U | U | 330 | 7900 |
| 2-Methylphenol | U | U | U | U | U | 330 | 100 or MDL |
| 2,2-Oxybis(1-chloropropane) | U | U | U | U | U | 330 | --- |
| 4-Methylphenol | U | U | U | U | U | 330 | 900 |
| N-Nitroso-di-n-propylamine | U | U | U | U | U | 330 | --- |
| Hexachloroethane | U | U | U | U | U | 330 | --- |
| Nitrobenzene | U | U | U | U | U | 330 | 200 or MDL |
| Isophorone | U | U | U | U | U | 330 | 4400 |
| 2-Nitrophenol | U | U | U | U | U | 330 | 330 or MDL |
| 2,4-Dimethylphenol | U | U | U | U | U | 330 | --- |
| bis(2-Chloroethoxy)methane | U | U | U | U | U | 330 | --- |
| 2,4-Dichlorophenol | U | U | U | U | U | 330 | 400 |
| 1,2,4-Trichlorobenzene | U | U | U | U | U | 330 | 3400 |
| Naphthalene | U | U | U | U | U | 330 | 13000 |
| 4-Chloroaniline | U | U | U | U | U | 330 | 220 or MDL |
| Hexachlorobutadiene | U | U | U | U | U | 330 | --- |
| 4-Chloro-3-methylphenol | U | U | U | U | U | 330 | 240 or MDL |
| 2-Methylnaphthalene | U | U | U | U | U | 330 | 36400 |
| Hexachlorocyclopentadiene | U | U | U | U | U | 330 | --- |
| 2,4,6-Trichlorophenol | U | U | U | U | U | 800 | 100 |
| 2,4,5-Trichlorophenol | U | U | U | U | U | 330 | --- |
| 2-Chloronaphthalene | U | U | U | U | U | 800 | 430 or MDL |
| 2-Nitroaniline | U | U | U | U | U | 800 | 2000 |
| Dimethylphthalate | U | U | U | U | U | 330 | 41000 |
| Acenaphthylene | U | U | U | U | U | 330 | 1000 |
| 2,6-Dinitrotoluene | U | U | U | U | U | 800 | 500 or MDL |
| 3-Nitroaniline | U | U | U | U | U | 330 | 50000 |
| Acenaphthene | U | U | U | U | U | 800 | 200 or MDL |
| 2,4-Dinitrophenol | U | U | U | U | U | 800 | 100 or MDL |
| 4-Nitrophenol | U | U | U | U | U | 800 | --- |

TABLE 4-2 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 TEST AREAS
 SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION SAMPLE IDENTIFICATION | ENVIRONMENTAL TEST LABORATORY HANGAR AREA | | | | FB-4 (ug/L) | CONTRACT REQUIRED DETECTION LIMIT (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|--|---|--------------------------------|--------------------------------|--------------------------------|----------------|---|--|
| | ETL1 0-2 FT 9/16/96 1 | ETL1 2-4 FT 9/16/96 1 | ETL2 0-2 FT 9/16/96 1 | ETL2 2-4 FT 9/16/96 1 | | | |
| PERCENT SOLIDS | 97 | 98 | 94 | 98 | -- | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/L) | (ug/kg) | (ug/kg) |
| Dibenzofuran | U | U | U | U | U | 330 | 6200 |
| 2,4-Dinitrotoluene | U | U | U | U | U | 330 | --- |
| Diethylphthalate | U | U | U | U | U | 330 | 7100 |
| 4-Chlorophenyl-phenylether | U | U | U | U | U | 330 | --- |
| Fluorene | U | U | U | U | U | 330 | 50000 |
| 4-Nitroaniline | U | U | U | U | U | 800 | --- |
| 4,6-Dinitro-2-methylphenol | U | U | U | U | U | 800 | --- |
| N-Nitrosodiphenylamine | U | U | U | U | U | 330 | --- |
| 4-Bromophenyl-phenylether | U | U | U | U | U | 330 | --- |
| Hexachlorobenzene | U | U | U | U | U | 330 | 410 |
| Pentachlorophenol | U | U | U | U | U | 800 | 1000 or MDL |
| Phenanthrene | U | U | U | U | U | 330 | 50000 |
| Anthracene | U | U | U | U | U | 330 | 50000 |
| Carbazole | U | U | U | U | U | 330 | --- |
| Di-n-butylphthalate | U | U | U | U | U | 330 | 8100 |
| Fluoranthene | U | U | U | U | U | 330 | 50000 |
| Pyrene | U | U | U | U | U | 330 | 50000 |
| Butylbenzylphthalate | U | U | U | U | U | 330 | 50000 |
| 3,3'-Dichlorobenzidine | U | U | U | U | U | 330 | 224 or MDL |
| Benzo(a)anthracene | U | U | U | U | U | 330 | 400 |
| Chrysene | U | U | U | U | U | 330 | 50000 |
| bis(2-Ethylhexyl)phthalate | U | U | U | U | U | 330 | 50000 |
| Di-n-octylphthalate | U | U | U | U | U | 330 | 1100 |
| Benzo(b)fluoranthene | U | U | U | U | U | 330 | 1100 |
| Benzo(k)fluoranthene | U | U | U | U | U | 330 | 61 or MDL |
| Benzo(a)pyrene | U | U | U | U | U | 330 | 3200 |
| Indeno(1,2,3-cd)pyrene | U | U | U | U | U | 330 | 14 or MDL |
| Dibenzo(a,h)anthracene | U | U | U | U | U | 330 | 50000 |
| Benzo(g,h,i)perylene | U | U | U | U | U | 330 | 50000 |
| TOTAL SVOCs | 0 | 0 | 0 | 0 | 0 | | 500000 |

NOTES
 -- : Not applicable.
 --- : Not established.
 MDL: Method Detection Limit.

QUALIFIERS
 U: Compound analyzed for but not detected.

TABLE 4-3
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
TEST AREAS
PRIORITY POLLUTANT METALS

| SAMPLE LOCATION | TEST AREA "C" | | | TEST AREA "B" | | | ENVIRONMENTAL TEST LABORATORY HANGAR AREA | | | INSTRUMENT DETECTION LIMITS (ug/L) | EASTERN USA BACKGROUND LEVELS (mg/kg) | |
|-----------------|----------------------------|----------------------------|--------------------------|----------------------------|----------------------------|--------------------------|---|---------------------------|---------------------------|------------------------------------|---------------------------------------|---------------------------|
| | T-A-C 0-2 FT 9/16/96 | T-A-C 2-4 FT 9/16/96 | T-A-C 97.5 (mg/kg) | T-A-B 0-2 FT 9/16/96 | T-A-B 2-4 FT 9/16/96 | T-A-B 98.2 (mg/kg) | ETL1 0-2 FT 9/16/96 | ETL1 2-4 FT 9/16/96 | ETL2 0-2 FT 9/16/96 | | | ETL2 2-4 FT 9/16/96 |
| Antimony | 0.642 B | | | 0.117 B | 0.160 B | 0.197 B | U | U | U | U | 2.72 B | 3.9 |
| Arsenic | 2.07 U | 2.22 U | | 1.58 U | 0.865 U | 1.27 U | 1.05 U | 1.59 U | 1.19 U | 1.19 U | U | 1.6 |
| Beryllium | | | | 0.107 B | 0.0244 B | U | U | 0.0476 B | U | U | U | 0.1 |
| Cadmium | 47.9 | 0.183 B | | 6.05 B | 10.2 U | 0.0277 B | 0.0205 B | 0.0624 B | 0.129 B | 0.129 B | 18.0 B | 0.4 |
| Chromium | 41.9 | 7.62 | | 3.85 | 5.44 | 4.43 | 4.09 | 8.11 | 8.08 | 8.08 | 2.00 B | 0.6 |
| Copper | 66.5 | 3.68 | | 1.60 | 1.13 U | 2.21 U | 2.51 | 5.34 | 6.79 | 6.79 | U | 1.3 |
| Lead | 25.1 | 1.07 | | | | | 1.74 | 2.63 | 2.17 | 2.17 | U | 1.5 |
| Mercury | 272 D | 5.31 D* | | | U | U | U | U | U | U | U | 0.2 |
| Nickel | 1.18 | 1.41 | | 1.77 | 1.60 U | 2.64 U | 1.94 U | 4.66 U | 3.31 U | 3.31 U | 1.73 B | 1.2 |
| Selenium | 0.305 B | U | | U | 0.332 B | U | U | U | U | U | U | 3.2 |
| Silver | 1.19 B | U | | U | U | 1.50 U | 0.104 B | U | 0.0437 B | 0.0437 B | U | 0.7 |
| Thallium | U | U | | U | U | U | U | U | U | U | U | 2.1 |
| Zinc | 284 | 4.52 | | 7.28 | 4.15 | 7.61 | 5.04 | 53.3 | 6.98 | 6.98 | U | 2.1 |

QUALIFIERS

U: Metal analyzed for but not detected.
B: Metal concentration is less than the CRDL but greater than the IDL.
D: Metal analyzed at a dilution factor of 100.
D*: Metal analyzed at a dilution factor of 5.

NOTES

--- : Not applicable.
--- : Not established.
--- : Value exceeds Eastern USA Background Level.
* : New York State Background.
** : Background for metropolitan or suburban areas.

**TABLE 4-4
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
TEST AREAS
TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS**

| SAMPLE LOCATION | TEST AREA "C" | | TEST AREA "B" | | TEST AREA "A"/PUMP ROOM | |
|------------------------------|---------------|-------------|---------------|---------|-------------------------|---------|
| | TA-C | TA-C | TA-B | TA-B | TARP | TARP |
| SAMPLE IDENTIFICATION | 0-2 FT | 2-4 FT | 0-2 FT | 2-4 FT | 0-2 FT | 2-4 FT |
| SAMPLE DEPTH | 9/16/96 | 9/16/96 | 9/16/96 | 9/16/96 | 9/13/96 | 9/13/96 |
| DATE OF COLLECTION | 1 | 1 | 1 | 1 | 1 | 1 |
| DILUTION FACTOR | 79 | 97 | 98 | 98 | 93 | 91 |
| PERCENT SOLIDS | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| UNITS | | | | | | |
| Total Petroleum Hydrocarbons | 650 | 36 | 22 | 27 | 150 | 130 |
| Kerosene | | | | | | |
| TPH (as Kerosene) | U | U | U | U | U | U |
| #2 Fuel Oil | | | | | | |
| TPH (as #2 Fuel Oil) | U | U | U | U | U | U |
| Varsol | | | | | | |
| TPH (as Varsol) | U | U | U | U | U | U |
| TPH (as Motor Oil) | detected | ** detected | U | U | detected | ** |

QUALIFIERS

U: Compound analyzed for but not detected.
 **: Pattern for motor oil is present.

TABLE 4-4 (continued)
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
TEST AREAS

TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

| SAMPLE LOCATION | ENVIRONMENTAL TEST LABORATORY HANGAR AREA | | | | | | FB-4 |
|------------------------------|---|-------------|---------|---------|---------|---------|------|
| | ETL1 | ETL1 | ETL2 | ETL2 | ETL2 | ETL2 | |
| SAMPLE IDENTIFICATION | 0-2 FT | 2-4 FT | 0-2 FT | 0-2 FT | 2-4 FT | -- | |
| SAMPLE DEPTH | 9/16/96 | 9/16/96 | 9/16/96 | 9/16/96 | 9/16/96 | 9/16/96 | |
| DATE OF COLLECTION | 1 | 1 | 1 | 1 | 1 | 1 | |
| DILUTION FACTOR | 97 | 98 | 94 | 94 | 98 | -- | |
| PERCENT SOLIDS | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (ug/L) | |
| UNITS | | | | | | | |
| Total Petroleum Hydrocarbons | 60 | 52 | U | U | 22 | U | |
| Kerosene | | | | | | | |
| TPH (as Kerosene) | U | U | N/A | N/A | U | N/A | |
| #2 Fuel Oil | | | | | | | |
| TPH (as #2 Fuel Oil) | U | U | N/A | N/A | U | N/A | |
| Varsol | | | | | | | |
| TPH (as Varsol) | U | U | N/A | N/A | U | N/A | |
| TPH (as Motor Oil) | detected ** | detected ** | | | U | N/A | |

QUALIFIERS

U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.
 **: Pattern for motor oil is present.

NOTES

-- : Not applicable.

- Copper detected at a concentration (68.5 mg/kg) exceeding the Eastern USA background level (50/mg/kg)
- Mercury detected at a concentration (272 mg/kg) exceeding the Eastern USA background level (0.2 mg/kg)
- Nickel detected at a concentration (118 mg/kg) exceeding the Eastern USA background level (25 mg/kg)
- Zinc detected at a concentration (284 mg/kg) exceeding the Eastern USA background level (50 mg/kg)
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 650 mg/kg
 - TPHCs were classified as motor oil

Test Area "C" - Sample TA-C (2'-4')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria
- Priority Pollutant Metals
 - Mercury detected at a concentration (5.31 mg/kg) exceeding the Eastern USA background level (0.2 mg/kg)
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 36 mg/kg
 - TPHCs were classified as motor oil

Test Area "B" -Samples TA-B (0'-2') and TA-B (2'-4')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected
- Priority Pollutant Metals
 - Not detected above Eastern USA background levels
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 22 mg/kg in TA-B (0'-2')
 - TPHCs detected at a concentration of 27 mg/kg in TA-B (2'-4')
 - Fuel-related constituents not detected above method detection limits

Test Area "A" and Pump Room - Samples TARP (0'-2') and TARP (2'-4')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 150 mg/kg in TARP (0'-2')
 - TPHCs detected at a concentration of 130 mg/kg in TARP (2'-4')
 - TPHCs were classified as motor oil in TARP (0'-2')

Environmental Test Laboratory Hangar Area - Samples ETL1 (0'-2'), ETL1 (2'-4'), ETL2 (0'-2') and ETL2 (2'-4')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected
- Priority Pollutant Metals
 - Not detected above Eastern USA background levels in ETL1 (0'-2'), ETL1 (2'-4') and ETL2 (2'-4')
 - Zinc detected at a concentration (53.3 mg/kg) exceeding the Eastern USA background level (50 mg/kg) in ETL2 (0'-2')
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 60 mg/kg in ETL1 (0'-2')
 - TPHCs detected at a concentration of 52 mg/kg in ETL1 (2'-4')
 - TPHCs not detected above method detection limit in ETL2 (0'-2')
 - TPHCs detected at a concentration of 22 mg/kg in ETL2 (2'-4')
 - TPHCs were classified as motor oil in ETL1 (0'-2') and ETL1 (2'-4')

4.1.2 Area of Former 5,000-Gallon UST

As stated in Section 3, soil samples were collected in the area of the former 5,000-gallon UST. The analytical results of the soil samples are presented on Tables 4-5 and 4-6. The results are summarized as follows:

Area of Former 5,000-Gallon UST - Samples UST 1 (9'-11'), UST1 (11'-13'), UST2 (9'-11') and UST2 (11'-13')

- STARS Table 2 VOCs and SVOCs
 - Not detected
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 220 mg/kg in UST1 (9'-11')
 - TPHCs detected at a concentration of 250 mg/kg in UST1 (11'-13')
 - TPHCs detected at a concentration of 39 mg/kg in UST2 (9'-11')
 - TPHCs detected at a concentration of 41 mg/kg in UST 2 (11'-13')
 - TPHCs were classified as motor oil in UST1 (9'-11'), UST1 (11'-13') and UST 2 (9'-11')

4.1.3 Oil/Water Separator

As stated in Section 3, soil samples were collected at the oil/water separator located to the south of the building. The analytical results of the soil samples are presented on Tables 4-7 through 4-10. The results are summarized as follows:

Oil/Water Separator - Samples OWS1 (16'-18') and OWS1 (18'-20')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria in OWS1 (16'-18')
 - Not detected in OWS1 (18'-20')

TABLE 4-5
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
AREA OF FORMER 5,000-GALLON UST
STARS TABLE 2 COMPOUNDS

| SAMPLE IDENTIFICATION | UST1 9-11 FT 9/11/96 1/1 | UST1 11-13 FT 9/11/96 1/1 | UST2 9-11 FT 9/11/96 1/1 | UST2 11-13 FT 9/11/96 1/1 | FB-1 9/11/96 1/1 | CONTRACT REQUIRED DETECTION LIMIT (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|------------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------|---|--|
| VOLATILE ORGANICS | | | | | | | |
| Benzene | U | U | U | U | U | 10 | 60 |
| Ethylbenzene | U | U | U | U | U | 10 | 5500 |
| Toluene | U | U | U | U | U | 10 | 1500 |
| o-Xylene | U | U | U | U | U | 10 | 1200* |
| m&p Xylene | U | U | U | U | U | 10 | 1200* |
| Isopropylbenzene | U | U | U | U | U | 10 | --- |
| n-Propylbenzene | U | U | U | U | U | 10 | --- |
| p-Isopropyltoluene | U | U | U | U | U | 10 | --- |
| 1,2,4-Trimethylbenzene | U | U | U | U | U | 10 | --- |
| 1,3,5-Trimethylbenzene | U | U | U | U | U | 10 | --- |
| n-Butylbenzene | U | U | U | U | U | 10 | --- |
| sec-Butylbenzene | U | U | U | U | U | 10 | --- |
| tert-Butylbenzene | U | U | U | U | U | 10 | --- |
| SEMIVOLATILE ORGANICS | | | | | | | |
| Acenaphthene | U | U | U | U | U | 330 | 50000 |
| Fluorene | U | U | U | U | U | 330 | 50000 |
| Phenanthrene | U | U | U | U | U | 330 | 50000 |
| Anthracene | U | U | U | U | U | 330 | 50000 |
| Fluoranthene | U | U | U | U | U | 330 | 50000 |
| Pyrene | U | U | U | U | U | 330 | 50000 |
| Benzo(a)anthracene | U | U | U | U | U | 330 | 224 or MDL |
| Chrysene | U | U | U | U | U | 330 | 400 |
| Benzo(b)fluoranthene | U | U | U | U | U | 330 | 1100 |
| Benzo(k)fluoranthene | U | U | U | U | U | 330 | 1100 |
| Benzo(a)pyrene | U | U | U | U | U | 330 | 61 or MDL |
| Indeno(1,2,3-cd)pyrene | U | U | U | U | U | 330 | 3200 |
| Dibenzo(a,h)anthracene | U | U | U | U | U | 330 | 14 or MDL |
| Benzo(g,h,i)perylene | U | U | U | U | U | 330 | 50000 |
| Naphthalene | U | U | U | U | U | 10 | 13000 |

NOTES
 -- : Not applicable.
 --- : Not established.
 * : Value applies to total xylenes.
 MDL: Method Detection Limit
 (voc/svoc): Volatiles/Semivolatiles.

QUALIFIERS
 U: Compound analyzed for but not detected.

TABLE 4-6
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 AREA OF FORMER 5,000-GALLON UST
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

| SAMPLE IDENTIFICATION | UST1 | UST1 | UST2 | UST2 | UST2 | FB-1 |
|------------------------------|----------|----------|----------|----------|---------|---------|
| SAMPLE DEPTH | 9-11 FT | 11-13 FT | 9-11 FT | 11-13 FT | -- | -- |
| DATE OF COLLECTION | 9/11/96 | 9/11/96 | 9/11/96 | 9/11/96 | 9/11/96 | 9/11/96 |
| PERCENT SOLIDS | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| DILUTION FACTOR | 95 | 96 | 94 | 94 | -- | -- |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/L) | (ug/L) |
| Total Petroleum Hydrocarbons | 220 | 250 | 39 | 41 | U | U |
| Kerosene | | | | | | |
| TPH (as Kerosene) | U | U | U | U | N/A | N/A |
| #2 Fuel Oil | | | | | | |
| TPH (as #2 Fuel Oil) | U | U | U | U | N/A | N/A |
| Varsol | | | | | | |
| TPH (as Varsol) | U | U | U | U | N/A | N/A |
| TPH (as Motor Oil) | detected | detected | detected | ** | U | N/A |

QUALIFIERS

U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.
 **: Pattern for motor oil is present.

NOTES

-- : Not applicable.

TABLE 4-7
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE I SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 OIL/WATER SEPARATOR
 VOLATILE ORGANIC COMPOUNDS

| SAMPLE IDENTIFICATION | OWS1 16-18 FT 9/16/96 | OWS1 18-20 FT 9/16/96 | FB-4 9/16/96 | CONTRACT REQUIRED DETECTION LIMITS | NYSDEC TAGM 4046 APPENDIX A CRITERIA |
|----------------------------|-----------------------------|-----------------------------|-----------------|---|---|
| UNITS | (ug/kg) | (ug/kg) | (ug/L) | (ug/kg) | (ug/kg) |
| Chloromethane | U | U | U | 10 | --- |
| Bromomethane | U | U | U | 10 | --- |
| Vinyl Chloride | U | U | U | 10 | 200 |
| Chloroethane | U | U | U | 10 | 1900 |
| Methylene Chloride | U | U | U | 10 | 100 |
| Acetone | U | U | U | 10 | 200 |
| Carbon Disulfide | U | U | U | 10 | 2700 |
| 1,1-Dichloroethane | U | U | U | 10 | 400 |
| 1,1-Dichloroethane | U | U | U | 10 | 200 |
| 1,2-Dichloroethane (total) | U | U | U | 10 | 300 |
| Chloroform | U | U | U | 10 | 300 |
| 1,2-Dichloroethane | U | U | U | 10 | 100 |
| 2-Butanone | U | U | U | 10 | 300 |
| 1,1,1-Trichloroethane | U | U | U | 10 | 800 |
| Carbon Tetrachloride | U | U | U | 10 | 600 |
| Bromodichloromethane | U | U | U | 10 | --- |
| 1,2-Dichloropropane | U | U | U | 10 | --- |
| cis-1,3-Dichloropropene | U | U | U | 10 | --- |
| Trichloroethene | U | U | U | 10 | 700 |
| Dibromochloromethane | U | U | U | 10 | --- |
| 1,1,2-Trichloroethane | U | U | U | 10 | --- |
| Benzene | U | U | U | 10 | 60 |
| trans-1,3-Dichloropropene | U | U | U | 10 | --- |
| Bromoform | U | U | U | 10 | --- |
| 4-Methyl-2-pentanone | U | U | U | 10 | 1000 |
| 2-Hexanone | U | U | U | 10 | --- |
| Tetrachloroethene | U | U | U | 10 | 1400 |
| 1,1,2,2-Tetrachloroethane | U | U | U | 10 | 600 |
| Toluene | U | U | U | 10 | 1500 |
| Chlorobenzene | U | U | U | 10 | 1700 |
| Ethylbenzene | U | U | U | 10 | 5500 |
| Styrene | U | U | U | 10 | --- |
| Xylene (total) | U | U | U | 10 | 1200 |
| TOTAL VOCs | 0 | 0 | 0 | | 10000 |

QUALIFIERS
 U: Compound analyzed for but not detected.
 NOTES
 -- : Not applicable.
 --- : Not established.

TABLE 4-8
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 OIL/WATER SEPARATOR
 SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE IDENTIFICATION | OWS1 16-18 FT 9/16/96 | OWS1 18-20 FT 9/16/96 | FB-4 9/16/96 | CONTRACT DETECTION LIMITS (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|------------------------------|-----------------------------|-----------------------------|-----------------|--|--|
| SAMPLE DEPTH | 16-18 FT | 18-20 FT | FB-4 | | |
| DATE OF COLLECTION | 9/16/96 | 9/16/96 | 9/16/96 | | |
| DILUTION FACTOR | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 96 | 87 | | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/L) | (ug/kg) | (ug/kg) |
| Phenol | U | U | U | 330 | 30 or MDL |
| bis(2-Chloroethyl)ether | U | U | U | 330 | --- |
| 2-Chlorophenol | U | U | U | 330 | 800 |
| 1,3-Dichlorobenzene | U | U | U | 330 | 1600 |
| 1,4-Dichlorobenzene | U | U | U | 330 | 8500 |
| 1,2-Dichlorobenzene | U | U | U | 330 | 7900 |
| 2-Methylphenol | U | U | U | 330 | 100 or MDL |
| 2,2'-Oxybis(1-chloropropane) | U | U | U | 330 | --- |
| 4-Methylphenol | U | U | U | 330 | 900 |
| N-Nitroso-di-n-propylamine | U | U | U | 330 | --- |
| Hexachloroethane | U | U | U | 330 | --- |
| Nitrobenzene | U | U | U | 330 | 200 or MDL |
| Isophorone | U | U | U | 330 | 4400 |
| 2-Nitrophenol | U | U | U | 330 | 330 or MDL |
| 2,4-Dimethylphenol | U | U | U | 330 | --- |
| bis(2-Chloroethoxy)methane | U | U | U | 330 | --- |
| 2,4-Dichlorophenol | U | U | U | 330 | 400 |
| 1,2,4-Trichlorobenzene | U | U | U | 330 | 3400 |
| Naphthalene | U | U | U | 330 | 13000 |
| 4-Chloroaniline | U | U | U | 330 | 220 or MDL |
| Hexachlorobutadiene | U | U | U | 330 | --- |
| 4-Chloro-3-methylphenol | U | U | U | 330 | 240 or MDL |
| 2-Methylnaphthalene | U | U | U | 330 | 36400 |
| Hexachlorocyclopentadiene | U | U | U | 330 | --- |
| 2,4,6-Trichlorophenol | U | U | U | 330 | --- |
| 2,4,5-Trichlorophenol | U | U | U | 800 | 100 |
| 2-Chloronaphthalene | U | U | U | 330 | --- |
| 2-Nitroaniline | U | U | U | 800 | 430 or MDL |
| Dimethylphthalate | U | U | U | 330 | 2000 |
| Acenaphthylene | U | U | U | 330 | 41000 |
| 2,6-Dinitrotoluene | U | U | U | 330 | 1000 |
| 3-Nitroaniline | U | U | U | 800 | 500 or MDL |
| Acenaphthene | U | U | U | 330 | 50000 |
| 2,4-Dinitrophenol | U | U | U | 800 | 200 or MDL |
| 4-Nitrophenol | U | U | U | 800 | 100 or MDL |

TABLE 4-8 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 OIL/WATER SEPARATOR
 SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE IDENTIFICATION | OWS1 16-18 FT 9/16/96 | OWS1 18-20 FT 9/16/96 | FB-4 9/16/96 | CONTRACT REQUIRED DETECTION LIMITS | NYSDEC TAGM 4046 APPENDIX A CRITERIA |
|----------------------------|-----------------------------|-----------------------------|-----------------|---|---|
| SAMPLE DEPTH | 16-18 FT | 18-20 FT | FB-4 | (ug/kg) | (ug/kg) |
| DATE OF COLLECTION | 9/16/96 | 9/16/96 | 9/16/96 | | |
| DILUTION FACTOR | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 96 | 87 | | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/L) | (ug/kg) | (ug/kg) |
| Dibenzofuran | U | U | U | 330 | 6200 |
| 2,4-Dinitrotoluene | U | U | U | 330 | --- |
| Diethylphthalate | U | U | U | 330 | 7100 |
| 4-Chlorophenyl-phenylether | U | U | U | 330 | --- |
| Fluorene | U | U | U | 330 | 50000 |
| 4-Nitroaniline | U | U | U | 800 | --- |
| 4,6-Dinitro-2-methylphenol | U | U | U | 800 | --- |
| N-Nitrosodiphenylamine | U | U | U | 330 | --- |
| 4-Bromophenyl-phenylether | U | U | U | 330 | --- |
| Hexachlorobenzene | U | U | U | 330 | 410 |
| Pentachlorophenol | U | U | U | 800 | 1000 or MDL |
| Phenanthrene | U | U | U | 330 | 50000 |
| Anthracene | U | U | U | 330 | 50000 |
| Carbazole | U | U | U | 330 | --- |
| Di-n-butylphthalate | U | U | U | 330 | 8100 |
| Fluoranthene | U | U | U | 330 | 50000 |
| Pyrene | U | U | U | 330 | 50000 |
| Butylbenzylphthalate | U | U | U | 330 | 50000 |
| 3,3'-Dichlorobenzidine | U | U | U | 330 | 224 or MDL |
| Benzo(a)anthracene | U | U | U | 330 | 400 |
| Chrysene | U | U | U | 330 | 50000 |
| bis(2-Ethylhexyl)phthalate | 99 | U | U | 330 | 50000 |
| Di-n-octylphthalate | U | U | U | 330 | 1100 |
| Benzo(b)fluoranthene | U | U | U | 330 | 1100 |
| Benzo(k)fluoranthene | U | U | U | 330 | 61 or MDL |
| Benzo(a)pyrene | U | U | U | 330 | 3200 |
| Indeno(1,2,3-cd)pyrene | U | U | U | 330 | 14 or MDL |
| Dibenzo(a,h)anthracene | U | U | U | 330 | 50000 |
| Benzo(g,h,i)perylene | U | U | U | 330 | 50000 |
| TOTAL SVOCs | 99 | 0 | 0 | | 500000 |

NOTES
 -- : Not applicable.
 ---- : Not established.
 MDL: Method Detection Limit.

QUALIFIERS
 U: Compound analyzed for but not detected.
 J: Compound found at a concentration below the detection limit.

**TABLE 4-9
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
OIL/WATER SEPARATOR
PRIORITY POLLUTANT METALS**

| SAMPLE IDENTIFICATION | | OWS1 | OWS1 | FB-4 | INSTRUMENT DETECTION LIMITS | | EASTERN USA BACKGROUND LEVELS |
|-----------------------|--------------------|----------|----------|---------|-----------------------------------|-----|--|
| SAMPLE DEPTH | DATE OF COLLECTION | 16-18 FT | 18-20 FT | 9/16/96 | (ug/L) | | (mg/kg) |
| DILUTION FACTOR | PERCENT SOLIDS | 1 | 1 | 1 | | | |
| UNITS | | (mg/kg) | (mg/kg) | (ug/L) | | | |
| Antimony | | | | | | | |
| Arsenic | | 0.832 | 0.744 | 2.72 | B | 3.9 | --- |
| Beryllium | | | | | U | 1.6 | 3 - 12* |
| Cadmium | | 0.0865 | 0.0392 | | U | 0.1 | 0 - 1.75 |
| Chromium | | 4.31 | 4.78 | 18.0 | U | 0.4 | 0.1 - 1 |
| Copper | | 3.55 | 3.29 | | B | 0.6 | 1.5 - 40* |
| Lead | | 1.36 | 1.33 | 2.00 | U | 1.3 | 1 - 50 |
| Mercury | | | | | U | 1.5 | 200 - 500** |
| Nickel | | 1.57 | 1.46 | 1.73 | U | 0.2 | 0.001 - 0.2 |
| Selenium | | | | | B | 1.2 | 0.5 - 25 |
| Silver | | | | | U | 3.2 | 0.1 - 3.9 |
| Thallium | | | | | U | 0.7 | ---- |
| Zinc | | 4.36 | 4.56 | | U | 2.1 | ---- |
| | | | | | U | 2.1 | 9 - 50 |

QUALIFIERS

U: Metal analyzed for but not detected.
B: Metal concentration is less than the CRDL but greater than the IDL.

NOTES

-- : Not applicable.
---- : Not established.
* : New York State Background.
** : Background for metropolitan or suburban areas.

**TABLE 4-10
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
OIL/WATER SEPARATOR
TOTAL PETROLEUM HYDROCARBONS
AND FUEL-RELATED CONSTITUENTS**

| SAMPLE IDENTIFICATION | OWS1 16-18 FT 9/16/96 | OWS1 18-20 FT 9/16/96 | FB-4 -- 9/16/96 |
|------------------------------|-----------------------------|-----------------------------|-----------------------|
| SAMPLE DEPTH | | | |
| DATE OF COLLECTION | 1 | 1 | 1 |
| DILUTION FACTOR | 96 (ug/kg) | 87 (ug/kg) | -- (ug/L) |
| PERCENT SOLIDS | | | |
| UNITS | | | |
| Total Petroleum Hydrocarbons | 42 | 33 | U |
| Kerosene | | | |
| TPH (as Kerosene) | U | U | N/A |
| #2 Fuel Oil | | | |
| TPH (as #2 Fuel Oil) | U | U | N/A |
| Varsol | | | |
| TPH (as Varsol) | U | U | N/A |
| TPH (as Motor Oil) | U | U | N/A |

QUALIFIERS

U: Compound analyzed for but not detected.
N/A: Compound not analyzed for.

NOTES

-- : Not applicable.

- Priority Pollutant Metals
 - Not detected above Eastern USA background levels
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 42 mg/kg in OWS1 (16'-18')
 - TPHCs detected at a concentration of 33 mg/kg in OWS1 (18'-20')
 - Fuel-Related Constituents were not detected above method detection limits

4.1.4 Area of Former Recharge Basin

As stated in Section 3, soil samples were collected from the area of the former recharge basin. The analytical results of the soil samples are presented in Tables 4-11 through 4-15. The results are summarized as follows:

Area of Former Recharge Basin - Samples RB-1 (25'-27'), RB-1 (45'-47') and RB-1 (65'-67')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected in RB-1 (25'-27') and RB-1 (45'-47')
 - Not detected above NYSDEC TAGM criteria in RB-1 (65'-67')
- Priority Pollutant Metals
 - Not detected above Eastern USA background levels
- Total Petroleum Hydrocarbons/Fuel Related Constituents
 - TPHCs detected at a concentration of 42 mg/kg in RB-1 (25'-27')
 - TPHCs not detected above method detection limits in RB-1 (45'-47')
 - TPHCs detected at a concentration of 34 mg/kg in RB-1 (65'-67')
 - TPHCs were classified as motor oil in RB-1 (25'-27')
- Polychlorinated Biphenyls (PCBs)
 - Aroclor 1242 was detected at a concentration (280 ug/kg) below the NYSDEC TAGM 4046 level (10,000 ug/kg) in RB-1 (25'-27')
 - PCBs not detected in RB-1 (45'-47') and RB-1 (65'-67')

TABLE 4-11
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
AREA OF FORMER RECHARGE BASIN
VOLATILE ORGANIC COMPOUNDS

| SAMPLE IDENTIFICATION | RB-1 25-27 FT 9/13/96 | RB-1 45-47 FT 9/13/96 | RB-1 65-67 FT 9/13/96 | FB-3 9/13/96 | CONTRACT REQUIRED DETECTION LIMITS (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|--|--|
| DILUTION FACTOR | 1 | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 97 | 96 | 81 | | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/L) | (ug/kg) | (ug/kg) |
| Chloromethane | U | U | U | U | 10 | --- |
| Bromomethane | U | U | U | U | 10 | --- |
| Vinyl Chloride | U | U | U | U | 10 | 200 |
| Chloroethane | U | U | U | U | 10 | 1900 |
| Methylene Chloride | U | U | U | U | 10 | 100 |
| Acetone | U | U | U | U | 10 | 200 |
| Carbon Disulfide | U | U | U | U | 10 | 2700 |
| 1,1-Dichloroethene | U | U | U | U | 10 | 400 |
| 1,1-Dichloroethane | U | U | U | U | 10 | 200 |
| 1,2-Dichloroethene (total) | U | U | U | U | 10 | 300 |
| Chloroform | U | U | U | U | 10 | 300 |
| 1,2-Dichloroethane | U | U | U | U | 10 | 100 |
| 2-Butanone | U | U | U | U | 10 | 300 |
| 1,1,1-Trichloroethane | U | U | U | U | 10 | 800 |
| Carbon Tetrachloride | U | U | U | U | 10 | 600 |
| Bromodichloromethane | U | U | U | U | 10 | --- |
| 1,2-Dichloropropane | U | U | U | U | 10 | --- |
| cis-1,3-Dichloropropene | U | U | U | U | 10 | --- |
| Trichloroethene | U | U | U | U | 10 | 700 |
| Dibromochloromethane | U | U | U | U | 10 | --- |
| 1,1,2-Trichloroethane | U | U | U | U | 10 | --- |
| Benzene | U | U | U | U | 10 | 60 |
| trans-1,3-Dichloropropene | U | U | U | U | 10 | --- |
| Bromoform | U | U | U | U | 10 | --- |
| 4-Methyl-2-pentanone | U | U | U | U | 10 | 1000 |
| 2-Hexanone | U | U | U | U | 10 | --- |
| Tetrachloroethene | U | U | U | U | 10 | 1400 |
| 1,1,2,2-Tetrachloroethane | U | U | U | U | 10 | 600 |
| Toluene | U | U | U | U | 10 | 1500 |
| Chlorobenzene | U | U | U | U | 10 | 1700 |
| Ethylbenzene | U | U | U | U | 10 | 5500 |
| Styrene | U | U | U | U | 10 | --- |
| Xylene (total) | U | U | U | U | 10 | 1200 |
| TOTAL VOCs | 0 | 0 | 0 | 0 | | 10000 |

NOTES
 -- : Not applicable.
 --- : Not established.

QUALIFIERS
 U: Compound analyzed for but not detected.

TABLE 4-12
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 AREA OF FORMER RECHARGE BASIN
 SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE IDENTIFICATION | RB-1 25-27 FT 9/13/96 | RB-1 45-47 FT 9/13/96 | RB-1 65-67 FT 9/13/96 | FB-3 9/13/96 | CONTRACT REQUIRED DETECTION LIMITS (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|--|--|
| SAMPLE DEPTH | | | | | | |
| DATE OF COLLECTION | 1 | 1 | 1 | 1 | | |
| DILUTION FACTOR | 97 | 96 | 81 | | | |
| PERCENT SOLIDS | | | | | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/L) | (ug/kg) | (ug/kg) |
| Phenol | U | U | U | U | 330 | 30 or MDL |
| bis(2-Chloroethyl)ether | U | U | U | U | 330 | --- |
| 2-Chlorophenol | U | U | U | U | 330 | 800 |
| 1,3-Dichlorobenzene | U | U | U | U | 330 | 1600 |
| 1,4-Dichlorobenzene | U | U | U | U | 330 | 8500 |
| 1,2-Dichlorobenzene | U | U | U | U | 330 | 7900 |
| 2-Methylphenol | U | U | U | U | 330 | 100 or MDL |
| 2,2'-Oxybis(1-chloropropane) | U | U | U | U | 330 | --- |
| 4-Methylphenol | U | U | U | U | 330 | 900 |
| N-Nitroso-di-n-propylamine | U | U | U | U | 330 | --- |
| Hexachloroethane | U | U | U | U | 330 | --- |
| Nitrobenzene | U | U | U | U | 330 | 200 or MDL |
| Isophorone | U | U | U | U | 330 | 4400 |
| 2-Nitrophenol | U | U | U | U | 330 | 330 or MDL |
| 2,4-Dimethylphenol | U | U | U | U | 330 | --- |
| bis(2-Chloroethoxy)methane | U | U | U | U | 330 | --- |
| 2,4-Dichlorophenol | U | U | U | U | 330 | 400 |
| 1,2,4-Trichlorobenzene | U | U | U | U | 330 | 3400 |
| Naphthalene | U | U | U | U | 330 | 13000 |
| 4-Chloroaniline | U | U | U | U | 330 | 220 or MDL |
| Hexachlorobutadiene | U | U | U | U | 330 | --- |
| 4-Chloro-3-methylphenol | U | U | U | U | 330 | 240 or MDL |
| 2-Methylnaphthalene | U | U | U | U | 330 | 36400 |
| Hexachlorocyclopentadiene | U | U | U | U | 330 | --- |
| 2,4,6-Trichlorophenol | U | U | U | U | 330 | --- |
| 2,4,5-Trichlorophenol | U | U | U | U | 330 | 100 |
| 2-Chloronaphthalene | U | U | U | U | 800 | --- |
| 2-Nitroaniline | U | U | U | U | 330 | 430 or MDL |
| Dimethylphthalate | U | U | U | U | 800 | 2000 |
| Acenaphthylene | U | U | U | U | 330 | 41000 |
| 2,6-Dinitrotoluene | U | U | U | U | 330 | 1000 |
| 3-Nitroaniline | U | U | U | U | 330 | 500 or MDL |
| Acenaphthene | U | U | U | U | 800 | 50000 |
| 2,4-Dinitrophenol | U | U | U | U | 330 | 200 or MDL |
| 4-Nitrophenol | U | U | U | U | 800 | 100 or MDL |

TABLE 4-12 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 AREA OF FORMER RECHARGE BASIN
 SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE IDENTIFICATION | RB-1 | | RB-1 | | RB-1 | | FB-3 | CONTRACT REQUIRED DETECTION LIMITS | NYSDEC TAGM 4046 APPENDIX A CRITERIA |
|----------------------------|----------|---------|----------|---------|----------|---------|--------|---|---|
| | 25-27 FT | 9/13/96 | 45-47 FT | 9/13/96 | 65-67 FT | 9/13/96 | | | |
| SAMPLE DEPTH | (ug/kg) | | (ug/kg) | | (ug/kg) | | (ug/L) | (ug/kg) | (ug/kg) |
| DATE OF COLLECTION | 1 | 97 | 1 | 96 | 1 | 81 | 1 | | |
| DILUTION FACTOR | 1 | | 1 | | 1 | | | | |
| PERCENT SOLIDS | 97 | | 96 | | 81 | | | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/L) | (ug/kg) | (ug/kg) |
| Dibenzofuran | U | | U | | U | | U | 330 | 6200 |
| 2,4-Dinitrotoluene | U | | U | | U | | U | 330 | |
| Diethylphthalate | U | | U | | U | | U | 330 | 7100 |
| 4-Chlorophenyl-phenylether | U | | U | | U | | U | 330 | |
| Fluorene | U | | U | | U | | U | 330 | 50000 |
| 4-Nitroaniline | U | | U | | U | | U | 800 | |
| 4,6-Dinitro-2-methylphenol | U | | U | | U | | U | 800 | |
| N-Nitrosodiphenylamine | U | | U | | U | | U | 330 | |
| 4-Bromophenyl-phenylether | U | | U | | U | | U | 330 | |
| Hexachlorobenzene | U | | U | | U | | U | 330 | 410 |
| Pentachlorophenol | U | | U | | U | | U | 800 | 1000 or MDL |
| Phenanthrene | U | | U | | U | | U | 330 | 50000 |
| Anthracene | U | | U | | U | | U | 330 | 50000 |
| Carbazole | U | | U | | U | | U | 330 | |
| Di-n-butylphthalate | U | | U | | U | | U | 330 | 8100 |
| Fluoranthene | U | | U | | U | | U | 330 | 50000 |
| Pyrene | U | | U | | U | | U | 330 | 50000 |
| Butylbenzylphthalate | U | | U | | U | | U | 330 | 50000 |
| 3,3'-Dichlorobenzidine | U | | U | | U | | U | 330 | 50000 |
| Benzo(a)anthracene | U | | U | | U | | U | 330 | 224 or MDL |
| Chrysene | U | | U | | U | | U | 330 | 400 |
| bis(2-Ethylhexyl)phthalate | U | | U | | U | | U | 330 | 50000 |
| Di-n-octylphthalate | U | | U | | U | | U | 330 | 50000 |
| Benzo(b)fluoranthene | U | | U | | U | | U | 330 | 1100 |
| Benzo(k)fluoranthene | U | | U | | U | | U | 330 | 1100 |
| Benzo(a)pyrene | U | | U | | U | | U | 330 | 61 or MDL |
| Indeno(1,2,3-cd)pyrene | U | | U | | U | | U | 330 | 3200 |
| Dibenzo(a,h)anthracene | U | | U | | U | | U | 330 | 14 or MDL |
| Benzo(g,h,i)perylene | U | | U | | U | | U | 330 | 50000 |
| TOTAL SVOCs | 0 | | 0 | | 0 | | 0 | | 500000 |

NOTES
 -- : Not applicable.
 --- : Not established.
 MDL: Method Detection Limit.

QUALIFIERS
 U: Compound analyzed for but not detected.
 J: Compound found at a concentration below the detection limit.

**TABLE 4-13
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
AREA OF FORMER RECHARGE BASIN
PRIORITY POLLUTANT METALS**

| SAMPLE IDENTIFICATION | RB-1 | RB-1 | RB-1 | RB-1 | FB-3 | INSTRUMENT DETECTION LIMITS | EASTERN USA BACKGROUND LEVELS |
|-----------------------|----------|----------|----------|---------|------|-----------------------------------|--|
| SAMPLE DEPTH | 25-27 FT | 45-47 FT | 65-67 FT | -- | | (ug/L) | (mg/kg) |
| DATE OF COLLECTION | 9/13/96 | 9/13/96 | 9/13/96 | 9/13/96 | | | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | | | |
| PERCENT SOLIDS | 96.6 | 96.2 | 81.3 | -- | | | |
| UNITS | (mg/kg) | (mg/kg) | (mg/kg) | (ug/L) | | (ug/L) | |
| Antimony | U | 0.367 B | U | U | U | 3.9 | --- |
| Arsenic | 1.70 | 4.24 | 2.63 | U | U | 1.6 | 3 - 12* |
| Beryllium | 0.0497 B | 0.139 B | 0.0541 B | B | U | 0.1 | 0 - 1.75 |
| Cadmium | 0.0549 B | 0.0551 B | 0.0418 B | B | U | 0.4 | 0.1 - 1 |
| Chromium | 9.11 | 12.8 | 4.41 | U | U | 0.6 | 1.5 - 40* |
| Copper | 7.57 | 2.27 | 4.53 | 6.80 | B | 1.3 | 1 - 50 |
| Lead | 0.957 | 1.78 | 3.97 | U | U | 1.5 | 200 - 500** |
| Mercury | U | U | U | U | U | 0.2 | 0.001 - 0.2 |
| Nickel | 1.00 B | 1.31 | 0.765 B | 1.79 | B | 1.2 | 0.5 - 25 |
| Selenium | U | 0.931 | U | U | U | 3.2 | 0.1 - 3.9 |
| Silver | U | 0.0676 B | U | U | U | 0.7 | --- |
| Thallium | U | U | U | U | U | 2.1 | --- |
| Zinc | 8.39 | 9.24 | 7.03 | U | U | 2.1 | 9 - 50 |

QUALIFIERS

U: Metal analyzed for but not detected.
B: Metal concentration is less than the CRDL but greater than the IDL.

NOTES

-- : Not applicable.
--- : Not established.
* : New York State Background.
** : Background for metropolitan or suburban areas.

TABLE 4-14
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS

AREA OF FORMER RECHARGE BASIN
TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

| SAMPLE IDENTIFICATION | RB-1 25-27 FT | RB-1 45-47 FT | RB-1 65-67 FT | FB-3 -- |
|------------------------------|------------------|------------------|------------------|------------|
| SAMPLE DEPTH | 9/13/96 | 9/13/96 | 9/13/96 | 9/13/96 |
| DATE OF COLLECTION | 1 | 1 | 1 | 1 |
| DILUTION FACTOR | 97 | 96 | 81 | -- |
| PERCENT SOLIDS | (mg/kg) | (mg/kg) | (mg/kg) | (ug/L) |
| UNITS | | | | |
| Total Petroleum Hydrocarbons | 42 | U | 34 | U |
| Kerosene | | | | |
| TPH (as Kerosene) | | N/A | | N/A |
| #2 Fuel Oil | | | | |
| TPH (as #2 Fuel Oil) | | N/A | | N/A |
| Varsol | | | | |
| TPH (as Varsol) | | N/A | | N/A |
| TPH (as Motor Oil) | detected | ** | | N/A |

QUALIFIERS

U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.
 **: Pattern for motor oil is present.

NOTES

-- : Not applicable.

TABLE 4-15
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
AREA OF FORMER RECHARGE BASIN
POLYCHLORINATED BIPHENYLS

| SAMPLE IDENTIFICATION | RB-1 25-27 FT 9/13/96 1 | RB-1 45-47 FT 9/13/96 1 | RB-1 65-67 FT 9/13/96 1 | FB-3 -- 9/13/96 1 | CONTRACT REQUIRED DETECTION LIMIT (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|-----------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------|---|--|
| PERCENT SOLIDS | 97 (ug/kg) | 96 (ug/kg) | 81 (ug/kg) | -- (ug/L) | | |
| Aroclor-1016 | U | U | U | U | 33.00 | --- |
| Aroclor-1221 | U | U | U | U | 67.00 | --- |
| Aroclor-1232 | U | U | U | U | 33.00 | --- |
| Aroclor-1242 | 280 | U | U | U | 33.00 | --- |
| Aroclor-1248 | U | U | U | U | 33.00 | --- |
| Aroclor-1254 | U | U | U | U | 33.00 | --- |
| Aroclor-1260 | U | U | U | U | 33.00 | --- |
| TOTAL PCBs | 280 | 0 | 0 | 0 | | 10000* |

QUALIFIERS

U: Compound analyzed for but not detected.

NOTES

- : Not applicable.
- : Not established.
- * : Criteria is for total PCBs in subsurface soil.

4.1.5 Drum/Chemical Storage Areas

As stated in Section 3, soil samples were collected from several “drum/chemical storage areas” including the Fenced Chemical Storage Area, Vapor Cycle Building Drum Storage Area, Waste Chemical Shed and the Former Drum Storage Area between the Old Compressor Room and Test Area “A”. The analytical results of the soil samples are presented in Tables 4-16 through 4-19. The results are summarized as follows:

Fenced Chemical Storage Area - Samples FCSA (0'-2') and FCSA (2'-4')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria in FCSA (0'-2')
 - Not detected in FCSA (2'-4')
- Priority Pollutant Metals
 - Zinc detected at a concentration (383 mg/kg) exceeding the Eastern USA background level (50 mg/kg) in FCSA (0'-2')
 - Not detected above Eastern USA background levels in FCSA (2'-4')
- Total Petroleum Hydrocarbons
 - Not detected above method detection limit

Vapor Cycle Building Drum Storage Area - Samples V CBD (0'-2') and V CBD (2'-4')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria
- Priority Pollutant Metals
 - Not detected above Eastern USA background levels
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 270 mg/kg in V CBD (0'-2')
 - TPHCs not detected above method detection limit in V CBD (2'-4')
 - TPHCs were classified as motor oil in V CBD (0'-2')

TABLE 4-16
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
DRUM/CHEMICAL STORAGE AREAS
VOLATILE ORGANIC COMPOUNDS

| SAMPLE IDENTIFICATION | FENCED CHEM. STORAGE | | VAPOR CYCLE BLDG. | | WASTE CHEMICAL SHED | | WCS2 2-4 FT 9/16/96 | CONTRACT REQUIRED DETECTION LIMITS (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--|--|
| | FCSA 0-2 FT 9/13/96 | FCSA 2-4 FT 9/13/96 | VCBD 0-2 FT 9/13/96 | VCBD 2-4 FT 9/13/96 | WCS1 0-2 FT 9/16/96 | WCS1 2-4 FT 9/16/96 | | | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 84 | 94 | 86 | 90 | 91 | 88 | 98 | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | | (ug/kg) |
| Chloromethane | U | U | U | U | U | U | U | 10 | --- |
| Bromomethane | U | U | U | U | U | U | U | 10 | --- |
| Vinyl Chloride | U | U | U | U | U | U | U | 10 | 200 |
| Chloroethane | U | U | U | U | U | U | U | 10 | 1900 |
| Methylene Chloride | U | U | U | U | U | U | U | 10 | 100 |
| Acetone | U | U | U | U | U | U | U | 10 | 200 |
| Carbon Disulfide | U | U | U | U | U | U | U | 10 | 2700 |
| 1,1-Dichloroethene | U | U | U | U | U | U | U | 10 | 400 |
| 1,1-Dichloroethane | U | U | U | U | U | U | U | 10 | 200 |
| 1,2-Dichloroethene (total) | U | U | U | U | U | U | U | 10 | 300 |
| Chloroform | U | U | U | U | U | U | U | 10 | 300 |
| 1,2-Dichloroethane | U | U | U | U | U | U | U | 10 | 100 |
| 2-Butanone | U | U | U | U | U | U | U | 10 | 300 |
| 1,1,1-Trichloroethane | U | U | U | U | U | U | U | 10 | 800 |
| Carbon Tetrachloride | U | U | U | U | U | U | U | 10 | 600 |
| Bromodichloromethane | U | U | U | U | U | U | U | 10 | --- |
| 1,2-Dichloropropane | U | U | U | U | U | U | U | 10 | --- |
| cis-1,3-Dichloropropene | U | U | U | U | U | U | U | 10 | --- |
| Trichloroethene | U | U | U | U | U | U | U | 10 | 700 |
| Dibromochloromethane | U | U | U | U | U | U | U | 10 | --- |
| 1,1,2-Trichloroethane | U | U | U | U | U | U | U | 10 | --- |
| Benzene | U | U | U | U | U | U | U | 10 | 60 |
| trans-1,3-Dichloropropene | U | U | U | U | U | U | U | 10 | --- |
| Bromoform | U | U | U | U | U | U | U | 10 | --- |
| 4-Methyl-2-pentanone | U | U | U | U | U | U | U | 10 | 1000 |
| 2-Hexanone | U | U | U | U | U | U | U | 10 | --- |
| 1,1,2,2-Tetrachloroethane | U | U | U | U | U | U | U | 10 | 1400 |
| Toluene | U | U | U | U | U | U | U | 10 | 600 |
| Chlorobenzene | U | U | U | U | U | U | U | 10 | 1500 |
| Ethylbenzene | U | U | U | U | U | U | U | 10 | 1700 |
| Styrene | U | U | U | U | U | U | U | 10 | 5500 |
| Xylene (total) | U | U | U | U | U | U | U | 10 | 1200 |
| TOTAL VOCs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10000 |

NOTES
--- : Not established.

QUALIFIERS
U: Compound analyzed for but not detected.

TABLE 4-16 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 DRUM/CHEMICAL STORAGE AREAS
 VOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION | FORMER DRUM STORAGE AREA BETWEEN COMP. ROOM AND TEST AREA "A" | | | | FB-3 | CONTRACT REQUIRED DETECTION LIMITS (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|----------------------------|---|---------------------------------|---------------------------------|---------------------------------|------|--|--|
| | DSAC1 0-2 FT 9/13/96 1 | DSAC2 0-2 FT 9/13/96 1 | DSAC3 0-2 FT 9/13/96 1 | DSAC3 2-4 FT 9/13/96 1 | | | |
| UNITS | 93 (ug/kg) | 87 (ug/kg) | 95 (ug/kg) | 75 (ug/kg) | 1 | | |
| PERCENT SOLIDS | 93 | 87 | 95 | 75 | 1 | | |
| Chloromethane | U | U | U | U | U | 10 | --- |
| Bromomethane | U | U | U | U | U | 10 | --- |
| Vinyl Chloride | U | U | U | U | U | 10 | 200 |
| Chloroethane | U | U | U | U | U | 10 | 1900 |
| Methylene Chloride | U | U | U | U | U | 10 | 100 |
| Acetone | U | U | U | U | U | 10 | 200 |
| Carbon Disulfide | U | U | U | U | U | 10 | 2700 |
| 1,1-Dichloroethene | U | U | U | U | U | 10 | 400 |
| 1,1-Dichloroethane | U | U | U | U | U | 10 | 200 |
| 1,2-Dichloroethene (total) | U | U | U | U | U | 10 | 300 |
| Chloroform | U | U | U | U | U | 10 | 300 |
| 1,2-Dichloroethane | U | U | U | U | U | 10 | 100 |
| 2-Butanone | U | U | U | U | U | 10 | 300 |
| 1,1,1-Trichloroethane | U | U | U | U | U | 10 | 800 |
| Carbon Tetrachloride | U | U | U | U | U | 10 | 600 |
| Bromodichloromethane | U | U | U | U | U | 10 | --- |
| 1,2-Dichloropropane | U | U | U | U | U | 10 | --- |
| cis-1,3-Dichloropropene | U | U | U | U | U | 10 | --- |
| Trichloroethene | U | U | U | U | U | 10 | 700 |
| Dibromochloromethane | U | U | U | U | U | 10 | --- |
| 1,1,2-Trichloroethane | U | U | U | U | U | 10 | --- |
| Benzene | U | U | U | U | U | 10 | 60 |
| trans-1,3-Dichloropropene | U | U | U | U | U | 10 | --- |
| Bromoform | U | U | U | U | U | 10 | --- |
| 4-Methyl-2-pentanone | U | U | U | U | U | 10 | 1000 |
| 2-Hexanone | U | U | U | U | U | 10 | --- |
| Tetrachloroethene | U | U | U | U | U | 10 | 1400 |
| 1,1,2,2-Tetrachloroethane | U | U | U | U | U | 10 | 600 |
| Toluene | U | U | U | U | U | 10 | 1500 |
| Chlorobenzene | U | U | U | U | U | 10 | 1700 |
| Ethylbenzene | U | U | U | U | U | 10 | 5500 |
| Styrene | U | U | U | U | U | 10 | --- |
| Xylene (total) | U | U | U | U | U | 10 | 1200 |
| TOTAL VOCs | 0 | 0 | 0 | 96 | 0 | | 10000 |

NOTES
 U: Compound analyzed for but not detected.
 J: Compound found at a concentration below the detection limit.

TABLE 4-17
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
DRUM/CHEMICAL STORAGE AREAS
SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION | FENCED CHEM. STORAGE | | VAPOR CYCLE BLDG. | | WASTE CHEMICAL SHED | | | CONTRACT REQUIRED DETECTION LIMITS | NYSDEC TAGM 4046 APPENDIX A CRITERIA |
|------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|------------------------------------|--------------------------------------|
| | FCSA 0-2 FT 9/13/96 | FCSA 2-4 FT 9/13/96 | VCBD 0-2 FT 9/13/96 | VCBD 2-4 FT 9/13/96 | WCS1 0-2 FT 9/16/96 | WCS2 0-2 FT 9/16/96 | WCS2 2-4 FT 9/16/96 | | |
| PERCENT SOLIDS | 84 | 94 | 86 | 90 | 91 | 88 | 98 | (ug/kg) | (ug/kg) |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | | |
| Phenol | U | U | U | U | U | U | U | 330 | 30 or MDL |
| bis(2-Chloroethyl)ether | U | U | U | U | U | U | U | 330 | --- |
| 2-Chlorophenol | U | U | U | U | U | U | U | 330 | 800 |
| 1,3-Dichlorobenzene | U | U | U | U | U | U | U | 330 | 1600 |
| 1,4-Dichlorobenzene | U | U | U | U | U | U | U | 330 | 8500 |
| 1,2-Dichlorobenzene | U | U | U | U | U | U | U | 330 | 7900 |
| 2-Methylphenol | U | U | U | U | U | U | U | 330 | 100 or MDL |
| 2,2'-Oxybis(1-chloropropane) | U | U | U | U | U | U | U | 330 | --- |
| 4-Methylphenol | U | U | U | U | U | U | U | 330 | 900 |
| N-Nitroso-di-n-propylamine | U | U | U | U | U | U | U | 330 | --- |
| Hexachloroethane | U | U | U | U | U | U | U | 330 | --- |
| Nitrobenzene | U | U | U | U | U | U | U | 330 | 200 or MDL |
| Isophorone | U | U | U | U | U | U | U | 330 | 4400 |
| 2-Nitrophenol | U | U | U | U | U | U | U | 330 | 330 or MDL |
| 2,4-Dimethylphenol | U | U | U | U | U | 48 | U | 330 | --- |
| bis(2-Chloroethoxy)methane | U | U | U | U | U | U | U | 330 | --- |
| 2,4-Dichlorophenol | U | U | U | U | U | U | U | 330 | --- |
| 1,2,4-Trichlorobenzene | U | U | U | U | U | U | U | 330 | 400 |
| Naphthalene | U | U | U | U | U | U | U | 330 | 3400 |
| 4-Chloroaniline | U | U | U | U | U | U | U | 330 | 13000 |
| Hexachlorobutadiene | U | U | U | U | U | U | U | 330 | 220 or MDL |
| 4-Chloro-3-methylphenol | U | U | U | U | U | U | U | 330 | --- |
| 2-Methylnaphthalene | U | U | U | U | U | U | U | 330 | 240 or MDL |
| Hexachlorocyclopentadiene | U | U | U | U | U | U | U | 330 | 36400 |
| 2,4,6-Trichlorophenol | U | U | U | U | U | U | U | 330 | --- |
| 2,4,5-Trichlorophenol | U | U | U | U | U | U | U | 330 | --- |
| 2-Chloronaphthalene | U | U | U | U | U | U | U | 800 | 100 |
| 2-Nitroaniline | U | U | U | U | U | U | U | 330 | --- |
| Dimethylphthalate | U | U | U | U | U | U | U | 800 | 430 or MDL |
| Acenaphthylene | U | U | U | U | U | U | U | 330 | 2000 |
| 2,6-Dinitrotoluene | U | U | U | U | U | U | U | 330 | 41000 |
| 3-Nitroaniline | U | U | U | U | U | U | U | 330 | 1000 |
| Acenaphthene | U | U | U | U | U | U | U | 800 | 500 or MDL |
| 2,4-Dinitrophenol | U | U | U | U | U | U | U | 330 | 50000 |
| 4-Nitrophenol | U | U | U | U | U | U | U | 800 | 200 or MDL |
| | U | U | U | U | U | U | U | 800 | 100 or MDL |

TABLE 4-17 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 DRUM/CHEMICAL STORAGE AREAS
 SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION SAMPLE IDENTIFICATION | FENCED CHEM. STORAGE | | VAPOR CYCLE BLDG | | WASTE CHEMICAL SHED | | WCS2 2-4 FT 9/16/96 | CONTRACT REQUIRED DETECTION LIMITS | NYSDEC TAGM 4046 APPENDIX A CRITERIA |
|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---|---|
| | FCSA 0-2 FT 9/13/96 | FCSA 2-4 FT 9/13/96 | VCBD 0-2 FT 9/13/96 | VCBD 2-4 FT 9/13/96 | WCS1 0-2 FT 9/16/96 | WCS1 2-4 FT 9/16/96 | | | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 84 | 94 | 86 | 90 | 91 | 91 | 88 | | (ug/kg) 6200 |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) |
| Dibenzofuran | U | U | U | U | U | U | U | U | 330 |
| 2,4-Dinitrotoluene | U | U | U | U | U | U | U | U | 330 |
| Diethylphthalate | U | U | U | U | U | U | U | U | 330 |
| 4-Chlorophenyl-phenylether | U | U | U | U | U | U | U | U | 330 |
| Fluorene | U | U | U | U | U | U | U | U | 330 |
| 4-Nitroaniline | U | U | U | U | U | U | U | U | 800 |
| 4,6-Dinitro-2-methylphenol | U | U | U | U | U | U | U | U | 800 |
| N-Nitrosodiphenylamine | U | U | U | U | U | U | U | U | 330 |
| 4-Bromophenyl-phenylether | U | U | U | U | U | U | U | U | 330 |
| Hexachlorobenzene | U | U | U | U | U | U | U | U | 330 |
| Pentachlorophenol | U | U | U | U | U | U | U | U | 800 |
| Phenanthrene | U | U | U | U | U | U | U | U | 330 |
| Anthracene | U | U | U | U | U | U | U | U | 330 |
| Carbazole | U | U | U | U | U | U | U | U | 330 |
| Di-n-butylphthalate | U | U | U | U | U | U | U | U | 330 |
| Fluoranthene | 52 | J | U | U | 98 | J | U | U | 50000 |
| Pyrene | 49 | J | U | U | 82 | J | U | U | 50000 |
| Butylbenzylphthalate | U | U | U | U | U | U | U | U | 50000 |
| 3,3'-Dichlorobenzidine | U | U | U | U | U | U | U | U | 50000 |
| Benzo(a)anthracene | 43 | J | U | U | 56 | J | U | U | 224 or MDL |
| Chrysene | U | U | U | U | 51 | J | U | U | 400 |
| bis(2-Ethylhexyl)phthalate | U | U | 120 | 44 | U | U | U | U | 50000 |
| Di-n-octylphthalate | U | U | U | U | U | U | U | U | 50000 |
| Benzo(b)fluoranthene | U | U | U | U | 55 | J | U | U | 1100 |
| Benzo(k)fluoranthene | 41 | J | U | U | 49 | J | U | U | 1100 |
| Benzo(a)pyrene | U | U | U | U | U | U | U | U | 61 or MDL |
| Indeno(1,2,3-cd)pyrene | U | U | U | U | U | U | U | U | 3200 |
| Dibenzo(a,h)anthracene | U | U | U | U | U | U | U | U | 14 or MDL |
| Benzo(g,h,i)perylene | U | U | U | U | U | U | U | U | 50000 |
| TOTAL SVOCs | 185 | 0 | 120 | 44 | 446 | 0 | 48 | 0 | 50000 |

NOTES
 U: Compound analyzed for but not detected.
 J: Compound found at a concentration below the detection limit.
 --- : Not established.
 MDL: Method Detection Limit.

TABLE 4-17 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 DRUM/CHEMICAL STORAGE AREAS
 SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION | FORMER DRUM STORAGE AREA BETWEEN COMP. ROOM AND TEST AREA "A" | | | | | | FB-3 | CONTRACT REQUIRED DETECTION LIMITS (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|-----------------------------|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------------|------|--|--|
| | DSAC1 0-2 FT 9/13/96 1 | DSAC2 0-2 FT 9/13/96 1 | DSAC2 2-4 FT 9/13/96 1 | DSAC3 0-2 FT 9/13/96 1 | DSAC3 2-4 FT 9/13/96 1 | DSAC3 75 9/13/96 1 | | | |
| Phenol | 93 | 87 | 94 | 95 | 75 | U | 330 | 30 or MDL | |
| bis(2-Chloroethyl)ether | U | U | U | U | U | U | 330 | --- | |
| 2-Chlorophenol | U | U | U | U | U | U | 330 | 800 | |
| 1,3-Dichlorobenzene | U | U | U | U | U | U | 330 | 1600 | |
| 1,4-Dichlorobenzene | U | U | U | U | U | U | 330 | 8500 | |
| 1,2-Dichlorobenzene | U | U | U | U | U | U | 330 | 7900 | |
| 2-Methylphenol | U | U | U | U | U | U | 330 | 100 or MDL | |
| 2,2-Oxybis(1-chloropropane) | U | U | U | U | U | U | 330 | --- | |
| 4-Methylphenol | U | U | U | U | U | U | 330 | 900 | |
| N-Nitroso-di-n-propylamine | U | U | U | U | U | U | 330 | --- | |
| Hexachloroethane | U | U | U | U | U | U | 330 | --- | |
| Nitrobenzene | U | U | U | U | U | U | 330 | 200 or MDL | |
| Isophorone | U | U | U | U | U | U | 330 | 4400 | |
| 2-Nitrophenol | U | U | U | U | U | U | 330 | 330 or MDL | |
| 2,4-Dimethylphenol | U | U | U | U | U | U | 330 | --- | |
| bis(2-Chloroethoxy)methane | U | U | U | U | U | U | 330 | --- | |
| 2,4-Dichlorophenol | U | U | U | U | U | U | 330 | 400 | |
| 1,2,4-Trichlorobenzene | U | U | U | U | U | U | 330 | 3400 | |
| Naphthalene | U | U | U | U | U | U | 330 | 13000 | |
| 4-Chloroaniline | U | U | U | U | U | U | 330 | 220 or MDL | |
| Hexachlorobutadiene | U | U | U | U | U | U | 330 | --- | |
| 4-Chloro-3-methylphenol | U | U | U | U | U | U | 330 | 240 or MDL | |
| 2-Methylnaphthalene | U | U | U | U | U | U | 330 | 36400 | |
| Hexachlorocyclopentadiene | U | U | U | U | U | U | 330 | --- | |
| 2,4,6-Trichlorophenol | U | U | U | U | U | U | 330 | 100 | |
| 2,4,5-Trichlorophenol | U | U | U | U | U | U | 330 | --- | |
| 2-Chloronaphthalene | U | U | U | U | U | U | 800 | --- | |
| 2-Nitroaniline | U | U | U | U | U | U | 330 | 430 or MDL | |
| Dimethylphthalate | U | U | U | U | U | U | 800 | 2000 | |
| Acenaphthylene | U | U | U | U | U | U | 330 | 41000 | |
| 2,6-Dinitrotoluene | U | U | U | U | U | U | 330 | 1000 | |
| 3-Nitroaniline | U | U | U | U | U | U | 800 | 500 or MDL | |
| Acenaphthene | U | U | U | U | U | U | 330 | 50000 | |
| 2,4-Dinitrophenol | 37 | U | U | U | U | U | 800 | 200 or MDL | |
| 4-Nitrophenol | U | U | U | U | U | U | 800 | 100 or MDL | |

TABLE 4-17 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 DRUM/CHEMICAL STORAGE AREAS
 SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION | FORMER DRUM STORAGE AREA BETWEEN COMP. ROOM AND TEST AREA "A" | | | | | | FB-3 | CONTRACT REQUIRED DETECTION LIMITS | NYSDEC TAGM 4046 APPENDIX A CRITERIA |
|----------------------------|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------|---|---|
| | DSAC1 0-2 FT 9/13/96 | DSAC2 0-2 FT 9/13/96 | DSAC2 2-4 FT 9/13/96 | DSAC3 0-2 FT 9/13/96 | DSAC3 2-4 FT 9/13/96 | DSAC3 2-4 FT 9/13/96 | | | |
| SAMPLE DEPTH | 0-2 FT | 0-2 FT | 2-4 FT | 0-2 FT | 0-2 FT | 2-4 FT | | (ug/kg) | (ug/kg) |
| DATE OF COLLECTION | 9/13/96 | 9/13/96 | 9/13/96 | 9/13/96 | 9/13/96 | 9/13/96 | 9/13/96 | | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 93 | 87 | 94 | 95 | 75 | | | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/L) | (ug/kg) | (ug/kg) |
| Dibenzofuran | U | U | U | U | U | U | U | 330 | 6200 |
| 2,4-Dinitrotoluene | U | U | U | U | U | U | U | 330 | --- |
| Diethylphthalate | U | U | U | U | U | U | U | 330 | 7100 |
| 4-Chlorophenyl-phenylether | U | U | U | U | U | U | U | 330 | --- |
| Fluorene | U | U | U | U | U | U | U | 330 | 50000 |
| 4-Nitroaniline | U | U | U | U | U | U | U | 800 | --- |
| 4,6-Dinitro-2-methylphenol | U | U | U | U | U | U | U | 800 | --- |
| N-Nitrosodiphenylamine | U | U | U | U | U | U | U | 330 | --- |
| 4-Bromophenyl-phenylether | U | U | U | U | U | U | U | 330 | --- |
| Hexachlorobenzene | U | U | U | U | U | U | U | 330 | 410 |
| Pentachlorophenol | U | U | U | U | U | U | U | 800 | 1000 or MDL |
| Phenanthrene | 660 | U | U | U | U | U | U | 330 | 50000 |
| Anthracene | 100 | U | U | U | U | U | U | 330 | 50000 |
| Carbazole | 41 | U | U | U | U | U | U | 330 | --- |
| Di-n-butylphthalate | U | U | U | U | U | U | U | 330 | 8100 |
| Fluoranthene | 1200 | U | U | U | U | U | U | 330 | 50000 |
| Pyrene | 930 | U | U | U | U | U | U | 330 | 50000 |
| Butylbenzylphthalate | U | U | U | U | U | U | U | 330 | 50000 |
| 3,3'-Dichlorobenzidine | 460 | U | U | U | U | U | U | 330 | 224 or MDL |
| Benzo(a)anthracene | 510 | U | U | U | U | U | U | 330 | 400 |
| Chrysene | 77 | U | U | U | U | U | U | 330 | 50000 |
| bis(2-Ethylhexyl)phthalate | U | U | U | U | U | U | U | 330 | 50000 |
| Di-n-octylphthalate | U | U | U | U | U | U | U | 330 | 1100 |
| Benzo(b)fluoranthene | 640 | U | U | U | U | U | U | 330 | 1100 |
| Benzo(k)fluoranthene | 200 | U | U | U | U | U | U | 330 | 1100 |
| Benzo(a)pyrene | 480 | U | U | U | U | U | U | 330 | 61 or MDL |
| Indeno(1,2,3-cd)pyrene | 320 | U | U | U | U | U | U | 330 | 3200 |
| Dibenzo(a,h)anthracene | 380 | U | U | U | U | U | U | 330 | 14 or MDL |
| Benzo(g,h,i)perylene | U | U | U | U | U | U | U | 330 | 50000 |
| TOTAL SVOCs | 6025 | 0 | 0 | 0 | 751 | 0 | 0 | 500000 | |

NOTES

U: Compound analyzed for but not detected.
 J: Compound found at a concentration below the detection limit.

--- : Not applicable.
 --- : Not established.
 [shaded box] : Value exceeds NYSDEC TAGM 4046 Appendix A Criteria.

TABLE 4-18
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
DRUM/CHEMICAL STORAGE AREAS
PRIORITY POLLUTANT METALS

| SAMPLE LOCATION SAMPLE IDENTIFICATION | FENCED CHEM. STORAGE | | VAPOR CYCLE BLDG | | WASTE CHEMICAL SHED | | INSTRUMENT DETECTION LIMITS (ug/L) | EASTERN USA BACKGROUND LEVELS (mg/kg) |
|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---|---|
| | FCSA 0-2 FT 9/13/96 | FCSA 2-4 FT 9/13/96 | VCBD 0-2 FT 9/13/96 | VCBD 2-4 FT 9/13/96 | WCS1 0-2 FT 9/16/96 | WCS2 0-2 FT 9/16/96 | | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 84.2 | 94.5 | 86.0 | 90.5 | 91.0 | 88.5 | 97.6 | |
| UNITS | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | |
| Antimony | 0.363 B | U | U | U | U | U | U | 3.9 |
| Arsenic | 4.50 | 1.32 | 2.96 | 1.56 | 2.69 | 1.49 | 0.975 | 1.6 |
| Beryllium | 0.202 B | 0.123 B | 0.191 B | 0.150 B | 0.116 B | 0.0983 B | U | 0.1 |
| Cadmium | 0.628 | 0.0487 B | 0.215 B | 0.0387 B | U | 0.164 B | U | 0.4 |
| Chromium | 10.7 | 5.97 | 9.29 | 7.46 | 10.6 | 9.70 | 7.16 | 0.6 |
| Copper | 8.33 | 3.43 | 7.91 | 4.38 | 4.80 | 5.51 | 4.76 | 1.3 |
| Lead | 31.5 | 1.38 | 10.3 | 4.11 | 6.84 | 4.08 | 2.24 | 1.5 |
| Mercury | 0.169 | U | U | U | U | U | U | 0.2 |
| Nickel | 5.75 | 2.14 | 4.77 | 3.00 | 4.61 | 4.57 | 3.44 | 1.2 |
| Selenium | 0.950 | 0.348 B | 0.642 | 0.562 | U | U | U | 3.2 |
| Silver | 0.0689 B | U | U | 0.0873 B | U | 0.383 B | U | 0.7 |
| Thallium | U | U | U | U | U | U | U | 2.1 |
| Zinc | 337 | 7.63 | 46.6 | 13.2 | 14.2 | 24.5 | 9.28 | 2.1 |

QUALIFIERS

U: Metal analyzed for but not detected.

B: Metal concentration is less than the CRDL but greater than the IDL.

NOTES

---: Not established

█: Value exceeds Eastern USA Background Level.

*: New York State Background.

** : Background for metropolitan or suburban areas.

TABLE 4-18 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 DRUM/CHEMICAL STORAGE AREAS
 PRIORITY POLLUTANT METALS

| SAMPLE LOCATION | FORMER DRUM STORAGE AREA BETWEEN COMP. ROOM AND TEST AREA "A" | | | | | | | | | | INSTRUMENT DETECTION LIMITS (ug/L) | EASTERN USA BACKGROUND LEVELS (mg/kg) |
|-----------------|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------|-----------------|-----------------|-----------------|---|---|
| | DSAC1 0-2 FT 9/13/96 | DSAC1 2-4 FT 9/13/96 | DSAC2 0-2 FT 9/13/96 | DSAC2 2-4 FT 9/13/96 | DSAC3 0-2 FT 9/13/96 | DSAC3 2-4 FT 9/13/96 | FB-3 9/13/96 | FB-3 9/13/96 | FB-3 9/13/96 | FB-3 9/13/96 | | |
| PERCENT SOLIDS | 93.1 | 97.0 | 86.9 | 94.5 | 95.2 | 74.8 | | | | | | |
| UNITS | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (mg/kg) |
| Antimony | 0.141 B | 0.235 B | U | U | 0.122 B | B | U | U | U | U | 3.9 | --- |
| Arsenic | 2.24 | 7.40 | 2.87 | 1.28 | 1.51 | 3.32 | U | U | U | U | 1.6 | 3 - 12* |
| Beryllium | 0.153 B | 0.0887 B | 0.273 B | 0.115 B | 0.214 B | 0.313 B | B | B | B | B | 0.1 | 0 - 1.75 |
| Cadmium | 0.530 | 0.114 B | 0.350 B | 0.0275 B | 0.235 B | 0.123 B | B | B | B | B | 0.4 | 0.1 - 1 |
| Chromium | 11.0 | 7.05 | 14.9 | 7.09 | 6.22 | 11.5 | U | U | U | U | 0.6 | 1.5 - 40* |
| Copper | 10.9 | 7.19 | 7.29 | 3.70 | 4.65 | 8.21 | U | U | U | U | 1.3 | 1 - 50 |
| Lead | 7.01 | 2.82 | 8.04 | 2.16 | 4.20 | 11.8 | U | U | U | U | 1.5 | 200 - 500** |
| Mercury | 0.166 | U | U | U | U | U | U | U | U | U | 0.2 | 0.001 - 0.2 |
| Nickel | 4.03 | 1.79 | 7.30 | 3.26 | 2.57 | 6.05 | B | B | B | B | 1.2 | 0.5 - 25 |
| Selenium | 0.710 | 0.754 | 1.01 | 0.361 B | 0.491 B | 0.746 | B | B | B | B | 3.2 | 0.1 - 3.9 |
| Silver | 0.0408 B | 0.0773 B | U | U | U | U | U | U | U | U | 0.7 | --- |
| Thallium | U | U | U | U | U | U | U | U | U | U | 2.1 | --- |
| Zinc | 10.7 | 10.7 | 210 | 10.7 | 12.8 | 28.4 | U | U | U | U | 2.1 | 9 - 50 |

QUALIFIERS

U: Metal analyzed for but not detected.

B: Metal concentration is less than the CRDL but greater than the IDL.

NOTES

-- : Not applicable.

--- : Not established.

█ : Value exceeds Eastern USA Background Level.

* : New York State Background.

** : Background for metropolitan or suburban areas.

TABLE 4-19
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
DRUM/CHEMICAL STORAGE AREAS
TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

| SAMPLE LOCATION | FENCED CHEM. STORAGE | | VAPOR CYCLE BLDG. | | WASTE CHEMICAL SHED | | | |
|------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | FCSA 0-2 FT 9/13/96 | FCSA 2-4 FT 9/13/96 | VCBD 0-2 FT 9/13/96 | VCBD 2-4 FT 9/13/96 | WCS1 0-2 FT 9/16/96 | WCS1 2-4 FT 9/16/96 | WCS2 0-2 FT 9/16/96 | WCS2 2-4 FT 9/16/96 |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | 1 | 1* | 1 |
| PERCENT SOLIDS | 84 | 94 | 86 | 90 | 91 | 91 | 88 | 98 |
| UNITS | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| Total Petroleum Hydrocarbons | U | U | 270 | U | 28 | U | 1600 | 70 |
| Kerosene | N/A | N/A | U | N/A | U | N/A | U | U |
| TPH (as Kerosene) | N/A | N/A | U | N/A | U | N/A | U | U |
| #2 Fuel Oil | N/A | N/A | U | N/A | U | N/A | U | U |
| TPH (as #2 Fuel Oil) | N/A | N/A | U | N/A | U | N/A | U | U |
| Varsol | N/A | N/A | U | N/A | U | N/A | U | U |
| TPH (as Varsol) | N/A | N/A | U | N/A | U | N/A | U | U |
| TPH (as Motor Oil) | N/A | N/A | detected ** | N/A | detected ** | N/A | detected ** | detected ** |

QUALIFIERS

U: Compound analyzed for but not detected.

N/A: Compound not analyzed for.

*: Fuel-related constituents analysis was performed at a 1:5 dilution.

**: Pattern for motor oil is present.

TABLE 4-19 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 DRUM/CHEMICAL STORAGE AREAS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

| SAMPLE LOCATION | FORMER DRUM STORAGE AREA BETWEEN COMP. ROOM AND TEST AREA "A" | | | | | | FB-3 |
|------------------------------|---|----------|----------|---------|---------|---------|---------|
| | DSAC1 | DSAC1 | DSAC2 | DSAC2 | DSAC3 | DSAC3 | |
| SAMPLE IDENTIFICATION | 0-2 FT | 2-4 FT | 0-2 FT | 2-4 FT | 0-2 FT | 2-4 FT | -- |
| SAMPLE DEPTH | 9/13/96 | 9/13/96 | 9/13/96 | 9/13/96 | 9/13/96 | 9/13/96 | 9/13/96 |
| DATE OF COLLECTION | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| DILUTION FACTOR | 93 | 97 | 87 | 94 | 95 | 75 | -- |
| PERCENT SOLIDS | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (ug/L) |
| UNITS | 460 | 180 | 88 | 38 | 40 | 32 | U |
| Total Petroleum Hydrocarbons | | | | | | | U |
| Kerosene | | | | | | | N/A |
| TPH (as Kerosene) | | U | U | U | U | U | N/A |
| #2 Fuel Oil | | U | U | U | U | U | N/A |
| TPH (as #2 Fuel Oil) | | U | U | U | U | U | N/A |
| Varsol | | U | U | U | U | U | N/A |
| TPH (as Varsol) | | U | U | U | U | U | N/A |
| TPH (as Motor Oil) | detected | detected | detected | ** | U | U | N/A |

QUALIFIERS
 U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.
 **: Pattern for motor oil is present.

NOTES
 -- : Not applicable.

Waste Chemical Shed - Samples WCS1 (0'-2') and WCS1 (2'-4')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria in WCS1 (0'-2')
 - Not detected in WCS1 (2'-4')
- Priority Pollutant Metals
 - Not detected above Eastern USA background levels
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 28 mg/kg in WCS1 (0'-2')
 - TPHCs not detected above method detection limit in WCS1 (2'-4')
 - Fuel-related Constituents not detected above method detection limits

Waste Chemical Shed - Samples WCS2 (0'-2') and WCS2 (2'-4')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria in WCS2 (0'-2')
 - Not detected in WCS2 (2'-4')
- Priority Pollutant Metals
 - Not detected above Eastern USA background levels
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 1,600 mg/kg in WCS2 (0'-2')
 - TPHCs detected at a concentration of 70 mg/kg in WCS2 (2'-4')
 - TPHCs were classified as motor oil in WCS2 (0'-2') and WCS2 (2'-4')

Former Drum Storage Area Between Old Compressor Room and Test Area "A" - Sample DSAC1 (0'-2')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Benzo(a)anthracene detected at a concentration (450 ug/kg) exceeding the NYSDEC TAGM criterion (224 ug/kg)
 - Chrysene detected at a concentration (510 ug/kg) exceeding the NYSDEC TAGM criterion (400 ug/kg)

- Benzo(a)pyrene detected at a concentration (480 ug/kg) exceeding the NYSDEC TAGM criterion (61 ug/kg)
- Priority Pollutant Metals
 - Zinc detected at a concentration (158 mg/kg) exceeding the Eastern USA background level (50 mg/kg)
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 460 mg/kg
 - TPHCs were classified as motor oil

Former Drum Storage Area Between Old Compressor Room and Test Area "A" - Sample DSAC1 (2'-4')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria
- Priority Pollutant Metals
 - Not detected above Eastern USA background levels
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 180 mg/kg
 - TPHCs were classified as motor oil

Former Drum Storage Area Between Old Compressor Room and Test Area "A" - Sample DSAC2 (0'-2') and DSAC2 (2'-4')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected
- Priority Pollutant Metals
 - Zinc detected at a concentration (210 mg/kg) exceeding the Eastern USA background level (50 mg/kg) in DSAC2 (0'-2')
 - Not detected above Eastern USA background levels in DSAC2 (2'-4')

- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 88 mg/kg at DSAC2 (0'-2')
 - TPHCs detected at a concentration of 38 mg/kg at DSAC2 (2'-4')
 - TPHCs were classified as motor oil in DSAC2 (0'-2')

Former Drum Storage Area Between Old Compressor Room and Test Area "A" - Sample DSAC3 (0'-2') and DSAC3 (2'-4')

- Volatile Organic Compounds
 - Not detected in DSAC3 (0'-2')
 - Not detected above NYSDEC TAGM criteria in DSAC3 (2'-4')
- Semivolatile Organic Compounds
 - Not detected in DSAC3 (0'-2')
 - Benzo(a)pyrene detected at an estimated concentration (66 ug/kg) exceeding the NYSDEC TAGM criterion (61 ug/kg) in DSAC3 (2'-4')
- Priority Pollutant Metals
 - Not detected above Eastern USA background levels
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 40 mg/kg in DSAC3 (0'-2')
 - TPHCs detected at a concentration of 32 mg/kg in DSAC3 (2'-4')
 - Fuel-related Constituents not detected above method detection limits

4.1.6 Former On-Site Sanitary Disposal Systems

As discussed in Section 3, soil samples were collected from the former on-site sanitary system south of Plant 31, and the former on-site sanitary disposal systems associated with a former free-standing building and with the former "relocatable" office module. The analytical results of the soil samples are presented on Tables 4-20 through 4-23. The results are summarized as follows:

Former On-Site Sanitary System South of Plant 31 - Samples SDSS1A (12'-14'), SDSS1B (16'-18') and SDSS1C (20'-22')

- Volatile Organic Compounds
 - Not detected

TABLE 4-20
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
FORMER ON-SITE SANITARY DISPOSAL SYSTEMS
VOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION | FORMER ON-SITE SANITARY SYSTEM SOUTH OF PLANT 31 | | | | | | | | | | CONTRACT REQUIRED DETECTION LIMITS (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|----------------------------|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|----|--|--|
| | SDSS1A 12-14 FT 9/11/96 | SDSS1B 16-18 FT 9/11/96 | SDSS1C 20-22 FT 9/11/96 | SDSS2A 12-14 FT 9/11/96 | SDSS2B 16-18 FT 9/11/96 | SDSS2C 20-22 FT 9/11/96 | SDSS3A 12-14 FT 9/11/96 | SDSS3B 16-18 FT 9/11/96 | SDSS3C 20-22 FT 9/11/96 | | | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 98 | 96 | 96 | 93 | 98 | 97 | 95 | 97 | 95 | 95 | | |
| Chloromethane | U | U | U | U | U | U | U | U | U | U | U | 10 |
| Bromomethane | U | U | U | U | U | U | U | U | U | U | U | 10 |
| Vinyl Chloride | U | U | U | U | U | U | U | U | U | U | U | 10 |
| Chloroethane | U | U | U | U | U | U | U | U | U | U | U | 10 |
| Methylene Chloride | U | U | U | U | U | U | U | U | U | U | U | 10 |
| Acetone | U | U | U | U | U | U | U | U | U | U | U | 10 |
| Carbon Disulfide | U | U | U | U | U | U | U | U | U | U | U | 10 |
| 1,1-Dichloroethene | U | U | U | U | U | U | U | U | U | U | U | 10 |
| 1,1-Dichloroethane | U | U | U | U | U | U | U | U | U | U | U | 10 |
| 1,2-Dichloroethene (total) | U | U | U | U | U | U | U | U | U | U | U | 10 |
| Chloroform | U | U | U | U | U | U | U | U | U | U | U | 10 |
| 1,2-Dichloroethane | U | U | U | U | U | U | U | U | U | U | U | 10 |
| 2-Butanone | U | U | U | U | U | U | U | U | U | U | U | 10 |
| 1,1,1-Trichloroethane | U | U | U | U | U | U | U | U | U | U | U | 10 |
| Carbon Tetrachloride | U | U | U | U | U | U | U | U | U | U | U | 10 |
| Bromodichloromethane | U | U | U | U | U | U | U | U | U | U | U | 10 |
| 1,2-Dichloropropane | U | U | U | U | U | U | U | U | U | U | U | 10 |
| cis-1,3-Dichloropropene | U | U | U | U | U | U | U | U | U | U | U | 10 |
| Trichloroethene | U | U | U | U | U | U | U | U | U | U | U | 10 |
| Dibromochloromethane | U | U | U | U | U | U | U | U | U | U | U | 10 |
| 1,1,2-Trichloroethane | U | U | U | U | U | U | U | U | U | U | U | 10 |
| Benzene | U | U | U | U | U | U | U | U | U | U | U | 10 |
| trans-1,3-Dichloropropene | U | U | U | U | U | U | U | U | U | U | U | 10 |
| Bromoform | U | U | U | U | U | U | U | U | U | U | U | 10 |
| 4-Methyl-2-pentanone | U | U | U | U | U | U | U | U | U | U | U | 1000 |
| 2-Hexanone | U | U | U | U | U | U | U | U | U | U | U | 1400 |
| Tetrachloroethene | U | U | U | U | U | U | U | U | U | U | U | 600 |
| 1,1,2,2-Tetrachloroethane | U | U | U | U | U | U | U | U | U | U | U | 1500 |
| Toluene | U | U | U | U | U | U | U | U | U | U | U | 1700 |
| Chlorobenzene | U | U | U | U | U | U | U | U | U | U | U | 5500 |
| Ethylbenzene | U | U | U | U | U | U | U | U | U | U | U | 1200 |
| Styrene | U | U | U | U | U | U | U | U | U | U | U | 1200 |
| Xylene (total) | U | U | U | U | U | U | U | U | U | U | U | 1200 |
| TOTAL VOCs | 0 | 0 | 0 | 12 | 0 | 3 | 6 | 5 | 6 | 6 | | 10000 |

NOTES
--- : Not established.

QUALIFIERS
U: Compound analyzed for but not detected.
J: Compound found at a concentration below the detection limit.

TABLE 4-20 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 FORMER ON-SITE SANITARY DISPOSAL SYSTEMS
 VOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION | FORMER FREE-STANDING BUILDING | | | OFFICE MODULE | | | FB-2 | CONTRACT REQUIRED DETECTION LIMITS (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|----------------------------|-------------------------------|----------|----------|---------------|----------|----------|---------|--|--|
| | SDFS | SDFS | SDFS | SDFS | SDFS | SDFS | | | |
| SAMPLE DEPTH | 12-14 FT | 16-18 FT | 20-22 FT | 12-14 FT | 16-18 FT | 20-22 FT | 9/12/96 | (ug/kg) | (ug/kg) |
| DATE OF COLLECTION | 9/12/96 | 9/12/96 | 9/12/96 | 9/12/96 | 9/12/96 | 9/12/96 | 9/12/96 | | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 95 | 96 | 98 | 82 | 84 | 97 | | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/L) | | |
| Chloromethane | U | U | U | U | U | U | U | 10 | --- |
| Bromomethane | U | U | U | U | U | U | U | 10 | --- |
| Vinyl Chloride | U | U | U | U | U | U | U | 10 | 200 |
| Chloroethane | U | U | U | U | U | U | U | 10 | 1900 |
| Methylene Chloride | U | U | U | U | U | U | U | 10 | 100 |
| Acetone | U | U | U | U | U | U | U | 10 | 200 |
| Carbon Disulfide | U | U | U | U | U | U | U | 10 | 2700 |
| 1,1-Dichloroethene | U | U | U | U | U | U | U | 10 | 400 |
| 1,1-Dichloroethane | U | U | U | U | U | U | U | 10 | 200 |
| 1,2-Dichloroethene (total) | U | U | U | U | U | U | U | 10 | 300 |
| Chloroform | U | U | U | U | U | U | U | 10 | 300 |
| 1,2-Dichloroethane | U | U | U | U | U | U | U | 10 | 100 |
| 2-Butanone | U | U | U | U | U | U | U | 10 | 300 |
| 1,1,1-Trichloroethane | U | U | U | U | U | U | U | 10 | 800 |
| Carbon Tetrachloride | U | U | U | U | U | U | U | 10 | 600 |
| Bromodichloromethane | U | U | U | U | U | U | U | 10 | --- |
| 1,2-Dichloropropane | U | U | U | U | U | U | U | 10 | --- |
| cis-1,3-Dichloropropene | U | U | U | U | U | U | U | 10 | --- |
| Trichloroethene | U | U | U | U | U | U | U | 10 | 700 |
| Dibromochloromethane | U | U | U | U | U | U | U | 10 | --- |
| 1,1,2-Trichloroethane | U | U | U | U | U | U | U | 10 | --- |
| Benzene | U | U | U | U | U | U | U | 10 | 60 |
| trans-1,3-Dichloropropene | U | U | U | U | U | U | U | 10 | --- |
| Bromoform | U | U | U | U | U | U | U | 10 | --- |
| 4-Methyl-2-pentanone | U | U | U | U | U | U | U | 10 | 1000 |
| 2-Hexanone | U | U | U | U | U | U | U | 10 | --- |
| Tetrachloroethene | U | U | U | U | U | U | U | 10 | 1400 |
| 1,1,2,2-Tetrachloroethane | U | U | U | U | U | U | U | 10 | 600 |
| Toluene | U | U | U | U | U | U | U | 10 | 1500 |
| Chlorobenzene | U | U | U | U | U | U | U | 10 | 1700 |
| Ethylbenzene | U | U | U | U | U | U | U | 10 | 5500 |
| Styrene | U | U | U | U | U | U | U | 10 | --- |
| Xylene (total) | U | U | U | U | U | U | U | 10 | 1200 |
| TOTAL VOCs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10000 |

NOTES
 -- : Not applicable.
 ---- : Not established.

QUALIFIERS:
 U: Compound analyzed for but not detected.

TABLE 4-21
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
FORMER ON-SITE SANITARY DISPOSAL SYSTEMS
SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION SAMPLE IDENTIFICATION | FORMER ON-SITE SANITARY SYSTEM SOUTH OF PLANT 31 | | | | | | | | | | CONTRACT REQUIRED DETECTION LIMITS (ug/kg) | NY/SDC TAGM 4046 APPENDIX A CRITERIA (ug/kg) | |
|--|--|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|----------|--|--|------------|
| | SDSS1A 12-14 FT 9/11/96 1 | SDSS1B 16-18 FT 9/11/96 1 | SDSS1C 20-22 FT 9/11/96 1 | SDSS2A 12-14 FT 9/11/96 1 | SDSS2B 16-18 FT 9/11/96 1 | SDSS2C 20-22 FT 9/11/96 1 | SDSS3A 12-14 FT 9/11/96 1 | SDSS3B 16-18 FT 9/11/96 1 | SDSS3C 20-22 FT 9/11/96 1 | 95 97 | | | |
| Phenol | U | U | U | U | U | U | U | U | U | U | U | 330 | 30 or MDL |
| bis(2-Chloroethyl)ether | U | U | U | U | U | U | U | U | U | U | U | 330 | 800 |
| 2-Chlorophenol | U | U | U | U | U | U | U | U | U | U | U | 330 | 1600 |
| 1,3-Dichlorobenzene | U | U | U | U | U | U | U | U | U | U | U | 330 | 8500 |
| 1,4-Dichlorobenzene | U | U | U | U | U | U | U | U | U | U | U | 330 | 7900 |
| 1,2-Dichlorobenzene | U | U | U | U | U | U | U | U | U | U | U | 330 | 100 or MDL |
| 2-Methylphenol | U | U | U | U | U | U | U | U | U | U | U | 330 | 900 |
| 2,2'-Oxybis(1-chloropropane) | U | U | U | U | U | U | U | U | U | U | U | 330 | --- |
| 4-Methylphenol | U | U | U | U | U | U | U | U | U | U | U | 330 | --- |
| N-Nitroso-di-n-propylamine | U | U | U | U | U | U | U | U | U | U | U | 330 | --- |
| Hexachloroethane | U | U | U | U | U | U | U | U | U | U | U | 330 | 200 or MDL |
| Nitrobenzene | U | U | U | U | U | U | U | U | U | U | U | 330 | 330 or MDL |
| Isophorone | U | U | U | U | U | U | U | U | U | U | U | 330 | --- |
| 2-Nitrophenol | U | U | U | U | U | U | U | U | U | U | U | 330 | --- |
| 2,4-Dimethylphenol | U | U | U | U | U | U | U | U | U | U | U | 330 | 400 |
| bis(2-Chloroethoxy)methane | U | U | U | U | U | U | U | U | U | U | U | 330 | 3400 |
| 2,4-Dichlorophenol | U | U | U | U | U | U | U | U | U | U | U | 330 | 13000 |
| 1,2,4-Trichlorobenzene | U | U | U | U | U | U | U | U | U | U | U | 330 | 220 or MDL |
| Naphthalene | U | U | U | U | U | U | U | U | U | U | U | 330 | --- |
| 4-Chloroaniline | U | U | U | U | U | U | U | U | U | U | U | 330 | --- |
| Hexachlorobutadiene | U | U | U | U | U | U | U | U | U | U | U | 330 | 240 or MDL |
| 4-Chloro-3-methylphenol | U | U | U | U | U | U | U | U | U | U | U | 330 | 36400 |
| 2-Methylnaphthalene | U | U | U | U | U | U | U | U | U | U | U | 330 | --- |
| Hexachlorocyclopentadiene | U | U | U | U | U | U | U | U | U | U | U | 330 | --- |
| 2,4,6-Trichlorophenol | U | U | U | U | U | U | U | U | U | U | U | 330 | 100 |
| 2,4,5-Trichlorophenol | U | U | U | U | U | U | U | U | U | U | U | 800 | --- |
| 2-Chloronaphthalene | U | U | U | U | U | U | U | U | U | U | U | 330 | 430 or MDL |
| 2-Nitroaniline | U | U | U | U | U | U | U | U | U | U | U | 330 | 2000 |
| Dimethylphthalate | U | U | U | U | U | U | U | U | U | U | U | 330 | 41000 |
| Acenaphthylene | U | U | U | U | U | U | U | U | U | U | U | 330 | 1000 |
| 2,6-Dinitrotoluene | U | U | U | U | U | U | U | U | U | U | U | 800 | 500 or MDL |
| 3-Nitroaniline | U | U | U | U | U | U | U | U | U | U | U | 330 | 50000 |
| Acenaphthene | U | U | U | U | U | U | U | U | U | U | U | 800 | 200 or MDL |
| 2,4-Dinitrophenol | U | U | U | U | U | U | U | U | U | U | U | 800 | 100 or MDL |
| 4-Nitrophenol | U | U | U | U | U | U | U | U | U | U | U | 800 | --- |

TABLE 4-21 (continued)
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
FORMER ON-SITE SANITARY DISPOSAL SYSTEMS
SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION SAMPLE IDENTIFICATION SAMPLE DEPTH DATE OF COLLECTION DILUTION FACTOR | FORMER ON-SITE SANITARY SYSTEM SOUTH OF PLANT 31 | | | | | | | | | | CONTRACT REQUIRED DETECTION LIMITS | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) | |
|---|--|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------|---|--|--------|
| | SDSS1A 12-14 FT 9/11/96 1 | SDSS1B 16-18 FT 9/11/96 1 | SDSS1C 20-22 FT 9/11/96 1 | SDSS2A 12-14 FT 9/11/96 1 | SDSS2B 16-18 FT 9/11/96 1 | SDSS2C 20-22 FT 9/11/96 1 | SDSS3A 12-14 FT 9/11/96 1 | SDSS3B 16-18 FT 9/11/96 1 | SDSS3C 20-22 FT 9/11/96 1 | TOTAL SVOCs | | | |
| PERCENT SOLIDS | 98 | 96 | 96 | 93 | 98 | 97 | 95 | 97 | 95 | 95 | | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | | (ug/kg) | |
| Dibenzofuran | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 2,4-Dinitrotoluene | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Diethylphthalate | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 4-Chlorophenyl-phenylether | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Fluorene | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 4-Nitroaniline | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 4,6-Dinitro-2-methylphenol | U | U | U | U | U | U | U | U | U | U | U | U | U |
| N-Nitrosodiphenylamine | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 4-Bromophenyl-phenylether | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Hexachlorobenzene | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Pentachlorophenol | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Phenanthrene | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Anthracene | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Carbazole | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Di-n-butylphthalate | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Fluoranthene | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Pyrene | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Butylbenzylphthalate | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 3,3'-Dichlorobenzidine | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Benzo(a)anthracene | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Chrysene | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bis(2-Ethylhexyl)phthalate | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Di-n-octylphthalate | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Benzo(b)fluoranthene | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Benzo(k)fluoranthene | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Benzo(a)pyrene | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Indeno(1,2,3-cd)pyrene | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Dibenzo(a,h)anthracene | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Benzo(g,h,i)perylene | U | U | U | U | U | U | U | U | U | U | U | U | U |
| TOTAL SVOCs | 0 | 0 | 35 | 0 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 500000 |

NOTES
--- : Not established.

QUALIFIERS
U: Compound analyzed for but not detected.
J: Compound found at a concentration below the detection limit.

TABLE 4-21 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 FORMER ON-SITE SANITARY DISPOSAL SYSTEMS
 SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION SAMPLE IDENTIFICATION | FORMER FREE-STANDING BUILDING | | | OFFICE MODULE | | | FB-2 -- 9/12/96 1 | CONTRACT REQUIRED DETECTION LIMITS (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------|--|--|
| | SDSF 12-14 FT 9/12/96 1 | SDSF 16-18 FT 9/12/96 1 | SDSF 20-22 FT 9/12/96 1 | SDSF 12-14 FT 9/12/96 1 | SDSF 16-18 FT 9/12/96 1 | SDSF 20-22 FT 9/12/96 1 | | | |
| PERCENT SOLIDS | 95 (ug/kg) | 96 (ug/kg) | 98 (ug/kg) | 82 (ug/kg) | 84 (ug/kg) | 97 (ug/kg) | -- | | |
| Phenol | U | U | U | U | U | U | U | 330 | 30 or MDL |
| bis(2-Chloroethyl)ether | U | U | U | U | U | U | U | 330 | --- |
| 2-Chlorophenol | U | U | U | U | U | U | U | 330 | 800 |
| 1,3-Dichlorobenzene | U | U | U | U | U | U | U | 330 | 1600 |
| 1,4-Dichlorobenzene | U | U | U | U | U | U | U | 330 | 8500 |
| 1,2-Dichlorobenzene | U | U | U | U | U | U | U | 330 | 7900 |
| 2-Methylphenol | U | U | U | U | U | U | U | 330 | 100 or MDL |
| 2,2'-Oxybis(1-chloropropane) | U | U | U | U | U | U | U | 330 | --- |
| 4-Methylphenol | U | U | U | U | U | U | U | 330 | 900 |
| N-Nitroso-di-n-propylamine | U | U | U | U | U | U | U | 330 | --- |
| Hexachloroethane | U | U | U | U | U | U | U | 330 | --- |
| Nitrobenzene | U | U | U | U | U | U | U | 330 | 200 or MDL |
| Isophorone | U | U | U | U | U | U | U | 330 | --- |
| 2-Nitrophenol | U | U | U | U | U | U | U | 330 | 4400 |
| 2,4-Dimethylphenol | U | U | U | U | U | U | U | 330 | 330 or MDL |
| bis(2-Chloroethoxy)methane | U | U | U | U | U | U | U | 330 | --- |
| 2,4-Dichlorophenol | U | U | U | U | U | U | U | 330 | 400 |
| 1,2,4-Trichlorobenzene | U | U | U | U | U | U | U | 330 | 3400 |
| Naphthalene | U | U | U | U | U | U | U | 330 | 13000 |
| 4-Chloroaniline | U | U | U | U | U | U | U | 330 | 220 or MDL |
| Hexachlorobutadiene | U | U | U | U | U | U | U | 330 | --- |
| 4-Chloro-3-methylphenol | U | U | U | U | U | U | U | 330 | 240 or MDL |
| 2-Methylnaphthalene | U | U | U | U | U | U | U | 330 | 36400 |
| Hexachlorocyclopentadiene | U | U | U | U | U | U | U | 330 | --- |
| 2,4,6-Trichlorophenol | U | U | U | U | U | U | U | 330 | --- |
| 2,4,5-Trichlorophenol | U | U | U | U | U | U | U | 800 | 100 |
| 2-Chloronaphthalene | U | U | U | U | U | U | U | 330 | --- |
| 2-Nitroaniline | U | U | U | U | U | U | U | 800 | 430 or MDL |
| Dimethylphthalate | U | U | U | U | U | U | U | 330 | 2000 |
| Acenaphthylene | U | U | U | U | U | U | U | 330 | 41000 |
| 2,6-Dinitrotoluene | U | U | U | U | U | U | U | 330 | 1000 |
| 3-Nitroaniline | U | U | U | U | U | U | U | 330 | 500 or MDL |
| Acenaphthene | U | U | U | U | U | U | U | 330 | 50000 |
| 2,4-Dinitrophenol | U | U | U | U | U | U | U | 800 | 200 or MDL |
| 4-Nitrophenol | U | U | U | U | U | U | U | 800 | 100 or MDL |

TABLE 4-21 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 FORMER ON-SITE SANITARY DISPOSAL SYSTEMS
 SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION | FORMER FREE-STANDING BUILDING | | | OFFICE MODULE | | | FB-1 9/11/96 (ug/L) | FB-2 9/12/96 (ug/L) | CONTRACT REQUIRED DETECTION LIMITS (ug/kg) | NYSDEC TAGM 4046 APPENDIX A CRITERIA (ug/kg) |
|----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------|---------------------------|--|--|
| | SDSF 12-14 FT 9/12/96 | SDSF 16-18 FT 9/12/96 | SDSF 20-22 FT 9/12/96 | SDSR 12-14 FT 9/12/96 | SDSR 16-18 FT 9/12/96 | SDSR 20-22 FT 9/12/96 | | | | |
| DATE OF COLLECTION | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 95 | 96 | 98 | 82 | 84 | 97 | | | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/L) | (ug/L) | (ug/kg) | (ug/kg) |
| Dibenzofuran | U | U | U | U | U | U | U | U | 330 | 6200 |
| 2,4-Dinitrotoluene | U | U | U | U | U | U | U | U | 330 | --- |
| Diethylphthalate | U | U | U | U | U | U | U | U | 330 | 7100 |
| 4-Chlorophenyl-phenylether | U | U | U | U | U | U | U | U | 330 | --- |
| Fluorene | U | U | U | U | U | U | U | U | 330 | 50000 |
| 4-Nitroaniline | U | U | U | U | U | U | U | U | 800 | --- |
| 4,6-Dinitro-2-methylphenol | U | U | U | U | U | U | U | U | 800 | --- |
| N-Nitrosodiphenylamine | U | U | U | U | U | U | U | U | 330 | --- |
| 4-Bromophenyl-phenylether | U | U | U | U | U | U | U | U | 330 | --- |
| Hexachlorobenzene | U | U | U | U | U | U | U | U | 330 | 410 |
| Pentachlorophenol | U | U | U | U | U | U | U | U | 800 | 1000 or MDL |
| Phenanthrene | U | U | U | U | U | U | U | U | 330 | 50000 |
| Anthracene | U | U | U | U | U | U | U | U | 330 | 50000 |
| Carbazole | U | U | U | U | U | U | U | U | 330 | --- |
| Di-n-butylphthalate | U | U | U | U | U | U | U | U | 330 | 8100 |
| Fluoranthene | U | U | U | U | U | U | U | U | 330 | 50000 |
| Pyrene | U | U | U | U | U | U | U | U | 330 | 50000 |
| Butylbenzylphthalate | U | U | U | U | U | U | U | U | 330 | 50000 |
| 3,3'-Dichlorobenzidine | U | U | U | U | U | U | U | U | 330 | 50000 |
| Benzo(a)anthracene | U | U | U | U | U | U | U | U | 330 | --- |
| Chrysene | U | U | U | U | U | U | U | U | 330 | 224 or MDL |
| bis(2-Ethylhexyl)phthalate | U | U | U | U | U | U | U | U | 330 | 400 |
| Di-n-octylphthalate | U | U | U | U | U | U | U | U | 330 | 50000 |
| Benzo(b)fluoranthene | U | U | U | U | U | U | U | U | 330 | 50000 |
| Benzo(k)fluoranthene | U | U | U | U | U | U | U | U | 330 | 1100 |
| Benzo(a)pyrene | U | U | U | U | U | U | U | U | 330 | 1100 |
| Indeno(1,2,3-cd)pyrene | U | U | U | U | U | U | U | U | 330 | 61 or MDL |
| Dibenzo(a,h)anthracene | U | U | U | U | U | U | U | U | 330 | 3200 |
| Benzo(g,h,i)perylene | U | U | U | U | U | U | U | U | 330 | 14 or MDL |
| TOTAL SVOCs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 500000 |

NOTES
 U: Compound analyzed for but not detected.
 -- : Not applicable.
 --- : Not established.

TABLE 4-22
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
FORMER ON-SITE SANITARY DISPOSAL SYSTEMS
PRIORITY POLLUTANT METALS

| SAMPLE LOCATION | FORMER ON-SITE SANITARY SYSTEM SOUTH OF PLANT 31 | | | | | | | | | | INSTRUMENT DETECTION LIMITS (ug/L) | EASTERN USA BACKGROUND LEVELS (mg/kg) |
|--------------------|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-----|---|---|
| | SDSS1A 12-14 FT 9/11/96 | SDSS1B 16-18 FT 9/11/96 | SDSS1C 20-22 FT 9/11/96 | SDSS2A 12-14 FT 9/11/96 | SDSS2B 16-18 FT 9/11/96 | SDSS2C 20-22 FT 9/11/96 | SDSS3A 12-14 FT 9/11/96 | SDSS3B 16-18 FT 9/11/96 | SDSS3C 20-22 FT 9/11/96 | | | |
| DATE OF COLLECTION | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| DILUTION FACTOR | 97.6 | 96.1 | 96.0 | 93.0 | 97.6 | 97.1 | 94.7 | 97.4 | 94.8 | | | |
| PERCENT SOLIDS | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | | | |
| UNITS | | | | | | | | | | | | |
| Antimony | U | 0.120 B | U | U | U | U | U | U | U | U | U | U |
| Arsenic | 1.14 | 1.52 | 1.82 | 2.23 | 1.05 | 1.17 | 2.04 | 0.811 B | 0.775 B | 3.9 | 3-12* | |
| Beryllium | 0.0584 B | 0.125 B | 0.102 B | 0.198 B | 0.0758 B | 0.0968 B | 0.183 B | 0.143 B | 0.119 B | 1.6 | 0-1.75 | |
| Cadmium | 0.0871 B | 0.0656 B | 0.0313 B | 0.331 B | 0.0359 B | 0.106 B | 0.133 B | 0.0380 B | 0.0327 B | 0.1 | 0.1-1 | |
| Chromium | 3.96 | 18.4 | 5.78 | 15.8 | 3.13 | 6.24 | 6.54 | 2.75 | 3.27 | 0.6 | 1.5-40* | |
| Copper | 4.31 | 6.75 | 3.84 | 26.6 | 4.00 | 6.69 | 14.0 | 3.01 | 7.55 | 1.3 | 1-50 | |
| Lead | 1.73 | 1.51 | 2.51 | 6.61 | 1.39 | 2.20 | 5.03 | 1.16 | 0.968 | 1.5 | 200-500** | |
| Mercury | 0.134 | 0.126 | 0.182 | 0.114 | U | U | 0.157 | U | U | 0.2 | 0.001-0.2 | |
| Nickel | 1.55 | 1.39 | 1.46 | 11.4 | 1.69 | 2.66 | 3.39 | 1.83 | 1.94 | 1.2 | 0.5-25 | |
| Selenium | U | U | U | U | U | U | U | U | U | 3.2 | 0.1-3.9 | |
| Silver | 0.0471 B | 0.0499 B | 0.0385 B | 0.203 B | 0.0492 B | 0.0711 B | 0.287 B | 0.0503 B | 0.0770 B | 0.7 | --- | |
| Thallium | U | U | U | U | U | U | U | U | U | 2.1 | --- | |
| Zinc | 9.75 | 11.2 | 8.20 | 20.4 | 5.72 | 8.36 | 14.1 | 5.50 | 6.04 | 2.1 | 9-50 | |

QUALIFIERS

U: Metal analyzed for but not detected.

B: Metal concentration is less than the CRDL but greater than the IDL.

NOTES

--- : Not established.

* : New York State Background.

** : Background for metropolitan or suburban areas.

TABLE 4-22 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 FORMER ON-SITE SANITARY DISPOSAL SYSTEMS
 PRIORITY POLLUTANT METALS

| SAMPLE LOCATION | FORMER FREE-STANDING BUILDING | | | OFFICE MODULE | | | FB-2 | INSTRUMENT DETECTION LIMITS (ug/L) | EASTERN USA BACKGROUND LEVELS (mg/kg) |
|-----------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------|---|---|
| | SDFS 12-14 FT 9/12/96 | SDFS 16-18 FT 9/12/96 | SDFS 20-22 FT 9/12/96 | SDSR 12-14 FT 9/12/96 | SDSR 16-18 FT 9/12/96 | SDSR 20-22 FT 9/12/96 | | | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 95.4 | 96.2 | 97.5 | 82.2 | 83.6 | 97.4 | | | |
| UNITS | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (ug/L) | (ug/L) | (mg/kg) |
| Antimony | U | U | U | U | U | U | U | 3.9 | --- |
| Arsenic | 1.08 | 0.700 B | 0.939 | 0.564 B | 0.754 B | 1.57 | U | 1.6 | 3-12* |
| Beryllium | 0.0943 B | 0.0977 B | 0.0872 B | 0.0633 B | 0.100 B | 0.109 B | U | 0.1 | 0-1.75 |
| Cadmium | 0.0231 B | U | 0.0246 B | U | 0.0239 B | U | U | 0.4 | 0.1-1 |
| Chromium | 2.50 | 3.38 | 2.90 | 1.79 | 2.46 | 5.38 | 2.87 B | 0.6 | 1.5-40* |
| Copper | 4.61 | 2.77 | 2.39 | 1.86 | 2.33 | 3.08 | 2.18 B | 1.3 | 1-50 |
| Lead | 1.75 | 1.23 | 1.03 | 0.748 | 0.996 | 1.06 | 2.31 B | 1.5 | 200-500** |
| Mercury | U | U | U | U | U | U | U | 0.2 | 0.001-0.2 |
| Nickel | 1.26 | 1.62 | 1.50 | 0.808 B | 1.87 | 1.56 | U | 1.2 | 0.5-25 |
| Selenium | U | U | U | U | U | U | U | 3.2 | 0.1-3.9 |
| Silver | 0.0985 U | U | 0.0544 B | 0.0511 B | U | 0.0483 B | 0.780 B | 0.7 | --- |
| Thallium | U | U | U | U | U | U | U | 2.1 | --- |
| Zinc | 13.9 | 5.76 | 5.51 | 2.95 B | 4.83 | 4.77 | U | 2.1 | 9-50 |

QUALIFIERS

U: Metal analyzed for but not detected.
 B: Metal concentration is less than the CRDL but greater than the IDL.

NOTES

--- : Not applicable.
 --- : Not established.
 * : New York State Background.
 ** : Background for metropolitan or suburban areas.

TABLE 4-23
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 FORMER ON-SITE SANITARY DISPOSAL SYSTEMS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

| SAMPLE LOCATION | FORMER ON-SITE SANITARY SYSTEM SOUTH OF PLANT 31 | | | | | | | | | | | |
|------------------------------|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------|----------|---------|
| | SDSS1A 12-14 FT 9/11/96 | SDSS1B 16-18 FT 9/11/96 | SDSS1C 20-22 FT 9/11/96 | SDSS2A 12-14 FT 9/11/96 | SDSS2B 16-18 FT 9/11/96 | SDSS2C 20-22 FT 9/11/96 | SDSS3A 12-14 FT 9/11/96 | SDSS3B 16-18 FT 9/11/96 | SDSS3C 20-22 FT 9/11/96 | | | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| PERCENT SOLIDS | 98 | 96 | 96 | 93 | 98 | 97 | 95 | 97 | 95 | 97 | 95 | 95 |
| UNITS | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| Total Petroleum Hydrocarbons | U | U | 22 | 360 | U | 23 | 59 | 38 | U | U | 59 | U |
| Kerosene | N/A | N/A | U | U | N/A | U | U | U | N/A | U | U | N/A |
| TPH (as Kerosene) | N/A | N/A | U | U | N/A | U | U | U | N/A | U | U | N/A |
| #2 Fuel Oil | N/A | N/A | U | U | N/A | U | U | U | N/A | U | U | N/A |
| TPH (as #2 Fuel Oil) | N/A | N/A | U | U | N/A | U | U | U | N/A | U | U | N/A |
| Varsol | N/A | N/A | U | U | N/A | U | U | U | N/A | U | U | N/A |
| TPH (as Varsol) | N/A | N/A | U | U | N/A | U | U | U | N/A | U | U | N/A |
| TPH (as Motor Oil) | N/A | N/A | U | detected ** | U | detected ** | detected | U | U | detected ** | detected | U |

QUALIFIERS

U: Compound analyzed for but not detected.

N/A: Compound not analyzed for.

** : Pattern for motor oil is present.

TABLE 4-23 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 FORMER ON-SITE SANITARY DISPOSAL SYSTEMS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

| SAMPLE LOCATION | FORMER FREE-STANDING BUILDING | | | OFFICE MODULE | | |
|------------------------------|-------------------------------|----------|----------|---------------|----------|----------|
| | SDSF | SDSF | SDSF | SDSR | SDSR | SDSR |
| SAMPLE IDENTIFICATION | 12-14 FT | 20-22 FT | 20-22 FT | 12-14 FT | 16-18 FT | 20-22 FT |
| SAMPLE DEPTH | 9/12/96 | 9/12/96 | 9/12/96 | 9/12/96 | 9/12/96 | 9/12/96 |
| DATE OF COLLECTION | 1 | 1 | 1 | 1 | 1 | 1 |
| DILUTION FACTOR | 95 | 96 | 98 | 82 | 84 | 97 |
| PERCENT SOLIDS | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| UNITS | | | | | | (ug/L) |
| Total Petroleum Hydrocarbons | 270 | 30 | 24 | 40 | 31 | 20 |
| Kerosene | U | U | U | U | U | U |
| TPH (as Kerosene) | U | U | U | U | U | U |
| #2 Fuel Oil | U | U | U | U | U | U |
| TPH (as #2 Fuel Oil) | U | U | U | U | U | U |
| Varsol | U | U | U | U | U | U |
| TPH (as Varsol) | U | U | U | U | U | U |
| TPH (as Motor Oil) | U | U | U | U | U | U |

QUALIFIERS
 U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.

NOTES
 -- : Not applicable.

- Semivolatile Organic Compounds
 - Not detected in SDSS1A (12'-14') and SDSS1B (16'-18')
 - Not detected above NYSDEC TAGM criteria in SDSS1C (20'-22')
- Priority Pollutant Metals
 - Not detected above Eastern USA background levels
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs not detected above method detection limit in SDSS1A (12'-14')
 - TPHCs not detected above method detection limit in SDSS1B (16'-18')
 - TPHCs detected at a concentration of 22 mg/kg at SDSS1C (20'-22')
 - Fuel-related Constituents not detected above method detection limits in SDSS1C (20'-22')

Former On-Site Sanitary Disposal System South of Plant 31 - Samples SDSS2A (12'-14'), SDSS2B (16'-18') and SDSS2C (20'-22')

- Volatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria in SDSS2A (12'-14') and SDSS2C (20'-22')
 - Not detected in SDSS2B (16'-18')
- Semivolatile Organic Compounds
 - Not detected in SDSS2A (12'-14') and SDSS2B (16'-18')
 - Not detected above NYSDEC TAGM criteria in SDSS2C (20'-22')
- Priority Pollutant Metals
 - Not detected above Eastern USA background levels
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 360 mg/kg in SDSS2A (12'-14')
 - TPHCs not detected above method detection limit in SDSS2B (16'-18')
 - TPHCs detected at a concentration of 23 mg/kg SDSS2C (20'-22')
 - TPHCs were classified as motor oil in SDSS2A (12'-14')
 - Fuel-related Constituents not detected above method detection limits in SDSS2C (20'-22')

Former On-Site Sanitary Disposal System South of Plant 31 - Sample SDSS3A (12'-14'), SDSS3B (16'-18') and SDSS3C (20'-22')

- Volatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria

- Semivolatile Organic Compounds
 - Not detected
- Priority Pollutant Metals
 - Not detected above Eastern USA background levels
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 59 mg/kg in SDSS3A (12'-14')
 - TPHCs detected at a concentration of 38 mg/kg in SDSS3B (16'-18')
 - TPHCs not detected above method detection limit in SDSS3C (20'-22')
 - TPHCs were classified as motor oil in SDSS3A (12'-14')
 - Fuel-related Constituents not detected above method detection limits in SDSS3B (16'-18')

Former On-Site Sanitary Disposal System Associated with Former Free-Standing Building - Samples SDSF (12'-14'), SDSF (16'-18') and SDSF (20'-22')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected
- Priority Pollutant Metals
 - Not detected above Eastern USA background levels
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 270 mg/kg in SDSF (12'-14')
 - TPHCs detected at a concentration of 30 mg/kg in SDSF (16'-18')
 - TPHCs detected at a concentration of 24 mg/kg in SDSF (20'-22')
 - Fuel-related Constituents not detected above method detection limits

Former On-Site Sanitary Disposal System Associated with Former "Relocatable" Office Module - Samples SDSR (12'-14'), SDSR (16'-18') and SDSR (20'-22')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected

- Priority Pollutant Metals
 - Not detected above Eastern USA background levels
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 40 mg/kg in SDSR (12'-14')
 - TPHCs detected at a concentration of 31 mg/kg in SDSR (16'-18')
 - TPHCs detected at a concentration of 20 mg/kg in SDSR (20'-22')
 - Fuel-related Constituents not detected above method detection limits

4.1.7 Leaching Pool and Dry Well

As stated in Section 3, soil samples were collected from the leaching pool associated with the HVAC Room floor drain and the dry well located in the alley between the Old Compressor Room and Environmental Test Hangar. The analytical results of soil samples are presented in Tables 4-24 through 4-27. The results are summarized as follows:

HVAC Room Floor Drain/Leaching Pool - Sample HVAC (10'-12')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria
- Priority Pollutant Metals
 - Copper detected at a concentration (99.8 mg/kg) exceeding the Eastern USA background level (50 mg/kg)
 - Mercury detected at a concentration (1.29 mg/kg) exceeding the Eastern USA background level (0.2 mg/kg)
 - Zinc detected at a concentration (209 mg/kg) exceeding the Eastern USA background level (50 mg/kg)
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 44 mg/kg
 - TPHCs were classified as motor oil

TABLE 4-24
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
LEACHING POOL AND DRY WELL
VOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION | HVAC LEACHING POOL | | DRY WELL BETWEEN COMP. | | ROOM AND TEST HANGAR | | CONTRACT REQUIRED DETECTION LIMITS | NYSDEC TAGM 4046 APPENDIX A CRITERIA |
|----------------------------|--------------------|----------|------------------------|---------|----------------------|----------|------------------------------------|--------------------------------------|
| | HVAC | HVAC | DWCE | DWCE | DWCE | DWCE | | |
| SAMPLE DEPTH | 10-12 FT | 12-14 FT | 3-5 FT | 5-7 FT | 11-13 FT | 19-21 FT | | |
| DATE OF COLLECTION | 9/16/96 | 9/16/96 | 9/12/96 | 9/12/96 | 9/12/96 | 9/12/96 | | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 91 | 96 | 72 | 95 | 96 | 96 | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/L) | (ug/kg) | (ug/kg) |
| Chloromethane | U | U | U | U | U | U | U | 10 |
| Bromomethane | U | U | U | U | U | U | U | 10 |
| Vinyl Chloride | U | U | U | U | U | U | U | 10 |
| Chloroethane | U | U | U | U | U | U | U | 10 |
| Methylene Chloride | U | U | U | U | U | U | U | 10 |
| Acetone | U | U | U | U | U | U | U | 10 |
| Carbon Disulfide | U | U | U | U | U | U | U | 2700 |
| 1,1-Dichloroethene | U | U | U | U | U | U | U | 400 |
| 1,1-Dichloroethane | U | U | 13 | U | U | U | U | 200 |
| 1,2-Dichloroethene (total) | U | U | 350 D | U | U | U | U | 300 |
| Chloroform | U | U | U | U | U | U | U | 300 |
| 1,2-Dichloroethane | U | U | U | U | U | U | U | 100 |
| 2-Butanone | U | U | U | U | U | U | U | 300 |
| 1,1,1-Trichloroethane | U | U | 29 | U | U | U | U | 800 |
| Carbon Tetrachloride | U | U | U | U | U | U | U | 600 |
| Bromodichloromethane | U | U | U | U | U | U | U | 10 |
| 1,2-Dichloropropane | U | U | U | U | U | U | U | 10 |
| cis-1,3-Dichloropropene | U | U | U | U | U | U | U | 10 |
| Trichloroethene | U | U | 130 | U | U | U | U | 700 |
| Dibromochloromethane | U | U | U | U | U | U | U | 10 |
| 1,1,2-Trichloroethane | U | U | U | U | U | U | U | 10 |
| Benzene | U | U | U | U | U | U | U | 60 |
| trans-1,3-Dichloropropene | U | U | U | U | U | U | U | 10 |
| Bromoforn | U | U | U | U | U | U | U | 1000 |
| 4-Methyl-2-pentanone | U | U | U | 4 | U | U | U | 10 |
| 2-Hexanone | U | U | U | U | U | U | U | 10 |
| Tetrachloroethene | U | U | U | U | U | U | U | 1400 |
| 1,1,2,2-Tetrachloroethane | U | U | U | U | U | U | U | 600 |
| Toluene | U | U | U | U | U | U | U | 1500 |
| Chlorobenzene | U | U | U | U | U | U | U | 1700 |
| Ethylbenzene | U | U | U | U | U | U | U | 5500 |
| Styrene | U | U | U | U | U | U | U | 10 |
| Xylene (total) | U | U | U | U | U | U | U | 1200 |
| TOTAL VOCs | 0 | 0 | 492 | 4 | 0 | 0 | 0 | 10000 |

NOTES
 -- : Not applicable.
 - - - : Not established.
 [Pattern] : Value exceeds NYSDEC TAGM 4046 Appendix A Criteria.

QUALIFIERS
 U: Compound analyzed for but not detected.
 J: Compound found at a concentration below the detection limit.
 D: Compound analyzed at a dilution factor of 5.

TABLE 4-25
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
LEACHING POOL AND DRY WELL
SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION SAMPLE IDENTIFICATION | HVAC LEACHING POOL | | DRY WELL BETWEEN COMP. | | ROOM AND TEST HANGAR | | FB-2 | FB-4 | CONTRACT REQUIRED DETECTION LIMITS | NYSDEC TAGM 4046 APPENDIX A CRITERIA |
|--|-----------------------------|-----------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------|---------|---------|---|---|
| | HVAC 10-12 FT 9/16/96 | HVAC 12-14 FT 9/16/96 | DWCE 3-5 FT 9/12/96 | DWCE 5-7 FT 9/12/96 | DWCE 11-13 FT 9/12/96 | DWCE 19-21 FT 9/12/96 | | | | |
| DATE OF COLLECTION | 9/16/96 | 9/16/96 | 9/12/96 | 9/12/96 | 9/12/96 | 9/12/96 | 9/12/96 | 9/16/96 | | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 91 | 96 | 72 | 95 | 96 | 96 | | | | |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/L) | (ug/L) | (ug/kg) | (ug/kg) |
| Phenol | U | U | U | U | U | U | U | U | 330 | 30 or MDL |
| bis(2-Chloroethyl)ether | U | U | U | U | U | U | U | U | 330 | --- |
| 2-Chlorophenol | U | U | U | U | U | U | U | U | 330 | 800 |
| 1,3-Dichlorobenzene | U | U | U | U | U | U | U | U | 330 | 1600 |
| 1,4-Dichlorobenzene | U | U | U | U | U | U | U | U | 330 | 8500 |
| 1,2-Dichlorobenzene | U | U | U | U | U | U | U | U | 330 | 7900 |
| 2-Methylphenol | U | U | U | U | U | U | U | U | 330 | 100 or MDL |
| 2,2'-Oxybis(1-chloropropane) | U | U | U | U | U | U | U | U | 330 | --- |
| 4-Methylphenol | U | U | U | U | U | U | U | U | 330 | 900 |
| N-Nitroso-di-n-propylamine | U | U | U | U | U | U | U | U | 330 | --- |
| Hexachloroethane | U | U | U | U | U | U | U | U | 330 | --- |
| Nitrobenzene | U | U | U | U | U | U | U | U | 330 | 200 or MDL |
| Isophorone | U | U | U | U | U | U | U | U | 330 | 4400 |
| 2-Nitrophenol | U | U | U | U | U | U | U | U | 330 | 330 or MDL |
| 2,4-Dimethylphenol | U | U | U | U | U | U | U | U | 330 | --- |
| bis(2-Chloroethoxy)methane | U | U | U | U | U | U | U | U | 330 | --- |
| 2,4-Dichlorophenol | U | U | U | U | U | U | U | U | 330 | --- |
| 1,2,4-Trichlorobenzene | U | U | U | U | U | U | U | U | 330 | 400 |
| Naphthalene | U | U | U | U | U | U | U | U | 330 | 3400 |
| 4-Chloroaniline | U | U | U | U | U | U | U | U | 330 | 13000 |
| Hexachlorobutadiene | U | U | U | U | U | U | U | U | 330 | 220 or MDL |
| 4-Chloro-3-methylphenol | U | U | U | U | U | U | U | U | 330 | --- |
| 2-Methylnaphthalene | U | U | U | U | U | U | U | U | 330 | 240 or MDL |
| Hexachlorocyclopentadiene | U | U | U | U | U | U | U | U | 330 | 36400 |
| 2,4,6-Trichlorophenol | U | U | U | U | U | U | U | U | 330 | --- |
| 2,4,5-Trichlorophenol | U | U | U | U | U | U | U | U | 330 | --- |
| 2-Chloronaphthalene | U | U | U | U | U | U | U | U | 330 | 100 |
| 2-Nitroaniline | U | U | U | U | U | U | U | U | 330 | --- |
| Dimethylphthalate | U | U | U | U | U | U | U | U | 330 | 430 or MDL |
| Acenaphthylene | U | U | U | U | U | U | U | U | 330 | 2000 |
| 2,6-Dinitrotoluene | U | U | U | U | U | U | U | U | 330 | 41000 |
| 3-Nitroaniline | U | U | U | U | U | U | U | U | 330 | 1000 |
| Acenaphthene | U | U | U | U | U | U | U | U | 330 | 500 or MDL |
| 2,4-Dinitrophenol | U | U | U | U | U | U | U | U | 330 | 50000 |
| 4-Nitrophenol | U | U | U | U | U | U | U | U | 330 | 200 or MDL |
| | U | U | U | U | U | U | U | U | 800 | 100 or MDL |

TABLE 4-25 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 LEACHING POOL AND DRY WELL
 SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE LOCATION SAMPLE IDENTIFICATION | HVAC LEACHING POOL | | DRY WELL BETWEEN COMP. ROOM AND TEST HANGAR | | FB-2 | FB-4 | CONTRACT REQUIRED DETECTION LIMITS | NYSDEC TAGM 4046 APPENDIX A CRITERIA |
|--|-----------------------------|-----------------------------|---|-----------------------------|--------|--------|---|---|
| | HVAC 10-12 FT 9/16/96 | HVAC 12-14 FT 9/16/96 | DWCE 3-5 FT 9/12/96 | DWCE 11-13 FT 9/12/96 | | | | |
| DILUTION FACTOR | 1 | 1 | 5 | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 91 | 96 | 72 | 96 | | | | (ug/kg) 6200 |
| UNITS | (ug/kg) | (ug/kg) | (ug/kg) | (ug/kg) | (ug/L) | (ug/L) | (ug/kg) | |
| Dibenzofuran | U | U | U | U | U | U | 330 | |
| 2,4-Dinitrotoluene | U | U | U | U | U | U | 330 | |
| Diethylphthalate | U | U | U | U | U | U | 330 | 7100 |
| 4-Chlorophenyl-phenylether | U | U | U | U | U | U | 330 | |
| Fluorene | U | U | U | U | U | U | 330 | 50000 |
| 4-Nitroaniline | U | U | U | U | U | U | 800 | |
| 4,6-Dinitro-2-methylphenol | U | U | U | U | U | U | 800 | |
| N-Nitrosodiphenylamine | U | U | U | U | U | U | 330 | |
| 4-Bromophenyl-phenylether | U | U | U | U | U | U | 330 | |
| Hexachlorobenzene | U | U | U | U | U | U | 330 | 410 |
| Pentachlorophenol | U | U | U | U | U | U | 800 | 1000 or MDL |
| Phenanthrene | U | U | 490 | U | U | U | 330 | 50000 |
| Anthracene | U | U | U | U | U | U | 330 | 50000 |
| Carbazole | U | U | 4700 | U | U | U | 330 | |
| Di-n-butylphthalate | U | U | 590 | 50 | U | U | 330 | 8100 |
| Fluoranthene | U | U | 480 | U | U | U | 330 | 50000 |
| Pyrene | U | U | 16000 | 140 | U | U | 330 | 50000 |
| Butylbenzylphthalate | U | U | U | U | U | U | 330 | 50000 |
| 3,3'-Dichlorobenzidine | U | U | U | U | U | U | 330 | |
| Benzo(a)anthracene | U | U | U | U | U | U | 330 | 224 or MDL |
| Chrysene | U | U | 280 | U | U | U | 330 | 400 |
| bis(2-Ethylhexyl)phthalate | U | U | 34000 | 290 | U | U | 330 | 50000 |
| Di-n-octylphthalate | U | U | 1000 | U | U | U | 330 | 50000 |
| Benzo(b)fluoranthene | U | U | U | U | U | U | 330 | 50000 |
| Benzo(k)fluoranthene | U | U | U | U | U | U | 330 | 1100 |
| Benzo(a)pyrene | U | U | U | U | U | U | 330 | 61 or MDL |
| Indeno(1,2,3-cd)pyrene | U | U | U | U | U | U | 330 | 3200 |
| Dibenzo(a,h)anthracene | U | U | U | U | U | U | 330 | 14 or MDL |
| Benzo(g,h,i)perylene | U | U | U | U | U | U | 330 | 50000 |
| TOTAL SVOCs | 100 | 0 | 65340 | 480 | 0 | 0 | | 500000 |

NOTES

U: Compound analyzed for but not detected.
 J: Compound found at a concentration below the detection limit.
 -: Not applicable.
 -: Not established.
 █: Value exceeds NYSDEC TAGM 4046 Appendix A Criteria.

TABLE 4-26
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
SOIL SAMPLING RESULTS
LEACHING POOL AND DRY WELL
PRIORITY POLLUTANT METALS

| SAMPLE LOCATION | HVAC LEACHING POOL | | DRY WELL BETWEEN COMP. ROOM AND TEST HANGAR | | | | INSTRUMENT DETECTION LIMITS (ug/L) | EASTERN USA BACKGROUND LEVELS (mg/kg) |
|--------------------|--------------------|----------|---|---------|----------|----------|------------------------------------|---------------------------------------|
| | HVAC | HVAC | DWCE | DWCE | DWCE | DWCE | | |
| SAMPLE DEPTH | 10-12 FT | 12-14 FT | 3-5 FT | 5-7 FT | 11-13 FT | 19-21 FT | | |
| DATE OF COLLECTION | 9/16/96 | 9/16/96 | 9/12/96 | 9/12/96 | 9/12/96 | 9/12/96 | | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | 1 | | |
| PERCENT SOLIDS | 91.2 | 96.3 | 71.8 | 95.2 | 96.3 | 96.1 | | |
| UNITS | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (ug/L) | (mg/kg) |
| Antimony | U | 0.144 | 6.32 | 0.159 | 0.270 | U | 3.9 | --- |
| Arsenic | 4.31 | 1.16 | 5.72 | 1.10 | 4.23 | 0.832 | 1.6 | 3-12* |
| Beryllium | 0.0559 | 0.243 | 0.404 | 0.0788 | 0.119 | 0.109 | 0.1 | 0-1.75 |
| Cadmium | 0.239 | 0.238 | 34.4 | 2.15 | 0.279 | 0.0801 | 0.4 | 0.1-1 |
| Chromium | 21.0 | 12.6 | 586 | 4.46 | 9.43 | 2.47 | 0.6 | 1.5-40* |
| Copper | 38.8 | 19.0 | 330 | 10.8 | 5.31 | 2.61 | 1.3 | 1-50 |
| Lead | 29.6 | 2.19 | 392 | 18.0 | 4.80 | 3.21 | 1.5 | 200-500** |
| Mercury | 1.29 | 0.200 | 22.4 | 0.111 | 563 | U | 0.2 | 0.001-0.2 |
| Nickel | 4.92 | 2.93 | 204 | 3.08 | 4.16 | 1.88 | 1.2 | 0.5-25 |
| Selenium | U | U | 0.760 | 0.294 | U | U | 3.2 | 0.1-3.9 |
| Silver | U | U | 8.91 | 0.204 | 0.136 | 0.0395 | 0.7 | --- |
| Thallium | U | U | 1270 | U | U | U | 2.1 | --- |
| Zinc | 200 | 49.7 | 1270 | 56.9 | 14.7 | 12.3 | 2.1 | 9-50 |

QUALIFIERS

U: Metal analyzed for but not detected.
B: Metal concentration is less than the CRDL but greater than the IDL.
D: Metal analyzed at a dilution factor of 10.
D*: Metal analyzed at a dilution factor of 100.

NOTES

-- : Not applicable.
--- : Not established.
█ : Value exceeds Eastern USA Background Level.
* : New York State Background.
** : Background for metropolitan or suburban areas.

TABLE 4-27
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 SOIL SAMPLING RESULTS
 LEACHING POOL AND DRY WELL
 TOTAL PETROLEUM HYDROCARBONS AND FUEL-RELATED CONSTITUENTS

| SAMPLE LOCATION | HVAC LEACHING POOL | | DRY WELL BETWEEN COMP. ROOM AND TEST HANGAR | | | | FB-2 |
|------------------------------|--------------------|----------|---|-------------|-------------|-------------|---------|
| | HVAC | HVAC | DWCE | DWCE | DWCE | DWCE | |
| SAMPLE IDENTIFICATION | 10-12 FT | 12-14 FT | 3-5 FT | 5-7 FT | 11-13 FT | 19-21 FT | |
| SAMPLE DEPTH | | | | | | | -- |
| DATE OF COLLECTION | 9/16/96 | 9/16/96 | 9/12/96 | 9/12/96 | 9/12/96 | 9/12/96 | 9/12/96 |
| DILUTION FACTOR | 1 | 1 | 1* | 1 | 1 | 1 | 1 |
| PERCENT SOLIDS | 91 | 96 | 72 | 95 | 96 | 96 | -- |
| UNITS | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (ug/L) |
| Total Petroleum Hydrocarbons | 44 | 32 | 5800 | 120 | 63 | 37 | U |
| Kerosene | | | | | | | |
| TPH (as Kerosene) | | U | U | U | U | U | N/A |
| #2 Fuel Oil | | U | U | U | U | U | N/A |
| TPH (as #2 Fuel Oil) | | U | U | U | U | U | N/A |
| Varsol | | U | U | U | U | U | N/A |
| TPH (as Varsol) | | U | U | U | U | U | N/A |
| TPH (as Motor Oil) | detected ** | U | detected ** | detected ** | detected ** | detected ** | N/A |

QUALIFIERS
 U: Compound analyzed for but not detected.
 N/A: Compound not analyzed for.
 *: Fuel-related constituents analysis was performed at a 1:50 dilution.
 **: Pattern for motor oil is present.

NOTES
 -- : Not applicable.

HVAC Room Floor Drain/Leaching Pool - Sample HVAC (12'-14')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected
- Priority Pollutant Metals
 - Mercury detected at a concentration (0.200 mg/kg) the same as the Eastern USA background level (0.2 mg/kg)
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 32 mg/kg
 - Fuel-related Constituents not detected above method detection limits

Dry Well Between Old Compressor Room and Environmental Test Hangar - Sample DWCE (3'-5')

- Volatile Organic Compounds
 - 1,2-Dichloroethene detected at a concentration (790 ug/kg) exceeding the NYSDEC TAGM criterion (300 ug/kg)
- Semivolatile Organic Compounds
 - Phenol detected at a concentration (4,100 ug/kg) exceeding the NYSDEC TAGM criterion (30 ug/kg)
- Priority Pollutant Metals
 - Cadmium detected at a concentration (34.4 mg/kg) exceeding the Eastern USA background level (1.0 mg/kg)
 - Chromium detected at a concentration (599 mg/kg) exceeding the Eastern USA background level (40 mg/kg)
 - Copper detected at a concentration (330 mg/kg) exceeding the Eastern USA background level (50 mg/kg)
 - Mercury detected at a concentration (22.4 mg/kg) exceeding the Eastern USA background level (0.2 mg/kg)
 - Nickel detected at a concentration (204 mg/kg) exceeding the Eastern USA background level (25 mg/kg)
 - Zinc detected at a concentration (1,270 mg/kg) exceeding the Eastern USA background level (50 mg/kg)

- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 5,800 mg/kg
 - TPHCs were classified as motor oil

Dry Well Between Old Compressor Room and Environmental Test Hangar - Sample DWCE (5'-7')

- Volatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria
- Semivolatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria
- Priority Pollutant Metals
 - Cadmium detected at a concentration (2.15 mg/kg) exceeding the Eastern USA background level (1.0 mg/kg)
 - Zinc detected at a concentration (56.9 mg/kg) exceeding the Eastern USA background level (50 mg/kg)
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 120 mg/kg
 - TPHCs were classified as motor oil

Dry Well Between Old Compressor Room and Environmental Test Hangar - Samples DWCE (11'-13') and DWCE (19'-21')

- Volatile Organic Compounds
 - Not detected
- Semivolatile Organic Compounds
 - Not detected above NYSDEC TAGM criteria
- Priority Pollutant Metals
 - Mercury detected at a concentration (363 mg/kg) exceeding the Eastern USA background level (0.2 mg/kg) in DWCE (11'-13')
 - Not detected above Eastern USA background levels in DWCE (19'-21')
- Total Petroleum Hydrocarbons/Fuel-Related Constituents
 - TPHCs detected at a concentration of 63 mg/kg in DWCE (11'-13')
 - TPHCs detected at a concentration of 37 mg/kg in DWCE (19'-21')
 - TPHCs were classified as motor oil in DWCE (11'-13') and DWCE (19'-21')

4.2 Groundwater Sampling

As previously discussed in Section 3, groundwater samples were collected from monitoring wells PLMW-1 and B30MW-1 and analyzed for VOCs (Method 8240), SVOCs (Method 8270) and priority pollutant metals. The analytical results of the groundwater samples are presented on Tables 4-28 through 4-30.

The results of the groundwater samples analyzed for VOCs are presented on Table 4-28. As indicated on Table 4-28, VOCs were not detected in the samples collected from PLMW-1 and B30-MW-1 with the exception of chloroform. Chloroform was detected in the sample from B30MW-1 at an estimated concentration of 2 ug/l, which is below the NYSDEC Class GA groundwater standard of 7 ug/l for that compound.

The results of the samples analyzed for SVOCs are presented on Table 4-29. As indicated on Table 4-29, SVOCs were not detected in the samples collected from PLMW-1 and B30MW-1.

The results of the samples analyzed for priority pollutant metals are presented on Table 4-30. As indicated on Table 4-30, priority pollutant metals were not detected above NYSDEC Class GA groundwater standards/guidance values in the unfiltered groundwater sample collected from PLMW-1, with the exception of arsenic (detected at a concentration of 35.7 ug/l). The NYSDEC Class GA groundwater standard for arsenic is 25 ug/l.

However, since the groundwater from the monitoring wells was highly turbid, additional groundwater samples were obtained from the wells and the samples were filtered at the laboratory to remove soil particles prior to analysis. Table 4-30 also presents the analytical results for priority pollutant metals (dissolved) of the filtered groundwater samples. The filtered samples are identified as PLMW-1-D and B30MW-1-D. As indicated in Table 4-30, arsenic was not detected above method detection limits in the filtered sample collected from PLMW-1.

TABLE 4-28
GRUMMAN AEROSPACE CORPORATION - PLANT 31
PHASE II SITE ASSESSMENT
GROUNDWATER SAMPLING RESULTS
VOLATILE ORGANIC COMPOUNDS

| SAMPLE IDENTIFICATION DATE OF COLLECTION | PLMW-1 9/23/96 | B30MW-1 9/23/96 | FB-1GW 9/23/96 | TB-1 9/23/96 | CONTRACT REQUIRED DETECTION LIMIT (ug/L) | NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (ug/L) |
|---|-------------------|--------------------|-------------------|-----------------|--|---|
| | | | | | | |
| Chloromethane | U | U | U | U | 10 | 5 ST |
| Bromomethane | U | U | U | U | 10 | 5 ST |
| Vinyl Chloride | U | U | U | U | 10 | 2 ST |
| Chloroethane | U | U | U | U | 10 | 5 ST |
| Methylene Chloride | U | U | U | U | 10 | 5 ST |
| Acetone | U | U | U | U | 10 | 50 GV |
| Carbon Disulfide | U | U | U | U | 10 | --- |
| 1,1-Dichloroethene | U | U | U | U | 10 | 5 ST |
| 1,1-Dichloroethane | U | U | U | U | 10 | 5 ST |
| 1,2-Dichloroethene (total) | U | U | U | U | 10 | 7 ST |
| Chloroform | U | J | U | U | 10 | 5 ST |
| 1,2-Dichloroethane | U | U | U | U | 10 | 50 GV |
| 2-Butanone | U | U | U | U | 10 | 5 ST |
| 1,1,1-Trichloroethane | U | U | U | U | 10 | 5 ST |
| Carbon Tetrachloride | U | U | U | U | 10 | 50 GV |
| Bromodichloromethane | U | U | U | U | 10 | 5 ST |
| 1,2-Dichloropropane | U | U | U | U | 10 | 5 ST |
| cis-1,3-Dichloropropene | U | U | U | U | 10 | 5 ST |
| Trichloroethene | U | U | U | U | 10 | 50 GV |
| Dibromochloromethane | U | U | U | U | 10 | 5 ST |
| 1,1,2-Trichloroethane | U | U | U | U | 10 | 0.7 ST |
| Benzene | U | U | U | U | 10 | 5 ST |
| trans-1,3-Dichloropropene | U | U | U | U | 10 | 50 GV |
| Bromoform | U | U | U | U | 10 | --- |
| 4-Methyl-2-pentanone | U | U | U | U | 10 | 50 GV |
| 2-Hexanone | U | U | U | U | 10 | 5 ST |
| Tetrachloroethene | U | U | U | U | 10 | 5 ST |
| 1,1,2,2-Tetrachloroethane | U | U | U | U | 10 | 5 ST |
| Toluene | U | U | U | U | 10 | 5 ST |
| Chlorobenzene | U | U | U | U | 10 | 5 ST |
| Ethylbenzene | U | U | U | U | 10 | 5 ST |
| Styrene | U | U | U | U | 10 | 5 ST |
| Xylene (total) | U | U | U | U | 10 | 5 ST* |
| Total VOCs | 0 | 2 | 0 | 0 | | |

NOTES
 U: Compound analyzed for but not detected.
 J: Result found at a concentration below the detection limit, value estimated.
 ST : Standard.
 GV : Guidance Value.
 -- : Not applicable.
 --- : Not established.
 * : Applies to each isomer individually.

TABLE 4-29
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 GROUNDWATER SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE IDENTIFICATION DATE OF COLLECTION | PLMW-1 9/23/96 | B30MW-1 9/23/96 | FB-1GW 9/23/96 | CONTRACT | | NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES |
|---|-------------------|--------------------|-------------------|----------------------------------|----------|---|
| | | | | REQUIREDE DETECTION LIMITS | (ug/L) | |
| DILUTION FACTOR | | | | | | |
| UNITS | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) |
| Phenol | U | U | U | 10 | 1 ST** | |
| bis(2-Chloroethyl)ether | U | U | U | 10 | 1.0 ST | |
| 2-Chlorophenol | U | U | U | 10 | 1.0 ST** | |
| 1,3-Dichlorobenzene | U | U | U | 10 | 5 ST | |
| 1,4-Dichlorobenzene | U | U | U | 10 | 4.7 ST* | |
| 1,2-Dichlorobenzene | U | U | U | 10 | 4.7 ST* | |
| 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 | 5 ST | |
| Nitrobenzene | U | U | U | 10 | 5 ST | |
| Isophorone | U | U | U | 10 | 50 GV | |
| 2-Nitrophenol | U | U | U | 10 | --- | |
| 2,4-Dimethylphenol | U | U | U | 10 | --- | |
| 2,4-Dichlorophenol | U | U | U | 10 | 1 ST** | |
| 1,2,4-Trichlorobenzene | U | U | U | 10 | 5 ST | |
| Naphthalene | U | U | U | 10 | 10 GV | |
| 4-Chloroaniiline | U | U | U | 10 | 5 ST | |
| Hexachlorobutadiene | U | U | U | 10 | 5 ST | |
| bis(2-Chloroethoxy)methane | U | U | U | 10 | 5 ST | |
| 4-Chloro-3-methylphenol | U | U | U | 10 | 5 ST | |
| 2-Methylnaphthalene | U | U | U | 10 | 1 ST** | |
| Hexachlorocyclopentadiene | U | U | U | 10 | --- | |
| 2,4,6-Trichlorophenol | U | U | U | 10 | 5 ST | |
| 2,4,5-Trichlorophenol | U | U | U | 10 | 1 ST** | |
| 2-Chloronaphthalene | U | U | U | 25 | 5 ST | |
| 2-Nitroaniiline | U | U | U | 25 | 5 ST | |
| Dimethylphthalate | U | U | U | 10 | 50 GV | |
| Acenaphthylene | U | U | U | 10 | --- | |
| 2,6-Dinitrotoluene | U | U | U | 10 | 5 ST | |
| 3-Nitroaniiline | U | U | U | 25 | 5 ST | |
| Acenaphthene | U | U | U | 10 | 20 GV | |
| 2,4-Dinitrophenol | U | U | U | 25 | --- | |
| 4-Nitrophenol | U | U | U | 25 | --- | |

TABLE 4-29 (continued)
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 GROUNDWATER SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

| SAMPLE IDENTIFICATION DATE OF COLLECTION | PLMW-1 9/23/96 | B30MW-1 9/23/96 | FB-1GW 9/23/96 | CONTRACT REQUIRED DETECTION LIMITS (ug/L) | NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (ug/L) |
|---|-------------------|--------------------|-------------------|---|---|
| DILUTION FACTOR | (ug/L) | (ug/L) | (ug/L) | | |
| UNITS | | | | | |
| Dibenzofuran | U | U | U | 10 | --- |
| 2,4-Dinitrotoluene | U | U | U | 10 | 5 ST |
| Diethylphthalate | U | U | U | 10 | 50 GV |
| 4-Chlorophenyl-phenylether | U | U | U | 10 | --- |
| Fluorene | U | U | U | 10 | 50 GV |
| 4-Nitroaniline | U | U | U | 25 | 5 ST |
| 4,6-Dinitro-2-methylphenol | U | U | U | 25 | --- |
| N-Nitrosodiphenylamine | U | U | U | 10 | 50 GV |
| 4-Bromophenyl-phenylether | U | U | U | 10 | --- |
| Hexachlorobenzene | U | U | U | 0.35 ST | --- |
| Pentachlorophenol | U | U | U | 1 ST ** | --- |
| Phenanthrene | U | U | U | 25 | 50 GV |
| Anthracene | U | U | U | 10 | 50 GV |
| Carbazole | U | U | U | 10 | --- |
| Di-n-butylphthalate | U | U | U | 10 | 50 ST |
| Fluoranthene | U | U | U | 10 | 50 GV |
| Pyrene | U | U | U | 10 | 50 GV |
| Butylbenzylphthalate | U | U | U | 10 | 50 GV |
| 3,3'-Dichlorobenzidine | U | U | U | 10 | 50 GV |
| Benzo(a)anthracene | U | U | U | 10 | 50 GV |
| Chrysene | U | U | U | 10 | 5 ST |
| bis(2-Ethylhexyl)phthalate | U | U | U | 10 | 0.002 GV |
| Di-n-octylphthalate | U | U | U | 10 | 0.002 GV |
| Benzo(b)fluoranthene | U | U | U | 10 | 50 ST |
| Benzo(k)fluoranthene | U | U | U | 10 | 50 GV |
| Benzo(a)pyrene | U | U | U | 10 | 0.002 GV |
| Indeno(1,2,3-cd)pyrene | U | U | U | 10 | 0.002 GV |
| Dibenzo(a,h)anthracene | U | U | U | 10 | ND ST |
| Benzo(g,h,i)perylene | U | U | U | 10 | 0.002 GV |
| TOTAL SVOCs | 0 | 0 | 0 | | --- |

QUALIFIERS
 U: Compound analyzed for but not detected.

NOTES
 ST : Standard.
 GV : Guidance Value.
 ND : Non-detected.
 -- : Not applicable.
 --- : Not established.
 * : Value pertains to the sum of the isomers.
 ** : Value pertains to total phenols.

TABLE 4-30
 GRUMMAN AEROSPACE CORPORATION - PLANT 31
 PHASE II SITE ASSESSMENT
 GROUNDWATER SAMPLING RESULTS
 PRIORITY POLLUTANT METALS

| SAMPLE IDENTIFICATION | PLMW-1 | PLMW-1-D* | B30MW-1 | B30MW-1-D* | FB-1GW | NYSDEC CLASS GA GROUNDWATER STANDARDS/GUIDANCE VALUES (ug/L) |
|-----------------------|---------|-----------|---------|------------|---------|---|
| DATE OF COLLECTION | 9/23/96 | 10/09/96 | 9/23/96 | 10/09/96 | 9/23/96 | |
| DILUTION FACTOR | 1 | 1 | 1 | 1 | 1 | |
| UNITS | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | |
| Antimony | U | U | U | U | U | 3 GV |
| Arsenic | 35.7 | U | 44.9 | U | U | 25 ST |
| Beryllium | U | U | U | U | U | 3 GV |
| Cadmium | U | 0.390 B | 28.5 | 0.460 B | U | 10 ST |
| Chromium | 31.0 | 0.450 B | 28.1 | 0.940 B | 11.8 | 50 ST |
| Copper | 32.0 | 6.64 B | 28.5 | 5.51 B | 3.15 B | 200 ST |
| Lead | 12.7 | U | 21.8 | U | U | 25 ST |
| Mercury | U | U | U | U | U | 2 ST |
| Nickel | 5.07 B | U | 3.64 B | U | 0.910 B | --- |
| Selenium | U | U | 7.53 | U | U | 10 ST |
| Silver | U | U | U | U | U | 50 ST |
| Thallium | U | U | U | U | U | 4 GV |
| Zinc | 36.9 | U | 43.8 | U | U | 300 ST |

QUALIFIERS

U: Metal analyzed for but not detected.
 B: Metal concentration is less than the CRDL
 but greater than the IDL.

NOTES

GV : Guidance Value.
 ST : Standard.
 --- : Not established.
 [shaded box] : Value exceeds NYSDEC Class GA Groundwater Standards/
 Guidance Values.
 * : Analysis results are for dissolved metals.

At monitoring well B30MW-1, priority pollutant metals were not detected above NYSDEC standards/guidance values, with the exception of arsenic (detected at a concentration of 44.9 ug/l) and cadmium (detected at a concentration of 28.5 ug/l). The standards for these metals are 25 ug/l and 10 ug/l, respectively. As indicated on Table 4-30, arsenic was not detected in the filtered sample, and cadmium was not detected above the groundwater standard.

4.3 Historical Groundwater Quality Data

Since a groundwater sample could not be obtained at monitoring well GM-8S, a review of available historical water quality data from GM-8S, as well as three other monitoring wells in the vicinity of the Plant 31 site including P-2, B30MW-1, and PLMW-1 (see Figure 3-2) was undertaken. The following presents a summary of the analytical results from previous sampling events.

Monitoring Well GM-8S

As part of the Remedial Investigation of the GAC Bethpage Facility, monitoring well GM-8S, located to the south and upgradient of the Plant 31 site, was sampled for volatile organic compounds in October 1991 and August 1993, and for inorganic constituents in August 1993. Volatile organic compounds were not detected above method detection limits in the sample collected in 1991 at GM-8S, and were not detected above method detection limits in 1993, with the exception of tetrachloroethene. Tetrachloroethene was detected at an estimated concentration of 2 ug/l, which was below the groundwater standard of 5 ug/l. Both unfiltered and filtered groundwater samples were collected from GM-8S for metals analysis in 1993. Priority pollutant metals were not detected above NYSDEC Class GA groundwater standards/guidance values.

Monitoring Well P-2

Monitoring well P-2, located northwest of the Plant 31 site, was sampled for volatile organic compounds and inorganic constituents in March 1994 in connection with a delisting

petition for GAC Buildings 30 and 35. Volatile organic compounds were not detected above NYSDEC Class GA groundwater standards/guidance values. Inorganic constituents were not detected above groundwater standards with the exception of chromium. Chromium was detected at a concentration of 1,340 ug/l, which exceeded the NYSDEC groundwater standard of 50 ug/l. However, since this sample could not be obtained at a turbidity of less than 50 NTUs, an additional groundwater sample was obtained and filtered to remove soil particles prior to laboratory analysis. Chromium was not detected above the method detection limit in the filtered sample from P-2.

Well P-2 was resampled in December 1994 for priority pollutant metals with similar results. Priority pollutant metals were not detected above NYSDEC groundwater standards/guidance values with the exception of chromium. Chromium was detected in the unfiltered sample at a concentration of 549 ug/l, which exceeded the groundwater standard of 50 ug/l. However, chromium was detected in the filtered sample at a concentration of 9.6 ug/l, which was below the groundwater standard.

The most recent sampling event at P-2 occurred in May 1996. Well P-2 was sampled for volatile organic compounds, TPHCs and RCRA heavy metals (filtered and unfiltered). Split samples were collected and analyzed by two separate laboratories. The analytical results of this sampling indicated that volatile organic compounds were not detected above Class GA groundwater standards, and RCRA heavy metals were not detected above groundwater standards/guidance values with the exception of chromium. Chromium was detected at concentrations of 428 ug/l and 394 ug/l in the unfiltered samples and at concentrations of 61.5 and 49.4 in the filtered samples. The Class GA groundwater standard for chromium is 50 ug/l. TPHCs were not detected above the method detection limits.

Monitoring Well B30MW-1

Monitoring well B30MW-1 is located downgradient of the site for at least a portion of the year. Well B30MW-1 was sampled in March 1994 for volatile organic compounds and inorganic

constituents as part of a delisting petition for GAC Buildings 30 and 35. Volatile organic compounds were not detected above method detection limits, with the exception of methylene chloride and chloroform. Methylene chloride was detected at an estimated concentration of 1 ug/l, which was below the groundwater standard of 5 ug/l. Chloroform was detected at a concentration of 2 ug/l, which was below the groundwater standard of 7 ug/l.

Priority pollutant metals were not detected above the groundwater standards/guidance values in the unfiltered sample, with the exception of beryllium. Beryllium was detected in the unfiltered sample at a concentration of 3.6 ug/l, which exceeded the guidance value of 3.0 ug/l. However, beryllium was not detected above method detection limits in the filtered sample.

Monitoring Well PLMW-1

Monitoring well PLMW-1 is located downgradient of the site for at least a portion of the year. Well PLMW-1 was sampled in February 1992 for volatile organic compounds and inorganic constituents. Volatile organic compounds were not detected above method detection limits, with the exception of methylene chloride. Methylene chloride was detected at a concentration of 3.67 ug/l, which was below the groundwater standard of 5 ug/l. Priority pollutant metals were not detected above method detection limits, with the exception of zinc. Zinc was detected at a concentration of 130 ug/l, which was below the groundwater standard of 300 ug/l.

4.4 Data Validation

Soil and groundwater samples were collected as part of the Phase II Site Assessment. The samples were analyzed for various parameters including volatile and semivolatile organic compounds, polychlorinated biphenyls (PCBs), metals, total petroleum hydrocarbons and fuel-related constituents (fuel fingerprint), depending upon sample location. Analysis was performed by IEA Inc., a subcontractor to Dvirka and Bartilucci Consulting Engineers.

Twenty percent of the data packages were validated yielding a "20% validation". The validation was performed in accordance with NYSDEC Quality Assurance/Quality Control (QA/QC) requirements. The findings of the validation process are summarized below.

All samples were analyzed within the appropriate holding time as required by each method. All calibrations meet QC requirements. Most surrogate recoveries were within QC limits. A few samples had one of the volatile surrogate recoveries below QC limits. These samples were reanalyzed with similar recoveries proving matrix interference, therefore the results from the initial run should be utilized for environmental assessment purposes.

Sample TAC (0'-2') required reanalysis at a secondary dilution due to the concentration of bis(2-ethylhexyl)phthalate exceeding the instrument calibration range. The results from the undiluted run should be utilized for all compounds except bis(2-ethylhexyl)phthalate, which should be taken from the diluted run. Sample DWCE (3'-5') required reanalysis at a 1:5 dilution due to the concentration of 1,2 dichloroethene (total) exceeding the instrument calibration range. All volatile results should be taken from the undiluted run with the exception of 1,2-dichloroethene (total) which should be taken from the diluted run.

Fuel fingerprint analysis was performed utilizing USEPA SW846 Method 8015 with the gasoline range organics being selected as the standard. This allowed for quantification of the gasoline range compounds and the identification (qualitative) of the heavier fuel oils. If the TPHC analysis by Method 418.1 of a soil sample yielded a positive result, then the sample was analyzed for a fuel fingerprint to classify the type of petroleum product present. Motor oil was identified as the type of petroleum product present in several of the soil samples.

The antimony result for SDSS1B (16'-18') has been qualified as estimated possibly biased low due to a low spike recovery. The other samples associated with that matrix spike did not contain antimony, hence no qualification was required.

The groundwater samples required analysis of both total and dissolved metals. Two sets of metals bottles were collected, one preserved for total metals and one unpreserved for dissolved metals. The unpreserved sample was to be filtered in the laboratory then preserved, however, preservation was done prior to filtering. Therefore, dissolved metals analysis could not be done. The two monitoring wells were resampled for dissolved metals. The only compounds detected were cadmium, chromium and copper. These results were qualified as estimated possibly biased high since they were also found in the preparation blank.

Four samples required dilutions for mercury analysis. Two were analyzed at a 1:100 dilution, TA-C (0'-2') and DWCE (11'-13'), one at a 1:10 dilution, DWCE (3'-5'), and one at a 1:5 dilution TA-C (2'-4').

No other problems were noted, therefore the data is deemed valid and usable as qualified above.

Section 5

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the findings of the Phase II Site Assessment field program described in Section 4, the conclusions of the Phase II Site Assessment are presented in this section, and recommendations are provided regarding further investigative activities and remedial action at the site.

5.1 Soil Sampling Program

5.1.1 Test Areas

Test Area "C"

As indicated in Section 4, VOCs and SVOCs were either not detected above method detection limits or were below applicable NYSDEC TAGM criteria in samples TA-C (0'-2') and TA-C (2'-4'). TPHCs were detected at an elevated level of 650 mg/kg and were classified as motor oil in soil sample TA-C (0'-2'); however, TPHCs were detected at a low level in soil sample TA-C (2'-4'). Although there is no NYSDEC TAGM criterion for TPHCs, a limit of 500 mg/kg has been accepted at similar sites in consultation with NYSDEC. In addition, the following priority pollutant metals were detected in concentrations exceeding Eastern USA background levels in soil sample TA-C (0'-2'): cadmium, chromium, copper, mercury, nickel and zinc. All of these metals, with the exception of mercury, were detected below the Eastern USA background levels in soil sample TA-C (2'-4').

Based upon these results, it appears that the elevated levels of TPHCs and metals in soil at location TA-C are limited to the upper two feet below the floor of the pit. However, mercury was detected at a concentration exceeding the Eastern USA background level in the deeper sample collected at 2 to 4 feet below the floor. Therefore, the vertical extent of soil contamination should be determined at location TA-C. Thus, it is recommended that one boring be advanced to a depth of 10 feet below the pit floor at location TA-C, with continuous split

spoon sampling from 0 to 10 feet below the bottom of the pit. The soil sample collected at 0 to 2 feet should be analyzed for the VOCs and SVOCs listed in Table 2 of Appendix B of NYSDEC's "Spill Technology and Remediation Series (STARS) Memo #1," by Toxicity Characteristic Leaching Procedure (TCLP). The soil samples collected from depths of 2 to 4 feet, 4 to 6 feet, 6 to 8 feet and 8 to 10 feet should be analyzed for mercury (Method 7471).

In addition, the horizontal and vertical extent of soil contamination immediately surrounding location TA-C should be determined. Therefore, it is recommended that three soil borings be advanced at locations 5 feet east, west and south of TA-C (specific locations to be determined in the field) to a depth of 10 feet below the pit floor with continuous split spoon sampling from 0 to 10 feet. It should be noted that a boring cannot be advanced north of TA-C due to limited access around the pit. It is recommended that five samples be collected from each boring (total of 15 samples) and analyzed for cadmium, chromium, copper, mercury, nickel and zinc (Method 6010/7471). The soil samples collected from 0 to 2 feet and 2 to 4 feet in each boring (total of 6 samples) should also be analyzed for TPHCs (Method 418.1). In addition, if the level of TPHCs detected in a sample is greater than 500 mg/kg, then that sample should also be analyzed for STARS Table 2 VOCs and SVOCs by TCLP.

Test Area "B"

As indicated in Section 4, VOCs, SVOCs and priority pollutant metals were either not detected above method detection limits or were below applicable NYSDEC TAGM criteria or Eastern USA background levels. TPHCs were detected at low levels (less than 500 mg/kg), and fuel-related constituents were not detected above method detection limits.

Therefore, additional investigative activities in this area do not appear to be warranted.

Test Area "A" and Pump Room

As indicated in Section 4, VOCs, SVOCs and priority pollutant metals were either not detected above method detection limits or were below applicable NYSDEC TAGM criteria or Eastern USA background levels. TPHCs were detected at low levels (less than 500 mg/kg). The TPHCs were classified as motor oil in the 0'-2' sampling interval. Fuel-related constituents were not detected in the 2'-4' sampling interval.

Therefore, additional investigative activities in this area do not appear to be warranted.

Environmental Test Laboratory Hangar Area

As indicated in Section 4, VOCs and SVOCs were not detected above method detection limits and priority pollutant metals were not detected above Eastern USA background levels with the exception of zinc. Zinc was detected at a concentration slightly above the Eastern USA background level in the 0'-2' sampling interval at ETL2, but was below the Eastern USA background level at the 2'-4' sampling interval. Therefore, the elevated level of zinc in the soil at ETL2 appears to be limited to the upper 2 feet below the floor of the pit. Furthermore, zinc is not listed as a hazardous constituent in Appendix 23 6NYCRR Part 371. TPHCs were either detected at low levels (less than 500 mg/kg) or were not detected above method detection limits. TPHCs were classified as motor oil in samples ETL1 (0'-2') and ETL1 (2'-4').

Therefore, additional investigative activities in this area do not appear to be warranted.

5.1.2 Area of Former 5,000-Gallon UST

As indicated in Section 4, VOCs and SVOCs listed in Table 2 of Appendix B in NYSDEC's STARS Memo #1 were not detected above method detection limits. TPHCs were detected at low concentrations (less than 500 mg/kg), and TPHCs were classified as motor oil in samples UST1 (9'-11'), UST1 (11'-13') and UST2 (9'-11').

Therefore, additional investigative activities at this location do not appear to be warranted.

5.1.3 Oil/Water Separator

As indicated in Section 4, VOCs, SVOCs and priority pollutant metals were either not detected above method detection limits or were detected below applicable NYSDEC TAGM criteria or Eastern USA background levels. TPHCs were detected at low concentrations (less than 500 mg/kg) and fuel-related constituents were not detected above method detection limits.

Therefore, additional investigative activities in this area do not appear to be warranted.

5.1.4 Area of Former Recharge Basin

As indicated in Section 4, VOCs, SVOCs and priority pollutant metals were either not detected above method detection limits or were below applicable NYSDEC TAGM criteria or Eastern USA background levels. TPHCs were detected at low concentrations (less than 500 mg/kg) and fuel-related constituents were not detected above method detection limits. PCBs were not detected with the exception of Aroclor 1242, which was detected at a concentration of 280 ug/kg in sample RB-1 (25'-27'). However, this concentration is well below the 10,000 ug/kg NYSDEC TAGM level for total PCBs in subsurface soils.

Therefore, additional investigative activities in this area do not appear to be warranted.

5.1.5 Drum/Chemical Storage Areas

Fenced Chemical Storage Area

As indicated in Section 4, VOCs and SVOCs were either not detected above method detection limits or were below applicable NYSDEC TAGM criteria, and priority pollutant metals were not detected above Eastern USA background levels, with the exception of zinc in soil sample FCSA (0'-2'). Zinc was not detected above the Eastern USA background level in the 2'-4' sampling interval. It is important to note that zinc is not listed as a hazardous constituent in Appendix 23 of 6NYCRR Part 371, and the elevated level of zinc in the soil at location FCSA appears to be limited to the upper 2 feet below grade. TPHCs were not detected above method detection limits.

Therefore, additional investigative activities in this area do not appear to be warranted.

Vapor Cycle Building Drum Storage Area

As indicated in Section 4, VOCs, SVOCs and priority pollutant metals were either not detected above method detection limits or were below applicable NYSDEC TAGM criteria or Eastern USA background levels. TPHCs were detected at a low concentration (less than 500 mg/kg) in the 0'-2' sampling interval and were not detected above the method detection limit in the 2'-4' sampling interval.

Therefore, additional investigative activities in this area do not appear to be warranted.

Waste Chemical Shed

As indicated in Section 4, VOCs, SVOCs and priority pollutant metals were either not detected above method detection limits or were detected below applicable NYSDEC TAGM criteria or Eastern USA background levels. TPHCs were detected at a low level (less than 500

mg/kg) in sample WCS1(0'-2') and nondetect in sample WCS1 (2'-4'). However, TPHCs were detected at a concentration of 1,600 mg/kg in sample WCS2 (0'-2') but at a low level (less than 500 mg/kg) in sample WCS2(2'-4'). As discussed, although there is no NYSDEC TAGM criterion for TPHCs, a limit of 500 mg/kg has been accepted at similar sites in consultation with NYSDEC. TPHCs were classified as motor oil in WCS2 (0'-2') and WCS2 (2'-4').

Due to the elevated concentration (1,600 mg/kg) of TPHCs detected in sample WCS2 (0'-2'), additional investigative activities are warranted. Therefore, it is recommended that the horizontal extent of contamination be determined at location WCS2. One soil boring should be advanced immediately adjacent to WCS2 to a depth of 2 feet. The split spoon sample from 0 to 2 feet should be analyzed for STARS Table 2 VOCs and SVOCs by TCLP. Also, four soil borings should be advanced at locations 5 feet to the north, east, south and west of WCS2, to a depth of 4 feet, with continuous split spoon sampling from 0 to 4 feet. Two soil samples from each boring (total of 8 samples) should be collected and analyzed for TPHCs (Method 418.1). In addition, if the level of TPHCs detected in a sample is greater than 500 mg/kg, then that sample should also be analyzed for STARS Table 2 VOCs and SVOCs by TCLP.

Former Drum Storage Area Between Old Compressor Room and Test Area "A"

As indicated in Section 4, VOCs were not detected above NYSDEC TAGM criteria. SVOCs, including benzo(a)anthracene, chrysene and benzo(a)pyrene, were detected at concentrations that exceeded their respective NYSDEC TAGM criteria in the 0'-2' sampling interval at location DSAC1, but were not detected above method detection limits in the 2'-4' sampling interval. Therefore, the elevated levels of SVOCs in the soil at location DSAC1 appear to be limited to the upper 2 feet below grade. In addition, although these SVOCs were detected in the 0'-2' sampling interval at concentrations that exceeded the *individual* NYSDEC TAGM criteria for these compounds, the sample did not exhibit a concentration of *total* SVOCs above the NYSDEC alternate criterion of 500 mg/kg (500,000 ug/kg) for *total* SVOCs.

Benzo(a)pyrene was also detected in soil sample DSAC3 (2'-4') at a concentration that was slightly above the *individual* NYSDEC TAGM criterion for this compound. This compound was not detected in the more shallow soil sample, DSAC3 (0'-2'). Although the soil sample from the 2'-4' sampling interval exhibited a concentration of an *individual* SVOC constituent in excess of the respective NYSDEC TAGM criterion, the sample did not exhibit a concentration of *total* SVOCs above the NYSDEC alternate criterion of 500,000 ug/kg for *total* SVOCs.

Zinc was detected above the Eastern USA background level in the 0'-2' sampling intervals at locations DSAC1 and DSAC2; however, the concentrations of zinc were below the background level in the 2'-4' sampling intervals. Therefore, the elevated levels of zinc in the soil at DSAC1 and DSAC2 appear to be limited to the upper 2 feet below grade. In addition, zinc is not listed as a hazardous constituent in Appendix 23 of 6NYCRR Part 371.

TPHCs were detected at low concentrations (less than 500 mg/kg) in the samples and were classified as motor oil in samples DSAC1 (0'-2'), DSAC1 (2'-4') and DSAC2 (0'-2').

Therefore, based upon the analytical results of samples collected at boring locations DSAC1, DSAC2 and DSAC3, it does not appear that further investigative activities are warranted.

5.1.6 Former On-site Sanitary Disposal Systems

As indicated in Section 4, VOCs, SVOCs and priority pollutant metals were either not detected above method detection limits or were detected at concentrations below applicable NYSDEC TAGM criteria or Eastern USA background levels in the soil samples collected at the former on-site sanitary disposal system south of Plant 31, the former on-site sanitary disposal system associated with the former free-standing building, and the former on-site sanitary disposal system associated with the former "relocatable office module." TPHCs were either not detected above method detection limits or were detected at low concentrations (less than 500 mg/kg), and were classified as motor oil in samples SDSS2A (12'-14') and SDSS3A (12'-14').

Therefore, based upon the analytical results of the samples collected at boring locations SDSS1, SDSS2 and SDSS3, it does not appear that further investigative activities are warranted.

5.1.7 Leaching Pool and Dry Well

HVAC Room Floor Drain/Leaching Pool

As indicated in Section 4, VOCs and SVOCs were either not detected above method detection limits or were detected at concentrations below the NYSDEC TAGM criteria. However, the following priority pollutant metals were detected at concentrations in excess of the Eastern USA background levels in the 10'-12' sampling interval: copper, mercury and zinc. However, copper and zinc were found at concentrations that were below the Eastern USA background levels in the 12'-14' sampling interval, and mercury was detected at the Eastern USA background level of 0.2 mg/kg. TPHCs were detected in low concentrations (less than 500 mg/kg), and were classified as motor oil in the 10'-12' sampling interval.

Therefore, based upon the analytical results, it is recommended that the sediment/soil in the leaching pool be excavated to a depth of approximately 3 feet below the bottom of the leaching pool (from 10 to 13 feet below grade) and that an endpoint sample be collected and analyzed for mercury (Method 7471). The residual sediment/soil excavated from the pool should be containerized for proper off-site disposal. Provided that the endpoint sample does not exhibit elevated concentrations of mercury, it is recommended that the leaching pool be backfilled to grade with clean sand and gravel. In addition, the floor drain in the HVAC Room should be properly closed.

Dry Well Between Old Compressor Room and Test Hangar

As indicated in Section 4, one VOC, 1,2-dichloroethene, was detected at a concentration that exceeded the NYSDEC TAGM criterion in the 3'-5' sampling interval, but was not detected

above method detection limits in the 5'-7' sampling interval. One SVOC, phenol, was detected at a concentration that exceeded the NYSDEC TAGM criterion for that compound in the 3'-5' sampling interval, but was not detected above method detection limits in the 5'-7' sampling interval. Several priority pollutant metals were detected above Eastern USA background levels in the 3'-5' sampling interval, including cadmium, chromium, copper, mercury, nickel and zinc. Only cadmium and zinc were detected above Eastern USA background levels in the 5'-7' sampling interval. However, mercury was detected at a concentration of 363 mg/kg in the 11'-13' sampling interval. TPHCs were detected at an elevated concentration of 5,800 mg/kg in the 3'-5' sampling interval, and were classified as motor oil in this sample. TPHCs were also detected in the 5'-7', 11'-13' and 19'-21' sampling intervals at low concentrations (less than 500 mg/kg), and were classified as motor oil in each of these sampling intervals.

Therefore, based upon the analytical results, it is recommended that the level of mercury at the 11'-13' sampling interval be confirmed and that the vertical extent of mercury contamination be determined between 7 feet to 19 feet at location DWCE. Also, the contaminated soil at the 3' to 5' interval should be characterized for disposal. Thus, it is recommended that one boring be advanced to a depth of 19 feet at DWCE, with continuous split spoon sampling from 3 to 19 feet below grade. The seven soil samples collected between 5 feet to 19 feet should be analyzed for mercury (Method 7471), and the soil sample collected from the 3' to 5' interval should be analyzed for complete TCLP waste characterization (including VOCs, SVOCs, pesticides, herbicides and metals).

In addition, the horizontal and vertical extent of soil contamination immediately surrounding location DWCE should be determined. Therefore, it is recommended that four soil borings be advanced at locations 5 feet to the north, east, south and west of DWCE to a depth of 19 feet with continuous split spoon sampling from 3 feet to 19 feet. It is recommended that eight samples be collected from each boring (total of 32 samples) and analyzed for VOCs (Method 8240), SVOCs (Method 8270), priority pollutant metals (Method 6010/7471), and total petroleum hydrocarbons (Method 418.1). In addition, if the level of TPHCs detected in a sample

is greater than 500 mg/kg, then that sample should also be analyzed for STARS Table 2 VOCs and SVOCs by TCLP.

5.2 Groundwater Sampling Program

As discussed in Section 4, VOCs and SVOCs were not detected above method detection limits or were detected at concentrations below NYSDEC Class GA groundwater standards/guidance values in the groundwater samples collected from monitoring wells PLMW-1 and B30MW-1.

As indicated in Section 4, priority pollutant metals were not detected in PLMW-1 and B30MW-1 above NYSDEC groundwater standards/guidance values with the exception of arsenic in PLMW-1 and arsenic and cadmium in B30MW-1. Since the samples were highly turbid, additional samples were obtained from the wells and the samples were filtered prior to laboratory analysis.

Arsenic was not detected above method detection limits in the filtered samples, and cadmium was detected at a concentration below the groundwater standard in the filtered sample from B30MW-1. Therefore it appears that the elevated concentrations of arsenic and cadmium found in the unfiltered samples are attributable to the presence of high total suspended solids and not indicative of groundwater quality. As a result, it can be concluded that priority pollutant metals were not detected in concentrations that were above the groundwater standards.

Therefore, based upon the above referenced groundwater sample results, further investigation and/or monitoring of groundwater does not appear to be warranted.

Appendix A

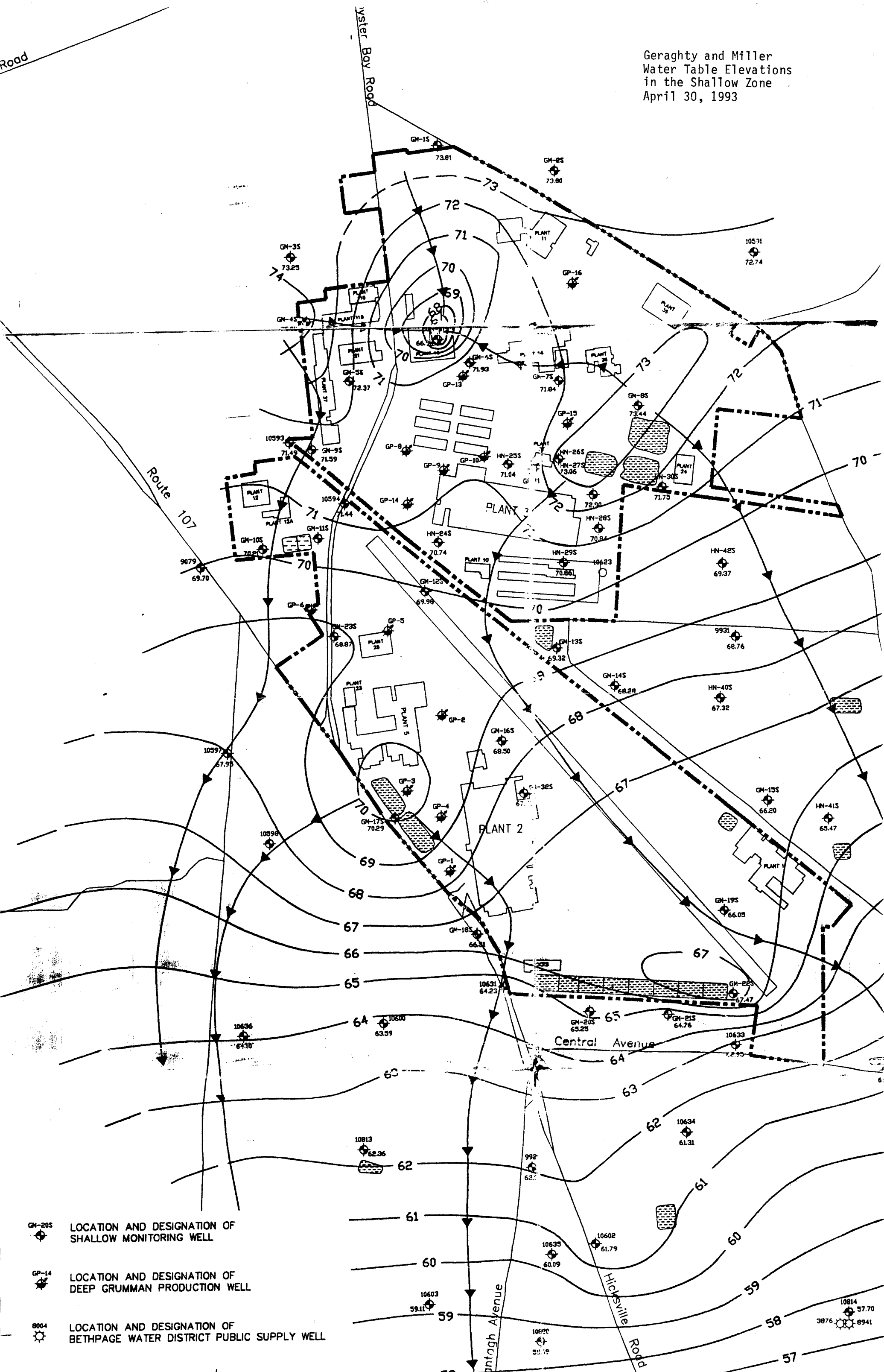





APPENDIX A

SUPPLEMENTAL INFORMATION

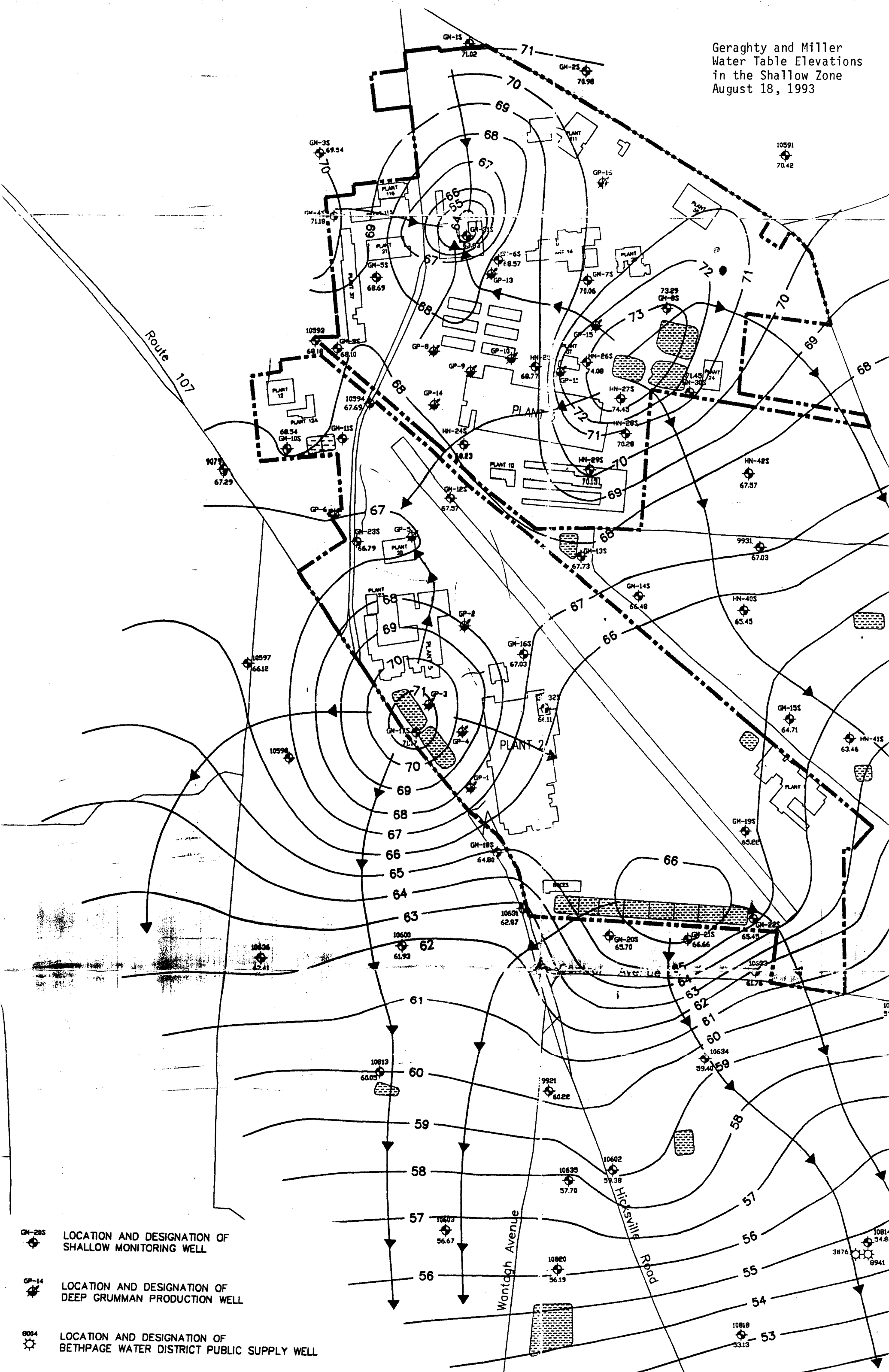
◆1167\Y0927601.DOC(R02)




Geraghty and Miller
Water Table Elevations
in the Shallow Zone
April 30, 1993



- 
 LOCATION AND DESIGNATION OF SHALLOW MONITORING WELL
- 
 LOCATION AND DESIGNATION OF DEEP GRUMMAN PRODUCTION WELL
- 
 LOCATION AND DESIGNATION OF BETHPAGE WATER DISTRICT PUBLIC SUPPLY WELL

Geraghty and Miller
Water Table Elevations
in the Shallow Zone
August 18, 1993



- 
 LOCATION AND DESIGNATION OF SHALLOW MONITORING WELL
- 
 LOCATION AND DESIGNATION OF DEEP GRUMMAN PRODUCTION WELL
- 
 LOCATION AND DESIGNATION OF BETHPAGE WATER DISTRICT PUBLIC SUPPLY WELL

Appendix B



APPENDIX B

BORING LOGS

◆1167\Y0927601.DOC(R02)

BORING LOG



**DVIRKA
AND
BARTILUCCI**

| | |
|------------------------------------|-------------------------------------|
| Project No.: <u>1167-II</u> | Well/Boring No.: <u>SP551</u> |
| Project Name: <u>GRUMAN Bld 31</u> | Sheet <u>1</u> of <u>1</u> |
| | By: <u>KSR</u> Date: <u>9/11/96</u> |
| | Chk'd: _____ Date: _____ |

| | |
|---|---|
| Drilling Contractor: <u>John Emington</u> | Borehole Completion Depth: <u>22 FT</u> |
| Driller: <u>Wally</u> Geologist: <u>Keith Roberts</u> | Borehole Diameter: <u>4 1/4 inch</u> |
| Drill Rig: <u>CM275</u> Drilling Method: <u>4 1/4 HSA</u> | Ground Surface El.: _____ |
| Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: <u>140 lbs</u> | |
| Date Started: <u>9/11/96</u> Date Completed: <u>9/11/96</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/ROD | BLOWS/6" | HEADSPACE (PPM) DVA | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|-------------------|------------------------|---|
| 10 | | | | | | No soil sampling from (0-12') |
| 11 | | | | | | (12-14') |
| 12 | 1 | 12-14 | 6" | 6, 10, 14, 18 | 0.0 | 0-2" concrete, dark gray 2"-6" Brown-light orange medium sand, trace coarse sand, fine gravel, dry. |
| 13 | | | | | | |
| 14 | 2 | 14-16 | 15" | 12, 15, 15, 17 | 0.0 | (14-16') Orange Brown medium to coarse gtz sand, with varying amounts of medium gravel at (15-16') (dry) |
| 15 | | | | | | |
| 16 | 3 | 16-18 | 18" | 12, 14 14, 18 | 0.0 | (16-18') 0-3" Light Orange fine-medium Sand, (dry) 3"-18" Tan-Light Brown coarse sand, fine subrounded gravel, poorly sorted, trace large gravel, (very moist) |
| 17 | | | | | | |
| 18 | 4 | 18-20 | 12" | 11, 11, 11, 14 | 0.0 | (18-20') Brown-Light-Tan coarse-medium gtz sand, some fine sand, trace silt, some gravel, loose. (very moist) |
| 19 | | | | | | |
| 20 | 5 | 20-22 | 12" | 8, 10, 12, 12 | 0.0 | (20-22') Light Tan coarse sand and gravel (medium), poorly sorted. (moist) |

| | |
|---|--|
| Remarks: Soil samples selected for laboratory analysis (12-14) (14-16) (20-22) | Water Level Measurement (END of Boring AT 22 FT) _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____ |
|---|--|

BL

BORING LOG



Project No.: 1167-IT
 Project Name: BRUMMAN Bldg 31

Well/Boring No.: SDSS2
 Sheet 1 of 1
 By: KR Date: 9/11/96
 Chk'd: _____ Date: _____

Drilling Contractor: John Emington
 Driller: Wally Geologist: Keith Robins
 Drill Rig: CME 95 Drilling Method: HSA
 Sample Spoon I.D.: 2 inch Drive Hammer Wt.: 170 lbs
 Date Started: 9/11/96 Date Completed: 9/11/96
 Borehole Completion Depth: 22 FT
 Borehole Diameter: 4 1/4 inch
 Ground Surface El.: -

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) OVA | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|-------------------|---------------------|--|
| 1-0 | | | | | | No soil sampling from (0-12') |
| 1-1 | | | | | | |
| 1-2 | 1 | 12-14 | 12" | 11, 11, 16, 18 | 0.0 | (12'-14') Dark Brown coarse to fine gtz sand, little-some fine-medium subrand gravel, trace crushed gray concrete stone trace silt, (moist) |
| 1-3 | | | | | | |
| 1-4 | 2 | 14-16 | 12" | 11, 12 15, 20 | 0.0 | (14'-16') Light Tan coarse sand and gravel poorly sorted, loose. (dry-damp) |
| 1-5 | | | | | | |
| 1-6 | 3 | 16-18 | 18" | 9, 7, 12, 13 | 0.0 | (16-18) Tan - Light Brown coarse sand and abundant fine-medium gravel, poorly sorted, (dry) |
| 1-7 | | | | | | |
| 1-8 | 4 | 18-20 | 6" | 6, 11, 20, 24 | 0.0 | (18'-20') Brown-light Tan coarse sand and gravel, f-m, poorly sorted, loose. |
| 1-9 | | | | | | |
| 2-0 | 5 | 20-22 | 15" | 11, 11, 20, 24 | 0.0 | (20'-22') Light Brown coarse-medium gtz sand, some gtz subrand gravel, very moist, towards tip of spoon little fine sand, trace silt (slightly wet) |

Remarks: Selected soil samples (12-14)
 (16-18)
 for laboratory analysis (20-22)

Water Level Measurement
 (END OF BORING AT 22') _____ Date _____
 _____ Date _____
 _____ Date _____

BL

BORING LOG



| | |
|------------------------------|--------------------------------------|
| Project No.: <u>1167-II</u> | Well/Boring No.: <u>UST 1</u> |
| Project Name: <u>GRUMMAN</u> | Sheet <u>1</u> of <u>1</u> |
| <u>Big 31</u> | By: <u>ICOR</u> Date: <u>9/11/96</u> |
| | Chk'd: _____ Date: _____ |

| | |
|---|---|
| Drilling Contractor: <u>John Emington</u> | Borehole Completion Depth: <u>13 FT</u> |
| Driller: <u>Wally</u> Geologist: <u>Keith Robins</u> | Borehole Diameter: <u>4 1/4 inch</u> |
| Drill Rig: <u>CMESS</u> Drilling Method: <u>4 1/4 HSA</u> | Ground Surface El.: _____ |
| Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: <u>140 lbs</u> | |
| Date Started: <u>9/11/96</u> Date Completed: <u>9/11/96</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) DVA | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|------------------|------------------------|--|
| 0 | | | | | | No soil sampling at (0-9') |
| 2 | | | | | | |
| 4 | | | | | | |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | 1 | 9-11 | 24" | 19, 22 25, 28 | 0.0 | (9'-11') Dark Brown coarse to medium sand, little concrete, silt, some fine to medium gravel, grading down to orange-brown coarse sand, gravel, poorly sorted. (dry) |
| 12 | | | | | | |
| 14 | 2 | 11-13 | 24" | 28, 22 30, 35 | 0.0 | (11'-13') 6-12" Dark Brown medium gtz sand, little fine to coarse sand. Some fine gravel. 12"-24" Orange-brown coarse-medium sand, angular gravel, trace stones, large gravel. (dry) |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | END OF BORING AT 13 FT |

| | |
|---|--|
| Remarks: <u>Samples (9-11) and (11-13) selected for lab analysis</u> | Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____ |
|---|--|

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-II
 Project Name: GRUMMAN
BLD 31

Well/Boring No.: UST 2
 Sheet 1 of 1
 By: KAR Date: 9/1/96
 Chk'd: _____ Date: _____

Drilling Contractor: John Emington
 Driller: Wally Geologist: Keith Robins
 Drill Rig: CME75 Drilling Method: 4 1/4 HSA
 Sample Spoon I.D.: 2 inch Drive Hammer Wt.: 140 lbs
 Date Started: 9/1/96 Date Completed: 9/11/96

Borehole Completion Depth: 13 FT
 Borehole Diameter: 4 1/4 inch
 Ground Surface El.: _____

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) OVA | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|---------------|---------------------|---|
| 0 | | | | | | No soil sampling from (0-9') |
| 2 | | | | | | |
| 4 | | | | | | |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | 1 | 9-11 | 15" | 9, 13, 28, 32 | 0.0 | (9'-11') 0-7" Dark Brown coarse-medium sand, trace fine sand, silt, trace wood, concrete. Fill material. |
| 12 | | | | | | |
| 14 | 2 | 11-13 | 24" | 9, 16, 20, 24 | 0.0 | (11'-13') 7"-15" Brown-Orange coarse sand and gravel, poorly sorted, loose, (dry-dump) |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| | | | | | | 0-15" Dark Brown medium to fine gtz sand (moist), little angular gravel, trace silt, clay. 15"-24" Brown-Orange coarse sand some fine-medium gravel (damp) |
| | | | | | | END OF Boring AT 13 FT |

Remarks:
 Soil samples (9-11) and (11-13) selected for lab analysis

Water Level Measurement

| | | |
|-------|------|-------|
| _____ | Date | _____ |
| _____ | Date | _____ |
| _____ | Date | _____ |
| _____ | Date | _____ |

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

| | |
|-------------------------------------|------------------------------------|
| Project No.: <u>1167-II</u> | Well/Boring No.: <u>SDSS3</u> |
| Project Name: <u>Grumman Bld 31</u> | Sheet <u>1</u> of <u>1</u> |
| | By: <u>KR</u> Date: <u>9/11/96</u> |
| | Chk'd: _____ Date: _____ |

| | |
|---|---|
| Drilling Contractor: <u>John Emington</u> | Borehole Completion Depth: <u>22 FT</u> |
| Driller: <u>Wally</u> Geologist: <u>Keith Robins</u> | Borehole Diameter: <u>4 1/4 inch</u> |
| Drill Rig: <u>CME 75</u> Drilling Method: <u>HSA</u> | Ground Surface El.: <u>-</u> |
| Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: <u>140 lbs</u> | |
| Date Started: <u>9/11/96</u> Date Completed: <u>9/11/96</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) <i>OVA</i> | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|-------------------|-------------------------------|--|
| 10 | | | | | | (0-12') No soil sampling |
| 11 | | | | | | (14-18') Driller noted large cobbles in soil cuttings. |
| 12 | | | | | | (12'-14') Brown coarse to fine sand, little silt, quartz gravel, (dry) |
| 13 | 1 | 12-14 | 18" | 24, 20 19, 22 | 0.0 | |
| 14 | | | | | | (14'-16') Brown - Light Brown coarse sand and gravel, poorly sorted, (dry) |
| 15 | 2 | 14-16 | 12" | 6, 6, 10, 17 | 0.0 | |
| 16 | | | | | | (16'-18') Brown - Tan coarse sand, little - some, subrounded gravel, (dry) |
| 17 | 3 | 16-18 | 3" | 12, 14, 19, 24 | 0.0 | |
| 18 | 4 | 18-20 | 15" | 16, 10 9, 17 | 0.0 | (18'-20') 0-6" Brown coarse - medium sand and gravel, damp |
| 19 | | | | | | 6"-15" Tan fine grtz sand, well sorted sand trace fine gravel, little silt, (damp) |
| 20 | 5 | 20-22 | 15" | 5, 8, 13, 16 | 0.0 | (20-22') Brown - Light Tan coarse to fine grtz sand, some gravel, poorly sorted (damp) |

| | |
|---|---|
| Remarks: selected (12-14) for lab analysis (16-18) (20-22) | Water Level Measurement _____ Date _____ (END OF Boring AT 22 FT) _____ Date _____ _____ Date _____ _____ Date _____ |
|---|---|

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

| | |
|-------------------------------------|-------------------------------------|
| Project No.: <u>1167-II</u> | Well/Boring No.: <u>5D5R</u> |
| Project Name: <u>Grumman Bld 31</u> | Sheet <u>1</u> of <u>1</u> |
| | By: <u>KSR</u> Date: <u>9/12/96</u> |
| | Chk'd: _____ Date: _____ |

| | |
|---|---|
| Drilling Contractor: <u>John Emington</u> | Borehole Completion Depth: <u>22 Ft</u> |
| Driller: <u>Wally</u> Geologist: <u>Keith Robins</u> | Borehole Diameter: <u>4 7/8 inch</u> |
| Drill Rig: <u>CME 25</u> Drilling Method: <u>4 1/4 inch HSA</u> | Ground Surface El.: _____ |
| Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: <u>146 lbs</u> | |
| Date Started: <u>9/12/96</u> Date Completed: <u>9/12/96</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) CVA | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|-------------------|------------------------|--|
| 1-0 | | | | | | |
| 1-1 | | | | | | |
| 1-2 | 1 | 12-14 | 18" | 8, 10, 14, 17 | 0.0 | (12'-14') Light Brown fine-coarse gtz sand, little some fine gravel, trace silt |
| 1-3 | | | | | | |
| 1-4 | 2 | 14-16 | 18" | 4, 9, 15, 17 | 0.0 | (14'-16') Light Tan-Brown medium to coarse sand, some subrounded gravel, trace silt. (dry) |
| 1-5 | | | | | | |
| 1-6 | 3 | 16-18 | 15" | 8, 16, 20, 25 | 0.0 | (16'-18') Light Tan coarse sand and gravel crushed stones, some fine-medium sand, (dry) |
| 1-7 | | | | | | |
| 1-8 | 4 | 18-20 | 15" | 17, 20 23, 26 | 0.0 | (18'-20') Light Brown-Tan coarse to medium subrounded sand, little some fm gravel, trace silt, poorly sorted. (damp) |
| 1-9 | | | | | | |
| 2-0 | 5 | 20-22 | 15" | 15, 16, 18, 22 | 0.0 | (20'-22') 0-7" Brown coarse sand and gravel 7"-15" white-Light Tan fine-medium sand, little gravel, trace silt. well sorted. (damp) |

| | |
|---|---|
| Remarks: Soil samples selected for laboratory analysis (12-14) (16-18) (20-22) | Water Level Measurement END of Boring at (22 FT) |
| | Date _____ Date _____ Date _____ Date _____ |

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

| | |
|-------------------------------------|-------------------------------------|
| Project No.: <u>1167-II</u> | Well/Boring No.: <u>505F</u> |
| Project Name: <u>Gelmann Bld 31</u> | Sheet 1 of <u>1</u> |
| | By: <u>KSR</u> Date: <u>9/12/96</u> |
| | Chk'd: _____ Date: _____ |

| | |
|--|---|
| Drilling Contractor: <u>John Emington</u> | Borehole Completion Depth: <u>22 FT</u> |
| Driller: <u>Wally</u> Geologist: <u>Keith Robins</u> | Borehole Diameter: <u>4 1/4 inch</u> |
| Drill Rig: <u>CME 75</u> Drilling Method: <u>4 1/4 HSA</u> | Ground Surface El.: _____ |
| Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: <u>140 lbs.</u> | |
| Date Started: <u>9/12/96</u> Date Completed: <u>9/12/96</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/ RQD | BLOWS/6" | HEADSPACE (PPM) <small>DVA</small> | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|------------------|-------------------|--|--|
| 1-0 | | | | | | No soil samples collected (0-12') |
| 11- | | | | | | |
| 12- | 1 | 12-14 | 6" | 14, 16, 19, 18 | 0.0 | (12'-14') Light Tan coarse subrounded quartz sand, some fine gravel. (moist) |
| 13- | 2 | 14-16 | 20" | 6, 10, 14, 19 | 0.0 | (14'-16') Brown-Light Tan coarse sand, and abundant medium size gravel, poorly sorted. (damp) |
| 14- | 3 | 16-18 | 12" | 13, 17, 18, 21 | 0.0 | (16'-18') Light Tan coarse medium sand, and abundant angular gravel gtz, poorly sorted, fine (dry) |
| 15- | 4 | 18-20 | 12" | 14, 16, 17, 17 | 0.0 | (18'-20') Light Tan-Brown fine-coarse gtz sand, some-little fine gravel. (damp) |
| 16- | 5 | 20-22 | 12" | 15, 17, 19, 15 | 0.0 | (20'-22') Light Tan-Brown fine-coarse gtz sand, some-little gravel. (damp) |

| | |
|---|--|
| Remarks: Soil samples selected for laboratory analysis (12-14) (16-18) (20-22). | Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____ |
|---|--|

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-II
Project Name: Commun Bld 31

Well/Boring No.: DWCE
Sheet 1 of 2
By: KSR Date: 9/12/96
Chk'd: _____ Date: _____

Drilling Contractor: John F. Emington
Driller: Wally/Dennis Geologist: Keith Rubins
Drill Rig: CME 75 Drilling Method: 4 1/4 HSA
Sample Spoon I.D.: 2 inch Drive Hammer Wt.: 140 lbs
Date Started: 9/12/96 Date Completed: 9/12/96

Borehole Completion Depth: 21 FT
Borehole Diameter: 4 1/4 inch
Ground Surface El.: -

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) OVA | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|----------------|------------------------|--|
| 0 | | | | | | 0-3' No soil samples (void) |
| -1 | | | | | | |
| -2 | | | | | | (3-5') 0-18" Black clayey silt, trace metal scraps, organics, strong gas/oil and solvent odor. |
| -3 | 1 | 3-5 | 24" | 2,3, 3, 14 | >1000 | 18"-24" Brown-Orange medium-coarse sand, odor noted. |
| -4 | | | | | | (5-7') Brown-orange medium sand, little fine gravel, tr silt, (damp moist) |
| -5 | 2 | 5-7 | 12" | 23, 23 28, 24 | 30 | |
| -6 | | | | | | (7'-9') Crushed gtz cobble, little Brown C-m sand |
| -7 | 3 | 7-9 | 4" | 21, 19 18, 22 | 0 | (9'-11') Brown-Light orange coarse sand abundant gravel, poorly sorted. |
| -8 | | | | | | |
| -9 | 4 | 9-11 | 15" | 11, 16, 18, 20 | 0.0 | |
| -10 | | | | | | |

Remarks: Selected soil samples (3-5) (5-7), (11-13) and (19-21) for lab analysis

Water Level Measurement _____ Date _____
 _____ Date _____
 _____ Date _____
 _____ Date _____

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

| | |
|--------------------------------------|-------------------------------------|
| Project No.: <u>1167-II</u> | Well/Boring No.: <u>DWCE</u> |
| Project Name: <u>Grumman Bldg 31</u> | Sheet <u>2</u> of <u>2</u> |
| | By: <u>KSE</u> Date: <u>9/12/96</u> |
| | Chk'd: _____ Date: _____ |

| | |
|--|---|
| Drilling Contractor: <u>John Emery</u> | Borehole Completion Depth: <u>21 FT</u> |
| Driller: <u>Dennis/Wally</u> | Geologist: <u>Keith Robin</u> |
| Drill Rig: <u>CME 75</u> | Drilling Method: _____ |
| Sample Spoon I.D.: <u>1 inch</u> | Drive Hammer Wt.: _____ |
| Date Started: <u>9/12/96</u> | Date Completed: <u>9/12/96</u> |
| | Borehole Diameter: <u>4 1/4 inch</u> |
| | Ground Surface El.: _____ |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|----------------|-----------------|---|
| 10 | | | | | | (11-13') 0-12" Dark Red Orange coarse Sand / gravel |
| 11 | 5 | 11-13 | 18" | 16, 18, 22, 24 | 0.0 | 12"-28" Light Tan fine-coarse Sand, gravel. (damp) |
| 12 | | | | | | (13-15') Tan coarse Sand abundant f-m subrnd gravel, poorly sorted, loose. (damp) |
| 13 | 6 | 13-15 | 18 | 13, 15, 15, 18 | 0.0 | |
| 14 | | | | | | (15-17') Tan-Light Brown coarse Sand, abundant subrounded f-m gravel, loose, some medium sand, poorly sorted |
| 15 | 7 | 15-17 | 15" | 19, 16, 18, 17 | 0.0 | |
| 16 | | | | | | (17-19') 0-8" Brown coarse Sand, gravel, well sorted Tan fine Sand. |
| 17 | 8 | 17-19 | 15" | 13, 14, 14, 14 | 0.0 | |
| 18 | | | | | | (19-21') Tan coarse Sand gtz, abundant sub rounded - subangular gravel, poorly sorted, trace fine-medium sand. (damp) |
| 19 | 9 | 19-21 | 18" | 15, 17, 19, 22 | 0.0 | |
| 20 | | | | | | END OF Boring AT 21 FT |

| | |
|-------------------------|--|
| Remarks: | Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____ |
|-------------------------|--|

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-II
Project Name: Glumman Bldg

Well/Boring No.: DSAC1
Sheet 1 of 1
By: KSL Date: 9/13/96
Chk'd: _____ Date: _____

Drilling Contractor: John Emington
Driller: Dennis Geologist: Keith Robins
Drill Rig: CME 75 Drilling Method: SPLITSPWN
Sample Spoon I.D.: 2 inch Drive Hammer Wt.: 140 lbs
Date Started: 9/13/96 Date Completed: 9/13/96

Borehole Completion Depth: 4 FT
Borehole Diameter: 2 inch
Ground Surface El.: _____

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|----------|-----------------|--|
| 0 | 1 | 0-2 | 24" | 8, 9, | - | 0-3" Asphalt |
| -1 | | | | 11, 11 | | 3"-24" Dark Brown fmc Sand, little silt, f-m subrd gravel, very (moist) |
| -2 | 2 | 2-4 | 18" | 37, 38 | - | (2-4') Brown - Light Tan coarse Sand and gravel, crushed, some stones, (dry) |
| -3 | | | | 28, 24 | | |
| -4 | | | | | | END OF Boring 4 FT |
| -5 | | | | | | |
| -6 | | | | | | |
| -7 | | | | | | |
| -8 | | | | | | |
| -9 | | | | | | |
| -10 | | | | | | |

Remarks: Soil samples (0-2) (2-4) sent to for lab analysis

Water Level Measurement

| | |
|-------|------------|
| _____ | Date _____ |
| _____ | Date _____ |
| _____ | Date _____ |
| _____ | Date _____ |

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

| | |
|-----------------------------|-------------------------------------|
| Project No.: <u>1167-II</u> | Well/Boring No.: <u>DSAC2</u> |
| Project Name: <u>GRUMAN</u> | Sheet <u>1</u> of <u>1</u> |
| <u>Bld 31</u> | By: <u>KSR</u> Date: <u>9/13/96</u> |
| | Chk'd: _____ Date: _____ |

| | |
|--|--|
| Drilling Contractor: <u>John Emington</u> | Borehole Completion Depth: <u>4 FT</u> |
| Driller: <u>Dennis</u> Geologist: <u>Keith Robins</u> | Borehole Diameter: <u>2 inch</u> |
| Drill Rig: <u>cm 75</u> Drilling Method: <u>2 inch split spoon</u> | Ground Surface El.: _____ |
| Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: <u>140 lbs.</u> | |
| Date Started: <u>9/13/96</u> Date Completed: <u>9/13/96</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|-------------------|-----------------|---|
| 0 | | | | | | 0-3" Asphalt |
| -1 | 1 | 0-2 | 18" | 12, 13, 15, 15 | - | (0-2') 3"-10" Brown silty sand, some gravel 10"-18" clayey sand, trace gravel |
| -2 | | | | | | |
| -3 | 2 | 2-4 | 15" | 25, 25, 27, 28 | - | (2-4') Brown coarse sand, some gravel, stones, poorly sorted, trace silt. (damp-dry) |
| -4 | | | | | | |
| -5 | | | | | | END OF Boring at 4 FT |
| -6 | | | | | | |
| -7 | | | | | | |
| -8 | | | | | | |
| -9 | | | | | | |
| -10 | | | | | | |

| | |
|--|--|
| Remarks: <u>Samples (0-2) (2-4) selected for laboratory analysis</u> | Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____ |
|--|--|

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

| | |
|-----------------------------------|-------------------------------------|
| Project No.: <u>1167-II</u> | Well/Boring No.: <u>DSAC3</u> |
| Project Name: <u>Bl 31/Gumman</u> | Sheet: <u>1</u> of <u>1</u> |
| | By: <u>KSE</u> Date: <u>9/13/96</u> |
| | Chk'd: _____ Date: _____ |

| | |
|---|--|
| Drilling Contractor: <u>John Emington</u> | Borehole Completion Depth: <u>4 FT</u> |
| Driller: <u>Dennis</u> Geologist: <u>Keith Robins</u> | Borehole Diameter: <u>2 inch</u> |
| Drill Rig: <u>CMEK</u> Drilling Method: <u>2 inch split spoon</u> | Ground Surface El.: _____ |
| Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: <u>145 lbs</u> | |
| Date Started: <u>9/13/96</u> Date Completed: <u>9/13/96</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|------------------|-----------------|---|
| 0 | | | | | | Asphalt 0-2" |
| -1 | 1 | 0-2 | 18" | 14, 16 17, 18 | - | (0-2') Brown coarse sand and gravel grading into Black - Brown subrounded f-c gravel, trace metal, silt. (damp) |
| -2 | | | | | | |
| -3 | 2 | 2-4 | 18" | 11, 9, 8, 7 | - | (2-4') 0-12" Brown silty sand, some - little gravel 12"-15" Gray - Brown clay, some silt. 15"-18" Brown medium sand, trace - little gravel, dark black silt in tip of spoon (slight organic bdr) |
| -4 | | | | | | |
| -5 | | | | | | |
| -6 | | | | | | |
| -7 | | | | | | |
| -8 | | | | | | |
| -9 | | | | | | |
| -10 | | | | | | |
| | | | | | | END OF Boring AT 4 FT |

| | |
|--|--|
| Remarks: Soil samples (0-2) (2-4) selected for laboratory analysis | Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____ |
|--|--|

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

| | |
|--------------------------------------|------------------------------|
| Project No.: <u>1167-IF</u> | Well/Boring No.: <u>UCBD</u> |
| Project Name: <u>Grumman Bldg 31</u> | Sheet 1 of <u>1</u> |
| | By: _____ Date: _____ |
| | Chk'd: _____ Date: _____ |

| | |
|---|--|
| Drilling Contractor: <u>John Emorydon</u> | Borehole Completion Depth: <u>4 FT</u> |
| Driller: <u>Dennis</u> Geologist: <u>Keith Robins</u> | Borehole Diameter: <u>2 inch</u> |
| Drill Rig: <u>CME75</u> Drilling Method: <u>Split Spoon</u> | Ground Surface El.: _____ |
| Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: <u>140 lbs</u> | |
| Date Started: <u>9/13/96</u> Date Completed: <u>9/18/96</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|----------------|-----------------|---|
| 0 | | | | | | |
| -1 | 1 | 0-2 | 12" | 21,19 16,26 | - | (0-2") 0-2" asphalt 2"-12" Brown - Dark Brown fine-medium sand, little silt, trace clay, little f-m subnd gravel, damp. |
| -2 | | | | | | |
| -3 | 2 | 2-4 | 14" | 16,14 12,12 | - | (2'-4') 0-4" Dark Brown silty sand, some fine gravel, moist 4"-14" Brown - Light orange coarse sand, some gravel |
| -4 | | | | | | |
| -5 | | | | | | |
| -6 | | | | | | |
| -7 | | | | | | |
| -8 | | | | | | |
| -9 | | | | | | |
| -10 | | | | | | |

| | |
|--|--|
| Remarks: <u>Soil samples (0-2) (2-4) selected for lab analysis.</u> | Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____ |
|--|--|

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

| | |
|--|---|
| Project No.: <u>1167-II</u> Project Name: <u>Grumman Bld 31</u> | Well/Boring No.: <u>FE5A</u> Sheet <u>1</u> of <u>1</u> By: <u>KSR</u> Date: <u>9/13/96</u> Chk'd: _____ Date: _____ |
|--|---|

| | |
|--|---|
| Drilling Contractor: <u>John Emington</u> Driller: <u>Dennis</u> Geologist: <u>Keith Robins</u> Drill Rig: <u>CME75</u> Drilling Method: <u>Split Spun</u> Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: <u>140 lbs</u> Date Started: <u>9/13/96</u> Date Completed: <u>9/13/96</u> | Borehole Completion Depth: <u>4 FT</u> Borehole Diameter: <u>2 inch</u> Ground Surface El.: _____ |
|--|---|

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|----------------|----------|-----------------|---|
| 0 | | | | | | (0-2') 0-12" Dark Brown-Black clayey Sand, tr fine gravel |
| -1 | 1 | 0-2 | 4,4 4,10 | 24" | - | 12"-24" (moist) Brown-orange coarse-medium Sand, fine gravel, poorly sorted |
| -2 | | | | | | (damp) |
| -3 | 2 | 2-4 | 27,25 28,32 | 15" | - | (2-4') Light Tan fty fine-medium Sand, trace fine gravel, well sorted. |
| -4 | | | | | | (dry-damp) |
| -5 | | | | | | END OF BORING AT 4 FT |
| -6 | | | | | | |
| -7 | | | | | | |
| -8 | | | | | | |
| -9 | | | | | | |
| -10 | | | | | | |

| | |
|----------------|--|
| Remarks: _____ | Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____ |
|----------------|--|

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

| | |
|-------------------------------------|-------------------------------------|
| Project No.: <u>1167-II</u> | Well/Boring No.: <u>TARP</u> |
| Project Name: <u>GUMMAN Bldg 31</u> | Sheet <u>1</u> of <u>1</u> |
| | By: <u>KLR</u> Date: <u>9/13/96</u> |
| | Chk'd: _____ Date: _____ |

| | |
|--|--|
| Drilling Contractor: <u>John Emington</u> | Borehole Completion Depth: <u>4 FT</u> |
| Driller: <u>Dennis</u> Geologist: <u>Keith Robins</u> | Borehole Diameter: <u>2 inch</u> |
| Drill Rig: <u>CME 25</u> Drilling Method: <u>split spoon</u> | Ground Surface El.: _____ |
| Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: <u>140 lbs.</u> | |
| Date Started: <u>9/13/96</u> Date Completed: <u>9/13/96</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/ RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|------------------|------------------|-----------------|---|
| 0 | | | | | | |
| -1 | 1 | 0-2 | 6" | 10, 7 9, 13 | - | (0-2') 0-2" Asphalt 2"-6" Brown silty fine-medium Sand, little gravel. (moist) trace large stones |
| -3 | 2 | 2-4 | 12" | 40, 41 60, 62 | - | (2-4') Brown - Light orange sand, abundant gravel, fine-medium size, poorly sorted, loose, some fine-medium sand, crushed stone. (dry) |
| -4 | | | | | | |
| -5 | | | | | | |
| -6 | | | | | | |
| -7 | | | | | | |
| -8 | | | | | | |
| -9 | | | | | | |
| -10 | | | | | | |
| | | | | | | END OF Boring AT 4 FT |

| | |
|--|--|
| Remarks: Soil samples (0-2) (2-4) selected for lab analysis | Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____ |
|--|--|

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

| | |
|--------------------------------------|-------------------------------------|
| Project No.: <u>1167-II</u> | Well/Boring No.: <u>HVAC</u> |
| Project Name: <u>Crumman Bldg 31</u> | Sheet <u>1</u> of <u>1</u> |
| | By: <u>RSK</u> Date: <u>9/16/96</u> |
| | Chk'd: _____ Date: _____ |

| | |
|--|---------------------------------------|
| Drilling Contractor: <u>John Emeryton</u> | Borehole Completion Depth: <u>14'</u> |
| Driller: <u>Wally</u> Geologist: <u>Keith Robins</u> | Borehole Diameter: <u>2 inch</u> |
| Drill Rig: <u>Hammer Automatic</u> Drilling Method: <u>Geoprobe Hammer</u> | Ground Surface El.: _____ |
| Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: <u>Hammer drill</u> | |
| Date Started: <u>9/16/96</u> Date Completed: <u>9/16/96</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|----------|-----------------|--|
| 0 | | | | | | 0-10' void, no sampling |
| 1 | 1 | 10-12 | 12" | - | - | (10-12') 0-2" Brown moist clayey sand |
| 2 | 2 | 12-14 | 12" | - | - | 2"-12" Brown-Orange coarse medium sand, trace fine stones |
| 3 | | | | | | (12-14') Orange-Brown coarse to medium sand, some gravel, stones. (damp) |
| 4 | | | | | | END OF Boring AT 14 FT |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

| | |
|---|--|
| Remarks: Soil samples (10-12) (12-14) from bottom of drain collected for lab analysis | Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____ |
|---|--|

BORING LOG



**DVIRKA
AND
BARTILUCCI**

| | |
|-------------------------------------|-------------------------------------|
| Project No.: <u>1167-II</u> | Well/Boring No.: <u>WCSI</u> |
| Project Name: <u>Glumman Bld 31</u> | Sheet <u>1</u> of <u>1</u> |
| | By: <u>KSR</u> Date: <u>9/16/96</u> |
| | Chk'd: _____ Date: _____ |

| | |
|---|--|
| Drilling Contractor: <u>John Emington</u> | Borehole Completion Depth: <u>4 FT</u> |
| Driller: <u>Dennis</u> Geologist: <u>Keith Robins</u> | Borehole Diameter: <u>2 inch</u> |
| Drill Rig: <u>Geoprobe Hammer</u> Drilling Method: <u>Geoprobe Hammer Drill</u> | Ground Surface El.: _____ |
| Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: _____ | |
| Date Started: <u>9/16/96</u> Date Completed: <u>9/16/96</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|----------|-----------------|--|
| 0 | | | | | | |
| -1 | 1 | 0-2 | 12" | - | - | (0-2') Dark Brown coarse to medium sand, some - little black sand silt, white subangular gtz gravel (damp) |
| -2 | | | | | | |
| -3 | 2 | 2-4 | 18" | - | - | (2-4') Brown - Dark Brown coarse to medium sand, poorly sorted, trace gravel, silt. (damp) |
| -4 | | | | | | |
| -5 | | | | | | END OF Boring AT 4 FT |
| -6 | | | | | | |
| -7 | | | | | | |
| -8 | | | | | | |
| -9 | | | | | | |
| -10 | | | | | | |

| | |
|--|--|
| Remarks: <u>Soil samples (0-2) (2-4) selected for laboratory analysis</u> | Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____ |
|--|--|

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

| | |
|-------------------------------------|-------------------------------------|
| Project No.: <u>1167-II</u> | Well/Boring No.: <u>WC52</u> |
| Project Name: <u>Gruman Bldg 31</u> | Sheet 1 of <u>1</u> |
| | By: <u>KSR</u> Date: <u>9/16/96</u> |
| | Chk'd: _____ Date: _____ |

| | |
|---|--|
| Drilling Contractor: <u>John Emington</u> | Borehole Completion Depth: <u>4 FT</u> |
| Driller: <u>Dennis</u> Geologist: <u>Keith Robins</u> | Borehole Diameter: <u>2 inch</u> |
| Drill Rig: <u>Geoprobe Hammer</u> Drilling Method: <u>Geoprobe hammer drill</u> | Ground Surface El.: _____ |
| Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: _____ | |
| Date Started: <u>9/16/96</u> Date Completed: <u>9/16/96</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|----------|-----------------|---|
| 0 | | | | | | |
| -1 | 1 | 0-2 | 18" | - | - | (0-2') Dark Brown - Black coarse to medium sand, some gravel, trace silt, orange f-m sand, trace silt. (dump) |
| -2 | | | | | | |
| -3 | 2 | 2-4 | 18" | - | - | (2-4') Brown-Orange coarse to medium gtz sand, some subangular gravel, trace dark Brown-Black sand. (dump) |
| -4 | | | | | | |
| -5 | | | | | | |
| -6 | | | | | | END OF BORING AT 4 FT |
| -7 | | | | | | |
| -8 | | | | | | |
| -9 | | | | | | |
| -10 | | | | | | |

| | |
|--|--|
| Remarks: Soil samples selected at (0-2) (2-4) for lab analysis | Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____ |
|--|--|

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-II
Project Name: Gruman Building 31

Well/Boring No.: TAB
Sheet 1 of 1
By: KSR Date: 9/16/96
Chk'd: _____ Date: _____

Drilling Contractor: John Emington
Driller: Dennis Geologist: Keith Robins
Drill Rig: Geoprobe Drilling Method: Geo probe
Sample Spoon I.D.: 2 inch Drive Hammer Wt.: _____
Date Started: 9/16/96 Date Completed: 9/16/96

Borehole Completion Depth: 4 FT
Borehole Diameter: 2 inch
Ground Surface El.: _____

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|----------|-----------------|--|
| 0 | | | | | | |
| -1 | 1 | 0-2 | 15" | - | - | (0-2') Orange - Brown coarse Sand and fine - medium subangular gravel. (damp dry) |
| -2 | | | | | | |
| -3 | 2 | 2-4 | 15" | - | - | (2-4') Orange - Brown coarse sand, some f-m gravel, trace Silt, poorly sorted. (dry) |
| -4 | | | | | | |
| -5 | | | | | | |
| -6 | | | | | | END OF Boring at 4 FT |
| -7 | | | | | | |
| -8 | | | | | | |
| -9 | | | | | | |
| -10 | | | | | | |

Remarks:
Samples from (0-2) (2-4)
Chosen for lab analysis

Water Level Measurement

| | | |
|-------|------|-------|
| _____ | Date | _____ |
| _____ | Date | _____ |
| _____ | Date | _____ |
| _____ | Date | _____ |

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-II
Project Name: GRUMAN Bldg 31

Well/Boring No.: TAC
Sheet 1 of 1
By: KSR Date: 9/16/96
Chk'd: _____ Date: _____

Drilling Contractor: John Emington
Driller: Dennis Geologist: Keith Robins
Drill Rig: Geoprobe Drilling Method: Geoprobe
Sample Spoon I.D.: 2 inch Drive Hammer Wt.: _____
Date Started: 9/16/96 Date Completed: 9/16/96
Borehole Completion Depth: 4 FT
Borehole Diameter: 2 inch
Ground Surface El.: ~

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|----------|-----------------|--|
| 0 | | | | | | |
| -1 | 1 | 0-2 | 15" | - | - | (0-2') 0-5" Black silty sand, trace gravel. 5"-15" Brown-Light Orange coarse sand, some gravel, moist/wet |
| -2 | | | | | | |
| -3 | 2 | 2-4 | 20" | - | - | (2-4') Brown - Light Brown medium grtz. sand, little f-m gravel, trace silt. (very moist) |
| -4 | | | | | | |
| -5 | | | | | | |
| -6 | | | | | | END OF Boring AT 4 FT |
| -7 | | | | | | |
| -8 | | | | | | |
| -9 | | | | | | |
| -10 | | | | | | |

Remarks: (0-2) (2-4) Samples selected for lab analyses

Water Level Measurement

| | |
|-------|------------|
| _____ | Date _____ |
| _____ | Date _____ |
| _____ | Date _____ |
| _____ | Date _____ |

BL

BORING LOG



| | |
|--------------------------------------|-------------------------------------|
| Project No.: <u>1167-II</u> | Well/Boring No.: <u>OWS</u> |
| Project Name: <u>Grumman Bldg 31</u> | Sheet <u>1</u> of <u>1</u> |
| | By: <u>KSR</u> Date: <u>9/16/96</u> |
| | Chk'd: _____ Date: _____ |

| | |
|---|---------------------------------------|
| Drilling Contractor: <u>John Emington</u> | Borehole Completion Depth: <u>20'</u> |
| Driller: <u>Dennis</u> Geologist: <u>Keith Robins</u> | Borehole Diameter: <u>4 1/4 HSA</u> |
| Drill Rig: <u>CME 25</u> Drilling Method: <u>4 1/4 HSA</u> | Ground Surface El.: _____ |
| Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: <u>140 lbs</u> | |
| Date Started: <u>9/16/96</u> Date Completed: <u>9/16/96</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|------------------|-----------------|---|
| 0 | | | | | | No soil sampling (0-16') |
| 1-10 | | | | | | 0-10' Medium Brown coarse sand, some stones. |
| 10-12 | | | | | | AT 10' Large gravel |
| 12-14 | | | | | | AT 14' Dark Brown sand and cobbles |
| 14-16 | | | | | | |
| 16-18 | 1 | 16-18 | 4" | 38, 22 26, 32 | 0, 0 | (16-18) Light Tan coarse sand, some cobbles, gravel, poorly sorted |
| 18-20 | 2 | 18-20 | 24" | 22, 17 19, 22 | 0, 0 | (18-20) Brown - light Tan coarse sand and gravel, stones, cobbles, loose, little fm sand- |
| 20 | | | | | | END OF BORING AT 20 FT |

| | |
|--|--|
| Remarks: adjacent to oil/water separator bottom of drain at 15 FT below grade Samples (16-18) (18-20) / sent for lab analysis | Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____ |
|--|--|

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-II
Project Name: Grumman Blvd

Well/Boring No.: ETL1
Sheet 1 of 1
By: KSR Date: 9/16/96
Chk'd: _____ Date: _____

Drilling Contractor: John Emington
Driller: Dennis/Willy Geologist: Keith Robins
Drill Rig: _____ Drilling Method: _____
Sample Spoon I.D.: 2 inch Drive Hammer Wt.: 140 lbs
Date Started: 9/16/96 Date Completed: 9/16/96

Borehole Completion Depth: 4 FT
Borehole Diameter: 2 inch
Ground Surface El.: _____

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|----------|-----------------|---|
| 0 | | | | | | |
| -1 | 1 | 0-2 | 15" | - | - | (0-2') Light Tan-orange medium gtz Sand, some angular gravel, trace silt. (dry) |
| -2 | | | | | | |
| -3 | 2 | 2-4 | 15" | - | - | (2-4') Light Tan-orange coarse-med. gtz Sand, some - little fine gravel, dry. |
| -4 | | | | | | |
| -5 | | | | | | |
| -6 | | | | | | |
| -7 | | | | | | |
| -8 | | | | | | |
| -9 | | | | | | |
| -10 | | | | | | |

END OF Boring AT 4 FT

Remarks:
Soil sample selected for lab analysis (0-2) (2-4)

Water Level Measurement

| | |
|-------|------------|
| _____ | Date _____ |
| _____ | Date _____ |
| _____ | Date _____ |
| _____ | Date _____ |

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-IF
Project Name: Grumman Bld 31

Well/Boring No.: ETL2
Sheet 1 of 1
By: KSR Date: 9/16/96
Chk'd: _____ Date: _____

Drilling Contractor: John Emington
Driller: Dennis Geologist: Keith Robins
Drill Rig: Earthprobe Drilling Method: Geoprobe sampler
Sample Spoon I.D.: 2 inch Drive Hammer Wt.: _____
Date Started: 9/16/96 Date Completed: 9/16/96

Borehole Completion Depth: 4 FT
Borehole Diameter: 2 inch
Ground Surface El.: _____

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/ RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|------------------|----------|-----------------|---|
| 0 | | | | | | |
| -1 | 1 | 0-2 | 24" | - | - | (0-2') Light Tan-Orange coarse Sand, some fine-medium gty angular gravel. (dry) |
| -2 | | | | | | |
| -3 | | | | | | |
| -4 | 2 | 2-4 | 24" | - | - | (2-4') Light Tan-Orange coarse Sand some f-m gravel size. (dry). |
| -5 | | | | | | |
| -6 | | | | | | |
| -7 | | | | | | END OF Boring at 4 FT |
| -8 | | | | | | |
| -9 | | | | | | |
| -10 | | | | | | |

Remarks:
Soil samples (0-2) (2-4) chosen for lab analysis

Water Level Measurement

| | | |
|-------|------|-------|
| _____ | Date | _____ |
| _____ | Date | _____ |
| _____ | Date | _____ |
| _____ | Date | _____ |

BL

BORING LOG



| | |
|-------------------------------------|-------------------------------------|
| Project No.: <u>1167-II</u> | Well/Boring No.: <u>RB-1</u> |
| Project Name: <u>Grumman Bld 31</u> | Sheet <u>1</u> of <u>3</u> |
| | By: <u>KSR</u> Date: <u>9/13/96</u> |
| | Chk'd: _____ Date: _____ |

| | |
|---|---------------------------------------|
| Drilling Contractor: <u>John Emington</u> | Borehole Completion Depth: <u>67'</u> |
| Driller: <u>Dennis</u> Geologist: <u>Keith Robins</u> | Borehole Diameter: <u>8 inch</u> |
| Drill Rig: <u>CME 75</u> Drilling Method: <u>HSA 4 1/4</u> | Ground Surface El.: _____ |
| Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: <u>140 lbs</u> | |
| Date Started: <u>9/13/96</u> Date Completed: <u>9/13/96</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) <small>OVA</small> | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|------------------|---------------------------------------|---|
| 0 | | | | | | |
| 2 | | | | | | |
| 4 | 1 | 5-7 | 12" | 13, 27 30, 32 | 0 | (5-7') Brown coarse m-f sand and gravel, Stone- (dry) <u>Fill</u> |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | 2 | 10-12 | 2" | 18, 17 21, 23 | - | (10-12') Brown-orange c-m Sand, and gravel, stones, cobbles <u>Fill</u> |
| 12 | | | | | | |
| 14 | 3 | 15-17 | 18" | 20, 22 23, 18 | 0 | (15-17') Brown-DK fine-medium Sand, crushed gravel, tr roots, <u>Fill</u> |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |

| | |
|----------|--|
| Remarks: | Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____ |
|----------|--|

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

| | |
|----------------------------------|-------------------------------------|
| Project No.: <u>1167 -II</u> | Well/Boring No.: <u>RB-1</u> |
| Project Name: <u>Gummer Blvd</u> | Sheet <u>2</u> of <u>3</u> |
| | By: <u>KSR</u> Date: <u>9/13/96</u> |
| | Chk'd: _____ Date: _____ |

| | |
|---|---|
| Drilling Contractor: <u>John Emington</u> | Borehole Completion Depth: <u>67 FT</u> |
| Driller: <u>Dennis</u> Geologist: <u>Keith Robins</u> | Borehole Diameter: <u>8 inch</u> |
| Drill Rig: <u>CM 75</u> Drilling Method: _____ | Ground Surface El.: _____ |
| Sample Spoon I.D.: <u>1 inch</u> Drive Hammer Wt.: _____ | |
| Date Started: <u>9/13/96</u> Date Completed: <u>9/13/96</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/ RQD | BLOWS/6" | HEADSPACE (PPM) OVA | SAMPLE DESCRIPTION | |
|-------------|------------|-------------------|------------------|----------|---------------------------|---|------|
| 20 | 4 | 20-22 | 12" | 15,17 | 0.0 | (20'-22') Dark Brown coarse sand and subrd gravel, 2 inch black silt seam at 21.8' (possibly bottom of basin) | |
| 22 | | | | 13,14 | | | Fill |
| 24 | | | | | | | |
| 26 | 5 | 25-27 | 12" | 15,17 | 0.0 | (25'-27') 0-8" Light Tan coarse sand and gravel, poorly sorted. 8"-12" Light Tan m-f gtz well sorted. Sand trace silt <u>NATIVE</u> | |
| 28 | | | | 15,20 | | | |
| 30 | 6 | 30-32 | 10" | 13,15 | 0.0 | (30'-32') Light Tan fine-medium gtz sand, well sorted, with Brown horizontal banding, trace iron staining, trace silt. | |
| 32 | | | | 15,17 | | | |
| 34 | 7 | 35-37 | 15" | 13,14 | 0.0 | (35-37) Light Tan medium-fine gtz well graded sand, trace fm subrd gravel. | |
| 36 | | | | 14,12 | | | |
| 38 | | | | | | | |
| 40 | | | | | | | |

| | | | | | | | | | | | | | |
|---|---|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|
| Remarks: Bottom of Former Backfilled Recharge Basin approximately 22 FT below grade | Water Level Measurement <table style="width: 100%;"> <tr><td>_____</td><td>Date</td><td>_____</td></tr> <tr><td>_____</td><td>Date</td><td>_____</td></tr> <tr><td>_____</td><td>Date</td><td>_____</td></tr> <tr><td>_____</td><td>Date</td><td>_____</td></tr> </table> | _____ | Date | _____ | _____ | Date | _____ | _____ | Date | _____ | _____ | Date | _____ |
| _____ | Date | _____ | | | | | | | | | | | |
| _____ | Date | _____ | | | | | | | | | | | |
| _____ | Date | _____ | | | | | | | | | | | |
| _____ | Date | _____ | | | | | | | | | | | |

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

| | |
|-----------------------------|---|
| Project No.: <u>1167-II</u> | Well/Boring No.: <u>RB-1</u> |
| Project Name: <u>Summer</u> | Sheet <u>4</u> of <u>3</u> |
| | By: <u>[Signature]</u> Date: <u>9/13/91</u> |
| | Chk'd: _____ Date: _____ |

| | |
|---|---------------------------------------|
| Drilling Contractor: <u>John Emeryan</u> | Borehole Completion Depth: <u>65'</u> |
| Driller: <u>Deane</u> Geologist: <u>Keith Rubino</u> | Borehole Diameter: <u>8 inch</u> |
| Drill Rig: <u>CME 25</u> Drilling Method: <u>4/4 H.S.A</u> | Ground Surface El.: <u>—</u> |
| Sample Spoon I.D.: <u>2 inch</u> Drive Hammer Wt.: <u>170</u> | |
| Date Started: <u>9/13/91</u> Date Completed: <u>9/13/91</u> | |

| DEPTH (FT.) | SAMPLE NO. | SAMPLING INTERVAL | RECOVERY/RQD | BLOWS/6" | HEADSPACE (PPM) | SAMPLE DESCRIPTION |
|-------------|------------|-------------------|--------------|------------------|-----------------|---|
| 4-0 | 8 | 40-42 | 15" | 15, 12 14, 8 | 0.0 | (40-42) Light Tan c-m sand, some gravel poorly sorted, grading into LT Tan fine damp sand |
| 4-2 | | | | | | |
| 4-4 | 9 | 45-47 | 24" | 28, 31 32, 30 | 0.0 | (45-47) Brown-Light Brown c-m Sand, abundant gravel, trace silt |
| 4-6 | | | | | | |
| 4-8 | | | | | | (50-52) Light Tan - Orange fine Sand, little silt, thin lamination |
| 5-0 | 10 | 50-52 | 12" | 9, 8 9, 6 | 0.0 | (55-57) 0-12" orange-brown fm Sand well sorted 12"-15" LT Tan-white fm Sand moist |
| 5-2 | | | | | | |
| 5-4 | 11 | 55-57 | 15" | 15, 18 19, 22 | 0.0 | (60-62) Orange fine Sand/grading into Gray fine Sand, little silt |
| 5-6 | | | | | | |
| 5-8 | 12 | 60-62 | 12" | 20, 19 22, 20 | 0.0 | (65-67) Tan-Orange fine Sand with Gray-Brown silt, saturated |
| 6-0 | | | | | | |
| 6-5 | 13 | 65-67 | 24" | 14, 14 16, 14 | 0.0 | END OF Boring 67' |

| | | | | | | | | | |
|---|---|-------|------------|-------|------------|-------|------------|-------|------------|
| Remarks: Water Table ≈ (62-65') | Water Level Measurement <table style="width: 100%; border-collapse: collapse;"> <tr><td>_____</td><td>Date _____</td></tr> <tr><td>_____</td><td>Date _____</td></tr> <tr><td>_____</td><td>Date _____</td></tr> <tr><td>_____</td><td>Date _____</td></tr> </table> | _____ | Date _____ | _____ | Date _____ | _____ | Date _____ | _____ | Date _____ |
| _____ | Date _____ | | | | | | | | |
| _____ | Date _____ | | | | | | | | |
| _____ | Date _____ | | | | | | | | |
| _____ | Date _____ | | | | | | | | |

BL

Appendix C



APPENDIX C

LABORATORY DATA

◆1167Y0927601.DOC(R02)

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000023

PLMW-1

Lab Name: IEA-NJ

Job No. : 64204

Matrix: (soil/water) Water

Lab Sample ID: 64204001

Sample wt/vol: 5 (g/mL) ml

Lab File ID: >EH313

Level: (low/med) LOW

Date Received: 09/24/96

% Moisture: not dec. _____

Date Analyzed: 09/30/96

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/l</u> | Q |
|------------|----------------------------|---|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000024

PLMW-1

Lab Name: IEA-NJ

Job No. : 64204

Matrix: (soil/water) Water

Lab Sample ID: 64204001

Sample wt/vol: 5 (g/mL) ml

Lab File ID: >EH313

Level: (low/med) LOW

Date Received: 09/24/96

% Moisture: not dec.

Date Analyzed: 09/30/96

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| 01. | | | | |
| 02. | | | | |
| 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. | | | | |

FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000027

FB-1GW

Lab Name: IEA-NJ

Job No. : 64204

Matrix: (soil/water) Water

Lab Sample ID: 64204002

Sample wt/vol: 5 (g/mL) ml

Lab File ID: >EH311

Level: (low/med) LOW

Date Received: 09/24/96

% Moisture: not dec. _____

Date Analyzed: 09/30/96

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/l</u> | Q |
|------------|----------------------------|---|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000028

FB-1GW

Lab Name: IEA-NJ

Job No. : 64204

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/mL) ml

Level: (low/med) LOW

% Moisture: not dec.

GC Column: DB-624 ID: 0.53 (mm)

Soil Extract Volume: (uL)

Lab Sample ID: 64204002

Lab File ID: >EH311

Date Received: 09/24/96

Date Analyzed: 09/30/96

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| 01. | | | | |
| 02. | | | | |
| 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. | | | | |

FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

BLG30MW-1

Lab Name: IEA-NJJob No. : 64204Matrix: (soil/water) WaterLab Sample ID: 64204003Sample wt/vol: 5 (g/mL) mlLab File ID: >EH367Level: (low/med) LOWDate Received: 09/24/96% Moisture: not dec. Date Analyzed: 10/01/96GC Column: DB-624 ID: 0.53 (mm)Dilution Factor: 1.0Soil Extract Volume: (uL)Soil Aliquot Volume: (uL)CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO. COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/l</u> | Q |
|------------|----------------------------|---|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 2 | J |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000032

BLG30MW-1

Lab Name: IEA-NJ

Job No. : 64204

Matrix: (soil/water) Water

Lab Sample ID: 64204003

Sample wt/vol: 5 (g/mL) ml

Lab File ID: >EH367

Level: (low/med) LOW

Date Received: 09/24/96

% Moisture: not dec. _____

Date Analyzed: 10/01/96

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| 01. | | | | |
| 02. | | | | |
| 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. | | | | |

FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000036

TB-1

Lab Name: IEA-NJ

Job No. : 64204

Matrix: (soil/water) Water

Lab Sample ID: 64204004

Sample wt/vol: 5 (g/mL) ml

Lab File ID: >EH312

Level: (low/med) LOW

Date Received: 09/24/96

% Moisture: not dec. _____

Date Analyzed: 09/30/96

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|----------------------------|---------------|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000037

TB-1

Lab Name: IEA-NJ

Job No. : 64204

Matrix: (soil/water)Water

Lab Sample ID: 64204004

Sample wt/vol: 5 (g/mL)ml

Lab File ID: >EH312

Level: (low/med) LOW

Date Received: 09/24/96

% Moisture: not dec.

Date Analyzed: 09/30/96

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| 01. | | | | |
| 02. | | | | |
| 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. | | | | |

FORM I VOA-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000143

PLMW-1

Lab Name: IEA-NJJob No. : 64204Matrix: (soil/water) WaterLab Sample ID: 64204001Sample wt/vol: 1000 (g/mL) mlLab File ID: G7149Level: (low/med) LOWDate Received: 09/24/96% Moisture: decanted: (Y/N) Date Extracted: 09/24/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/08/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/l</u> | Q |
|----------|------------------------------|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

000144
PLMW-1

Lab Name: IEA-NJ

Job No. : 64204

Matrix: (soil/water) Water

Lab Sample ID: 64204001

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

Lab File ID: G7149

Level: (low/med) LOW

Date Received: 09/24/96

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

Date Extracted: 09/24/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/08/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

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

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/l</u> | Q |
|-----------|------------------------------|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo (a) Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 10 | U |
| 117-84-0 | Di-n-Octylphthalate | 10 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 10 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 10 | U |
| 50-32-8 | Benzo (a) Pyrene | 10 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 10 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 10 | U |
| 191-24-2 | Benzo (q, h, i) Perylene | 10 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000147

FB-1GW

Lab Name: IEA-NJJob No. : 64204Matrix: (soil/water) WaterLab Sample ID: 64204002Sample wt/vol: 1000 (g/mL) mlLab File ID: G7150Level: (low/med) LOWDate Received: 09/24/96

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

Date Extracted: 09/24/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/08/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: _____CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/l</u> | Q |
|----------|------------------------------|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000148

FB-1GW

Lab Name: IEA NJ

Job No. : 64204

Matrix: (soil/water) Water

Lab Sample ID: 64204002

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

Lab File ID: G7150

Level: (low/med) LOW

Date Received: 09/24/96

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

Date Extracted: 09/24/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/08/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

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

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/l</u> | Q |
|-----------|-----------------------------|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo (a) Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 10 | U |
| 117-84-0 | Di-n-Octylphthalate | 10 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 10 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 10 | U |
| 50-32-8 | Benzo (a) Pyrene | 10 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 10 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 10 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 10 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000151

BLG30MW-1

Lab Name: IEA-NJJob No. : 64204Matrix: (soil/water) WaterLab Sample ID: 64204003Sample wt/vol: 1000 (g/mL) mlLab File ID: G7151Level: (low/med) LOWDate Received: 09/24/96% Moisture: decanted: (Y/N) Date Extracted: 09/24/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/08/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/l</u> | Q |
|----------|------------------------------|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000152

BLG30MW-1

Lab Name: IEA-NJ

Job No. : 64204

Matrix: (soil/water) Water

Lab Sample ID: 64204003

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

Lab File ID: G7151

Level: (low/med) LOW

Date Received: 09/24/96

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

Date Extracted: 09/24/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/08/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

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

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/l</u> | Q |
|-----------|-----------------------------|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 10 | U |
| 117-84-0 | Di-n-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(b) Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k) Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a) Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd) Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i) Perylene | 10 | U |

FORM I SV-2



Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64204001
Matrix: Water

Units: ug/l

Client ID: PLMW-1
Sample Date: 09/23/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|-------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/26/96 20:53 | 2.53 | U | 2.53 | 6.00 | 1.00 | WG7055 |
| 7440-38-2 | Arsenic | ICP-TR | 09/26/96 20:53 | 35.7 | | 3.02 | 8.00 | 1.00 | WG7055 |
| 7440-41-7 | Beryllium | ICP-TR | 09/26/96 20:53 | 0.200 | U | 0.200 | 4.00 | 1.00 | WG7055 |
| 7440-43-9 | Cadmium | ICP-TR | 09/26/96 20:53 | 0.250 | U | 0.250 | 4.00 | 1.00 | WG7055 |
| 7440-47-3 | Chromium | ICP-TR | 09/26/96 20:53 | 31.0 | | 0.310 | 10.0 | 1.00 | WG7055 |
| 7440-50-8 | Copper | ICP-TR | 09/26/96 20:53 | 32.0 | | 0.980 | 10.0 | 1.00 | WG7055 |
| 7439-92-1 | Lead | ICP-TR | 09/26/96 20:53 | 12.7 | | 1.86 | 3.00 | 1.00 | WG7055 |
| 7439-97-6 | Mercury | CV | 10/02/96 09:06 | 0.200 | U | 0.200 | 0.200 | 1.00 | WG7130 |
| 7440-02-0 | Nickel | ICP-TR | 09/26/96 20:53 | 5.07 | B | 0.420 | 10.0 | 1.00 | WG7055 |
| 7782-49-2 | Selenium | ICP-TR | 09/26/96 20:53 | 3.00 | U | 3.00 | 5.00 | 1.00 | WG7055 |
| 7440-22-4 | Silver | ICP-TR | 09/26/96 20:53 | 0.270 | U | 0.270 | 10.0 | 1.00 | WG7055 |
| 7440-28-0 | Thallium | ICP-TR | 09/26/96 20:53 | 7.37 | U | 7.37 | 10.0 | 1.00 | WG7055 |
| 7440-66-6 | Zinc | ICP-TR | 09/26/96 20:53 | 36.9 | | 18.1 | 30.0 | 1.00 | WG7055 |

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



IEA
An Aquarion Company

Metals Analysis Results

000202

Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64204002

Matrix: Water

Units: ug/l

Client ID: FB-1GW

Sample Date: 09/23/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|-------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/26/96 20:58 | 2.53 | U | 2.53 | 6.00 | 1.00 | WG7055 |
| 7440-38-2 | Arsenic | ICP-TR | 09/26/96 20:58 | 3.02 | U | 3.02 | 8.00 | 1.00 | WG7055 |
| 7440-41-7 | Beryllium | ICP-TR | 09/26/96 20:58 | 0.200 | U | 0.200 | 4.00 | 1.00 | WG7055 |
| 7440-43-9 | Cadmium | ICP-TR | 09/26/96 20:58 | 0.250 | U | 0.250 | 4.00 | 1.00 | WG7055 |
| 7440-47-3 | Chromium | ICP-TR | 09/26/96 20:58 | 11.8 | | 0.310 | 10.0 | 1.00 | WG7055 |
| 7440-50-8 | Copper | ICP-TR | 09/26/96 20:58 | 3.15 | B | 0.980 | 10.0 | 1.00 | WG7055 |
| 7439-92-1 | Lead | ICP-TR | 09/26/96 20:58 | 1.86 | U | 1.86 | 3.00 | 1.00 | WG7055 |
| 7439-97-6 | Mercury | CV | 10/02/96 09:08 | 0.200 | U | 0.200 | 0.200 | 1.00 | WG7130 |
| 7440-02-0 | Nickel | ICP-TR | 09/26/96 20:58 | 0.910 | B | 0.420 | 10.0 | 1.00 | WG7055 |
| 7782-49-2 | Selenium | ICP-TR | 09/26/96 20:58 | 3.00 | U | 3.00 | 5.00 | 1.00 | WG7055 |
| 7440-22-4 | Silver | ICP-TR | 09/26/96 20:58 | 0.270 | U | 0.270 | 10.0 | 1.00 | WG7055 |
| 7440-28-0 | Thallium | ICP-TR | 09/26/96 20:58 | 7.37 | U | 7.37 | 10.0 | 1.00 | WG7055 |
| 7440-66-6 | Zinc | ICP-TR | 09/26/96 20:58 | 18.1 | U | 18.1 | 30.0 | 1.00 | WG7055 |

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit

Metals Analysis Results

000203

Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64204003

Matrix: Water

Units: ug/l

Client ID: BLG30MW-1

Sample Date: 09/23/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|-------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/26/96 21:04 | 2.53 | U | 2.53 | 6.00 | 1.00 | WG7055 |
| 7440-38-2 | Arsenic | ICP-TR | 09/26/96 21:04 | 44.9 | | 3.02 | 8.00 | 1.00 | WG7055 |
| 7440-41-7 | Beryllium | ICP-TR | 09/26/96 21:04 | 0.200 | U | 0.200 | 4.00 | 1.00 | WG7055 |
| 7440-43-9 | Cadmium | ICP-TR | 09/26/96 21:04 | 28.5 | | 0.250 | 4.00 | 1.00 | WG7055 |
| 7440-47-3 | Chromium | ICP-TR | 09/26/96 21:04 | 28.1 | | 0.310 | 10.0 | 1.00 | WG7055 |
| 7440-50-8 | Copper | ICP-TR | 09/26/96 21:04 | 28.5 | | 0.980 | 10.0 | 1.00 | WG7055 |
| 7439-92-1 | Lead | ICP-TR | 09/26/96 21:04 | 21.8 | | 1.86 | 3.00 | 1.00 | WG7055 |
| 7439-97-6 | Mercury | CV | 10/02/96 09:11 | 0.200 | U | 0.200 | 0.200 | 1.00 | WG7130 |
| 7440-02-0 | Nickel | ICP-TR | 09/26/96 21:04 | 3.64 | B | 0.420 | 10.0 | 1.00 | WG7055 |
| 7782-49-2 | Selenium | ICP-TR | 09/26/96 21:04 | 7.53 | | 3.00 | 5.00 | 1.00 | WG7055 |
| 7440-22-4 | Silver | ICP-TR | 09/26/96 21:04 | 0.270 | U | 0.270 | 10.0 | 1.00 | WG7055 |
| 7440-28-0 | Thallium | ICP-TR | 09/26/96 21:04 | 7.37 | U | 7.37 | 10.0 | 1.00 | WG7055 |
| 7440-66-6 | Zinc | ICP-TR | 09/26/96 21:04 | 43.8 | | 18.1 | 30.0 | 1.00 | WG7055 |

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**



PBWWG7130

Analyze Date: 10/02/96 08:34

Units: ug/l

Instrument: CV

| | |
|---------|---------|
| Mercury | 0.200 U |
|---------|---------|

PBWWG7055

Analyze Date: 09/26/96 19:14

Units: ug/l

Instrument: ICP-TR

| | | | | | | | |
|----------|--------|---------|---------|-----------|---------|---------|---------|
| Antimony | 2.53 U | Arsenic | 3.02 U | Beryllium | -1.38 B | Cadmium | 0.250 U |
| Chromium | 5.59 B | Copper | 0.980 U | Lead | 1.86 U | Nickel | 0.420 B |
| Selenium | 3.00 U | Silver | 0.270 U | Thallium | 7.37 U | Zinc | 18.1 U |

VOLATILE ORGANICS ANALYSIS DATA SHEET

FB-1

Lab Name: IEA-NJ

Job No. : 64030

Matrix: (soil/water)Water

Sample wt/vol: 5 (g/mL)ml

Level: (low/med) LOW

% Moisture: not dec.

GC Column: DB-624 ID: 0.53 (mm)

Soil Extract Volume: (uL)

Lab Sample ID: 64030001

Lab File ID: >EG903

Date Received: 09/12/96

Date Analyzed: 09/17/96

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l Q

CAS NO. COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | Q |
|------------|------------------------|---|---|
| 71-43-2 | Benzene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |
| 98-82-8 | Isopropylbenzene | 5 | U |
| 103-65-1 | N-Propylbenzene | 5 | U |
| 25155-15-1 | P-Isopropyltoluene | 5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5 | U |
| 104-51-8 | n-Butylbenzene | 5 | U |
| 135-98-8 | Sec-Butylbenzene | 5 | U |
| 98-06-6 | Tert-Butylbenzene | 5 | U |

000041
CLIENT ID

VOLATILE ORGANICS ANALYSIS DATA SHEET

UST1-9-11

Lab Name: IEA-NJ

Job No. : 64030

Matrix: (soil/water) Soil

Lab Sample ID: 64030002

Sample wt/vol: 5 (g/mL) g

Lab File ID: A2036

Level: (low/med) LOW

Date Received: 09/12/96

% Moisture: not dec. 5

Date Analyzed: 09/16/96

GC Column: RTX-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|------------------------|--|---|
| 71-43-2 | Benzene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |
| 98-82-8 | Isopropylbenzene | 5 | U |
| 103-65-1 | N-Propylbenzene | 5 | U |
| 25155-15-1 | P-Isopropyltoluene | 5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5 | U |
| 104-51-8 | n-Butylbenzene | 5 | U |
| 135-98-8 | Sec-Butylbenzene | 5 | U |
| 98-06-6 | Tert-Butylbenzene | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000044

UST1-11-13

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilSample wt/vol: 5 (g/mL) gLevel: (low/med) LOW% Moisture: not dec. 4GC Column: RTX-624 ID: 0.53 (mm)

Soil Extract Volume: _____ (uL)

Lab Sample ID: 64030003Lab File ID: A2037Date Received: 09/12/96Date Analyzed: 09/16/96Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|------------------------|--|---|
| 71-43-2 | Benzene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |
| 98-82-8 | Isopropylbenzene | 5 | U |
| 103-65-1 | N-Propylbenzene | 5 | U |
| 25155-15-1 | P-Isopropyltoluene | 5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5 | U |
| 104-51-8 | n-Butylbenzene | 5 | U |
| 135-98-8 | Sec-Butylbenzene | 5 | U |
| 98-06-6 | Tert-Butylbenzene | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

000047
CLIENT ID

UST2-9-11

Lab Name: IEA-NJ

Job No. : 64030

Matrix: (soil/water) Soil

Lab Sample ID: 64030004

Sample wt/vol: 5 (g/mL) g

Lab File ID: A2038

Level: (low/med) LOW

Date Received: 09/12/96

% Moisture: not dec. 6

Date Analyzed: 09/17/96

GC Column: RTX-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | | |
|------------|------------------------|---|---|
| 71-43-2 | Benzene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |
| 98-82-8 | Isopropylbenzene | 5 | U |
| 103-65-1 | N-Propylbenzene | 5 | U |
| 25155-15-1 | P-Isopropyltoluene | 5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5 | U |
| 104-51-8 | n-Butylbenzene | 5 | U |
| 135-98-8 | Sec-Butylbenzene | 5 | U |
| 98-06-6 | Tert-Butylbenzene | 5 | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET

UST2-11-13

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030005Sample wt/vol: 5 (g/mL) gLab File ID: A2039Level: (low/med) LOWDate Received: 09/12/96% Moisture: not dec. 6Date Analyzed: 09/17/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|------------------------|--|---|
| 71-43-2 | Benzene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |
| 98-82-8 | Isopropylbenzene | 5 | U |
| 103-65-1 | N-Propylbenzene | 5 | U |
| 25155-15-1 | P-Isopropyltoluene | 5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5 | U |
| 104-51-8 | n-Butylbenzene | 5 | U |
| 135-98-8 | Sec-Butylbenzene | 5 | U |
| 98-06-6 | Tert-Butylbenzene | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

000053
CLIENT

UST1-911SD

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030006Sample wt/vol: 5 (g/mL) gLab File ID: A2060Level: (low/med) LOWDate Received: 09/12/96% Moisture: not dec. 5Date Analyzed: 09/17/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| | | | |
|------------|------------------------|---|---|
| 71-43-2 | Benzene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |
| 98-82-8 | Isopropylbenzene | 5 | U |
| 103-65-1 | N-Propylbenzene | 5 | U |
| 25155-15-1 | P-Isopropyltoluene | 5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5 | U |
| 104-51-8 | n-Butylbenzene | 5 | U |
| 135-98-8 | Sec-Butylbenzene | 5 | U |
| 98-06-6 | Tert-Butylbenzene | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

SDSS3A1214

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030007Sample wt/vol: 5 (g/mL) gLab File ID: A2061Level: (low/med) LOWDate Received: 09/12/96% Moisture: not dec. 5Date Analyzed: 09/17/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 6 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

000060
CLIENT

SDSS3B1618

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030008Sample wt/vol: 5 (g/mL) gLab File ID: A2062Level: (low/med) LOWDate Received: 09/12/96% Moisture: not dec. 3Date Analyzed: 09/17/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO.

COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | J |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

SDSS3C2022

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilSample wt/vol: 5 (g/mL) gLevel: (low/med) LOW% Moisture: not dec. 5GC Column: RTX-624 ID: 0.53 (mm)

Soil Extract Volume: _____ (uL)

Lab Sample ID: 64030009Lab File ID: A2063Date Received: 09/12/96Date Analyzed: 09/17/96Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 6 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

SDSS2A1214

Lab Name: IEA-NJ

Job No. : 64030

Matrix: (soil/water) Soil

Lab Sample ID: 64030010

Sample wt/vol: 5 (g/mL) g

Lab File ID: A2064

Level: (low/med) LOW

Date Received: 09/12/96

% Moisture: not dec. 7

Date Analyzed: 09/17/96

GC Column: RTX-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| | | | |
|------------|----------------------------|----|---|
| 67-64-1 | Acetone | 12 | |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

000071A

SDSS2B1618

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030011Sample wt/vol: 5 (g/mL) gLab File ID: A2065Level: (low/med) LOWDate Received: 09/12/96% Moisture: not dec. 2Date Analyzed: 09/17/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

000071
CL 10071

SDSS2C2022

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030012Sample wt/vol: 5 (g/mL) gLab File ID: A2066Level: (low/med) LOWDate Received: 09/12/96% Moisture: not dec. 3Date Analyzed: 09/17/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

CAS NO.

COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 3 | J |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CONFIDENTIAL

SDSS1A1214

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030013Sample wt/vol: 5 (g/mL) gLab File ID: A2067Level: (low/med) LOWDate Received: 09/12/96% Moisture: not dec. 2Date Analyzed: 09/17/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| | | | |
|------------|----------------------------|----|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

000030A

SDSS1B1618

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030014Sample wt/vol: 5 (g/mL) gLab File ID: A2068Level: (low/med) LOWDate Received: 09/12/96% Moisture: not dec. 4Date Analyzed: 09/17/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

Q

| CAS NO. | COMPOUND | | |
|------------|----------------------------|----|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

SDSS1C2022

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030015Sample wt/vol: 5 (g/mL) gLab File ID: A2087Level: (low/med) LOWDate Received: 09/12/96% Moisture: not dec. 4Date Analyzed: 09/18/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

CAS NO.

COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

UST1911MSMS

Lab Name: IEA-NJ

Job No. : 64030

Matrix: (soil/water) Soil

Lab Sample ID: 64030016MS

Sample wt/vol: 5 (g/mL) g

Lab File ID: A2088

Level: (low/med) LOW

Date Received: 09/12/96

% Moisture: not dec. 5

Date Analyzed: 09/18/96

GC Column: RTX-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|------------------------|--|---|
| 71-43-2 | Benzene | 57 | |
| 108-88-3 | Toluene | 53 | |
| 100-41-4 | Ethylbenzene | 5 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |
| 98-82-8 | Isopropylbenzene | 5 | U |
| 103-65-1 | N-Propylbenzene | 5 | U |
| 25155-15-1 | P-Isopropyltoluene | 5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5 | U |
| 104-51-8 | n-Butylbenzene | 5 | U |
| 135-98-8 | Sec-Butylbenzene | 5 | U |
| 98-06-6 | Tert-Butylbenzene | 5 | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET

000083JD

UST1911MSDMSD

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilSample wt/vol: 5 (g/mL) gLevel: (low/med) LOW% Moisture: not dec. 5GC Column: RTX-624 ID: 0.53 (mm)

Soil Extract Volume: _____ (uL)

Lab Sample ID: 64030017MSDLab File ID: A2089Date Received: 09/12/96Date Analyzed: 09/18/96Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

| | | | |
|------------|------------------------|----|---|
| 71-43-2 | Benzene | 56 | |
| 108-88-3 | Toluene | 53 | |
| 100-41-4 | Ethylbenzene | 5 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |
| 98-82-8 | Isopropylbenzene | 5 | U |
| 103-65-1 | N-Propylbenzene | 5 | U |
| 25155-15-1 | P-Isopropyltoluene | 5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5 | U |
| 104-51-8 | n-Butylbenzene | 5 | U |
| 135-98-8 | Sec-Butylbenzene | 5 | U |
| 98-06-6 | Tert-Butylbenzene | 5 | U |

FORM I VOA

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FB-1

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) WaterLab Sample ID: 64030001Sample wt/vol: 1000 (g/mL) mlLab File ID: H4761Level: (low/med) LOWDate Received: 09/12/96

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

Date Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/07/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: _____CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Q

CAS NO.

COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/l</u> | Q |
|----------|----------------------------|---|---|
| 83-32-9 | Acenaphthene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 56-55-3 | Benzo (a) Anthracene | 10 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 10 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 10 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 10 | U |
| 50-32-8 | Benzo (a) Pyrene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

UST1-9-11

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030002Sample wt/vol: 30 (g/mL) gLab File ID: H4743Level: (low/med) LOWDate Received: 09/12/96% Moisture: 5 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------|--|---|
| 83-32-9 | Acenaphthene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 56-55-3 | Benzo(a)Anthracene | 350 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 350 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 350 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 350 | U |
| 50-32-8 | Benzo(a)Pyrene | 350 | U |
| 218-01-9 | Chrysene | 350 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 350 | U |
| 206-44-0 | Fluoranthene | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000349
CONFIDENTIAL

UST1-11-13

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030003Sample wt/vol: 30 (g/mL) gLab File ID: H4744Level: (low/med) LOWDate Received: 09/12/96% Moisture: 4 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CAS NO.

COMPOUND

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

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|----------------------------|--|---|
| 83-32-9 | Acenaphthene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

UST2-9-11

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030004Sample wt/vol: 30 (g/mL) gLab File ID: H4745Level: (low/med) LOWDate Received: 09/12/96% Moisture: 6 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO. COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|----------------------------|--|---|
| 83-32-9 | Acenaphthene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 56-55-3 | Benzo (a) Anthracene | 350 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 350 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 350 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 350 | U |
| 50-32-8 | Benzo (a) Pyrene | 350 | U |
| 218-01-9 | Chrysene | 350 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 350 | U |
| 206-44-0 | Fluoranthene | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

UST2-11-13

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030005Sample wt/vol: 30 (g/mL) gLab File ID: H4746Level: (low/med) LOWDate Received: 09/12/96% Moisture: 6 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|----------------------------|--|---|
| 83-32-9 | Acenaphthene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 56-55-3 | Benzo (a) Anthracene | 350 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 350 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 350 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 350 | U |
| 50-32-8 | Benzo (a) Pyrene | 350 | U |
| 218-01-9 | Chrysene | 350 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 350 | U |
| 206-44-0 | Fluoranthene | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIN 00019

UST1-911SD

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030006Sample wt/vol: 30 (g/mL) gLab File ID: H4747Level: (low/med) LOWDate Received: 09/12/96% Moisture: 5 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

CAS NO.

COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|----------------------------|--|---|
| 83-32-9 | Acenaphthene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 56-55-3 | Benzo (a) Anthracene | 350 | U |
| 205-99-2 | Benzo (b) Fluoroanthene | 350 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 350 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 350 | U |
| 50-32-8 | Benzo (a) Pyrene | 350 | U |
| 218-01-9 | Chrysene | 350 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 350 | U |
| 206-44-0 | Fluoranthene | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000252
CLIENT ID

SDSS3A1214

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030007Sample wt/vol: 30 (g/mL) gLab File ID: H4748Level: (low/med) LOWDate Received: 09/12/96% Moisture: 5 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

Q

CAS NO.

COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 350 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 350 | U |
| 95-57-8 | 2-Chlorophenol | 350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 350 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 350 | U |
| 95-48-7 | 2-Methylphenol | 350 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 350 | U |
| 106-44-5 | 4-Methylphenol | 350 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 350 | U |
| 67-72-1 | Hexachloroethane | 350 | U |
| 98-95-3 | Nitrobenzene | 350 | U |
| 78-59-1 | Isophorone | 350 | U |
| 88-75-5 | 2-Nitrophenol | 350 | U |
| 105-67-9 | 2,4-Dimethylphenol | 350 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 350 | U |
| 120-83-2 | 2,4-Dichlorophenol | 350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 106-47-8 | 4-Chloroaniline | 350 | U |
| 87-68-3 | Hexachlorobutadiene | 350 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 350 | U |
| 91-57-6 | 2-Methylnaphthalene | 350 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 350 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 350 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 350 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 350 | U |
| 208-96-8 | Acenaphthylene | 350 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 350 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 350 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID **000253**

SDSS3A1214

Lab Name: IEA-NJ

Job No. : 64030

Matrix: (soil/water) Soil

Lab Sample ID: 64030007

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4748

Level: (low/med) LOW

Date Received: 09/12/96

% Moisture: 5 decanted: (Y/N) N

Date Extracted: 09/13/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/06/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 350 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 350 | U |
| 84-66-2 | Diethylphthalate | 350 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 350 | U |
| 118-74-1 | Hexachlorobenzene | 350 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 86-74-8 | Carbazole | 350 | U |
| 84-74-2 | Di-n-Butylphthalate | 350 | U |
| 206-44-0 | Fluoranthene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |
| 85-68-7 | Butylbenzylphthalate | 350 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 350 | U |
| 56-55-3 | Benzo(a)Anthracene | 350 | U |
| 218-01-9 | Chrysene | 350 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 350 | U |
| 117-84-0 | Di-n-Octylphthalate | 350 | U |
| 205-99-2 | Benzo(b) Fluoranthene | 350 | U |
| 207-08-9 | Benzo(k) Fluoranthene | 350 | U |
| 50-32-8 | Benzo(a) Pyrene | 350 | U |
| 193-39-5 | Indeno(1,2,3-cd) Pyrene | 350 | U |
| 53-70-3 | Dibenz(a,h) Anthracene | 350 | U |
| 191-24-2 | Benzo(g,h,i) Perylene | 350 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SDSS3B1618

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030008Sample wt/vol: 30 (g/mL) gLab File ID: H4749Level: (low/med) LOWDate Received: 09/12/96% Moisture: 3 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | Q |
|----------|------------------------------|---|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000257
CLIENT ID

SDSS3B1618

Lab Name: IEA-NJ

Job No. : 64030

Matrix: (soil/water) Soil

Lab Sample ID: 64030008

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4749

Level: (low/med) LOW

Date Received: 09/12/96

% Moisture: 3 decanted: (Y/N) N

Date Extracted: 09/13/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/06/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz (a,h) Anthracene | 340 | U |
| 191-24-2 | Benzo (g,h,i) Perylene | 340 | U |

FORM I SV-2

000200
CLIENT ID

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SDSS3C2022

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030009Sample wt/vol: 30 (g/mL) gLab File ID: H4750Level: (low/med) LOWDate Received: 09/12/96% Moisture: 5 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 350 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 350 | U |
| 95-57-8 | 2-Chlorophenol | 350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 350 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 350 | U |
| 95-48-7 | 2-Methylphenol | 350 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 350 | U |
| 106-44-5 | 4-Methylphenol | 350 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 350 | U |
| 67-72-1 | Hexachloroethane | 350 | U |
| 98-95-3 | Nitrobenzene | 350 | U |
| 78-59-1 | Isophorone | 350 | U |
| 88-75-5 | 2-Nitrophenol | 350 | U |
| 105-67-9 | 2,4-Dimethylphenol | 350 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 350 | U |
| 120-83-2 | 2,4-Dichlorophenol | 350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 106-47-8 | 4-Chloroaniline | 350 | U |
| 87-68-3 | Hexachlorobutadiene | 350 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 350 | U |
| 91-57-6 | 2-Methylnaphthalene | 350 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 350 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 350 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 350 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 350 | U |
| 208-96-8 | Acenaphthylene | 350 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 350 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 350 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000261
CLIENT ID

SDSS3C2022

Lab Name: IEA-NJ

Job No. : 64030

Matrix: (soil/water) Soil

Lab Sample ID: 64030009

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4750

Level: (low/med) LOW

Date Received: 09/12/96

% Moisture: 5 decanted: (Y/N) N

Date Extracted: 09/13/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/06/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 350 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 350 | U |
| 84-66-2 | Diethylphthalate | 350 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 350 | U |
| 118-74-1 | Hexachlorobenzene | 350 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 86-74-8 | Carbazole | 350 | U |
| 84-74-2 | Di-n-Butylphthalate | 350 | U |
| 206-44-0 | Fluoranthene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |
| 85-68-7 | Butylbenzylphthalate | 350 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 350 | U |
| 56-55-3 | Benzo (a) Anthracene | 350 | U |
| 218-01-9 | Chrysene | 350 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 350 | U |
| 117-84-0 | Di-n-Octylphthalate | 350 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 350 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 350 | U |
| 50-32-8 | Benzo (a) Pyrene | 350 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 350 | U |
| 53-70-3 | Dibenz (a,h) Anthracene | 350 | U |
| 191-24-2 | Benzo (g,h,i) Perylene | 350 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SDSS2A1214

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030010Sample wt/vol: 30 (g/mL) gLab File ID: H4751Level: (low/med) LOWDate Received: 09/12/96% Moisture: 7 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 350 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 350 | U |
| 95-57-8 | 2-Chlorophenol | 350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 350 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 350 | U |
| 95-48-7 | 2-Methylphenol | 350 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 350 | U |
| 106-44-5 | 4-Methylphenol | 350 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 350 | U |
| 67-72-1 | Hexachloroethane | 350 | U |
| 98-95-3 | Nitrobenzene | 350 | U |
| 78-59-1 | Isophorone | 350 | U |
| 88-75-5 | 2-Nitrophenol | 350 | U |
| 105-67-9 | 2,4-Dimethylphenol | 350 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 350 | U |
| 120-83-2 | 2,4-Dichlorophenol | 350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 106-47-8 | 4-Chloroaniline | 350 | U |
| 87-68-3 | Hexachlorobutadiene | 350 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 350 | U |
| 91-57-6 | 2-Methylnaphthalene | 350 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 350 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 350 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 350 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 350 | U |
| 208-96-8 | Acenaphthylene | 350 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 350 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 350 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000265
CLIENT ID

SDSS2A1214

Lab Name: IEA-NJ

Job No. : 64030

Matrix: (soil/water) Soil

Lab Sample ID: 64030010

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4751

Level: (low/med) LOW

Date Received: 09/12/96

% Moisture: 7 decanted: (Y/N) N

Date Extracted: 09/13/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/06/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | <u>Q</u> |
|-----------|------------------------------|--|----------|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 350 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 350 | U |
| 84-66-2 | Diethylphthalate | 350 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 350 | U |
| 118-74-1 | Hexachlorobenzene | 350 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 86-74-8 | Carbazole | 350 | U |
| 84-74-2 | Di-n-Butylphthalate | 350 | U |
| 206-44-0 | Fluoranthene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |
| 85-68-7 | Butylbenzylphthalate | 350 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 350 | U |
| 56-55-3 | Benzo (a) Anthracene | 350 | U |
| 218-01-9 | Chrysene | 350 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 350 | U |
| 117-84-0 | Di-n-Octylphthalate | 350 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 350 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 350 | U |
| 50-32-8 | Benzo (a) Pyrene | 350 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 350 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 350 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 350 | U |

FORM I SV-2

000268
CLIENT ID

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SDSS2B1618

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030011Sample wt/vol: 30 (g/mL) gLab File ID: H4752Level: (low/med) LOWDate Received: 09/12/96% Moisture: 2 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | Q |
|----------|------------------------------|---|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1700 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1700 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000269
CLIENT ID

SDSS2B1618

Lab Name: IEA-NJ

Job No. : 64030

Matrix: (soil/water) Soil

Lab Sample ID: 64030011

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4752

Level: (low/med) LOW

Date Received: 09/12/96

% Moisture: 2 decanted: (Y/N) N

Date Extracted: 09/13/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/06/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | <u>Q</u> |
|-----------|------------------------------|--|----------|
| 51-28-5 | 2,4-Dinitrophenol | 1700 | U |
| 100-02-7 | 4-Nitrophenol | 1700 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1700 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1700 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1700 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 340 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 340 | U |

FORM I SV-2

000272

CLIENT ID

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SDSS2C2022

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030012Sample wt/vol: 30 (g/mL) gLab File ID: H4753Level: (low/med) LOWDate Received: 09/12/96% Moisture: 3 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000273
CLIENT ID

SDSS2C2022

Lab Name: IEA-NJ

Job No. : 64030

Matrix: (soil/water) Soil

Lab Sample ID: 64030012

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4753

Level: (low/med) LOW

Date Received: 09/12/96

% Moisture: 3 decanted: (Y/N) N

Date Extracted: 09/13/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/06/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO. COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 340 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 340 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SDSS1A1214

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030013Sample wt/vol: 30 (g/mL) gLab File ID: H4754Level: (low/med) LOWDate Received: 09/12/96% Moisture: 2 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1700 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1700 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

000277

CLIENT ID

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SDSS1A1214

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030013Sample wt/vol: 30 (g/mL) gLab File ID: H4754Level: (low/med) LOWDate Received: 09/12/96% Moisture: 2 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

CAS NO:

COMPOUND

| CAS NO: | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1700 | U |
| 100-02-7 | 4-Nitrophenol | 1700 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1700 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1700 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1700 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 340 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 340 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000280

SDSS1B1618

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030014Sample wt/vol: 30 (g/mL) gLab File ID: H4755Level: (low/med) LOWDate Received: 09/12/96% Moisture: 4 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000251
CLIENT ID

SDSS1B1618

Lab Name: IEA-NJ

Job No. : 64030

Matrix: (soil/water) Soil

Lab Sample ID: 64030014

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4755

Level: (low/med) LOW

Date Received: 09/12/96

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 09/13/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/06/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO. COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis.(2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 340 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 340 | U |

FORM I SV-2

000284

CLIENT ID

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SDSS1C2022

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030015Sample wt/vol: 30 (g/mL) gLab File ID: H4756Level: (low/med) LOWDate Received: 09/12/96% Moisture: 4 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | Q |
|----------|------------------------------|---|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

000255

CLIENT ID

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SDSS1C2022

Lab Name: IEA-NJJob No. : 64030Matrix: (soil/water) SoilLab Sample ID: 64030015Sample wt/vol: 30 (g/mL) gLab File ID: H4756Level: (low/med) LOWDate Received: 09/12/96% Moisture: 4 decanted: (Y/N) NDate Extracted: 09/13/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/06/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo(a)Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo(b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo(k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo(a) Pyrene | 340 | U |
| 193-39-5 | Indeno(1,2,3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz(a,h) Anthracene | 340 | U |
| 191-24-2 | Benzo(g,h,i) Perylene | 340 | U |

FORM I SV-2



IEA
An Aquarion Company

Metals Analysis Results

000307

Prepared For
Dvirka & Bartilucci

IEA Sample No.: 64030007

Client ID: SDSS3A1214

Matrix: Soil

Units: mg/kg

Sample Date: 09/11/96

Percent Solids: 94.7

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 17:52 | 0.116 | U | 0.116 | 0.634 | 1.00 | WG6898 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 17:52 | 2.04 | | 0.298 | 0.845 | 1.00 | WG6898 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 17:52 | 0.183 | B | 0.0106 | 0.422 | 1.00 | WG6898 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 17:52 | 0.133 | B | 0.0180 | 0.422 | 1.00 | WG6898 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 17:52 | 6.54 | | 0.0612 | 1.06 | 1.00 | WG6898 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 17:52 | 14.0 | | 0.112 | 1.06 | 1.00 | WG6898 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 17:52 | 5.03 | | 0.0697 | 0.317 | 1.00 | WG6898 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:32 | 0.157 | | 0.106 | 0.106 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 17:52 | 3.39 | | 0.145 | 1.06 | 1.00 | WG6898 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 17:52 | 0.242 | U | 0.242 | 0.528 | 1.00 | WG6898 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 17:52 | 0.287 | B | 0.0338 | 1.06 | 1.00 | WG6898 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 17:52 | 0.778 | U | 0.778 | 1.06 | 1.00 | WG6898 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 17:52 | 14.1 | | 0.775 | 3.17 | 1.00 | WG6898 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



IEA
An Aquarion Company

Metals Analysis Results

000308

Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64030008

Client ID: SDSS3B1618

Matrix: Soil

Units: mg/kg

Sample Date: 09/11/96

Percent Solids: 97.4

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 18:08 | 0.113 | U | 0.113 | 0.616 | 1.00 | WG6898 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 18:08 | 0.811 | B | 0.290 | 0.821 | 1.00 | WG6898 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 18:08 | 0.143 | B | 0.0103 | 0.411 | 1.00 | WG6898 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 18:08 | 0.0380 | B | 0.0174 | 0.411 | 1.00 | WG6898 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 18:08 | 2.75 | | 0.0595 | 1.03 | 1.00 | WG6898 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 18:08 | 3.01 | | 0.109 | 1.03 | 1.00 | WG6898 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 18:08 | 1.16 | | 0.0678 | 0.308 | 1.00 | WG6898 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:34 | 0.103 | U | 0.103 | 0.103 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 18:08 | 1.83 | | 0.141 | 1.03 | 1.00 | WG6898 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 18:08 | 0.235 | U | 0.235 | 0.513 | 1.00 | WG6898 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 18:08 | 0.0503 | B | 0.0328 | 1.03 | 1.00 | WG6898 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 18:08 | 0.757 | U | 0.757 | 1.03 | 1.00 | WG6898 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 18:08 | 5.50 | | 0.754 | 3.08 | 1.00 | WG6898 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



Prepared For
Dvirka & Bartilucci

IEA Sample No.: 64030009

Client ID: SDSS3C2022

Matrix: Soil

Units: mg/kg

Sample Date: 09/11/96

Percent Solids: 94.8

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 18:14 | 0.116 | U | 0.116 | 0.633 | 1.00 | WG6898 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 18:14 | 0.775 | B | 0.297 | 0.844 | 1.00 | WG6898 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 18:14 | 0.119 | B | 0.0105 | 0.422 | 1.00 | WG6898 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 18:14 | 0.0327 | B | 0.0179 | 0.422 | 1.00 | WG6898 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 18:14 | 3.27 | | 0.0612 | 1.05 | 1.00 | WG6898 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 18:14 | 7.55 | | 0.112 | 1.05 | 1.00 | WG6898 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 18:14 | 0.968 | | 0.0696 | 0.316 | 1.00 | WG6898 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:36 | 0.105 | U | 0.105 | 0.105 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 18:14 | 1.94 | | 0.144 | 1.05 | 1.00 | WG6898 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 18:14 | 0.242 | U | 0.242 | 0.527 | 1.00 | WG6898 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 18:14 | 0.0770 | B | 0.0338 | 1.05 | 1.00 | WG6898 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 18:14 | 0.777 | U | 0.777 | 1.05 | 1.00 | WG6898 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 18:14 | 6.04 | | 0.774 | 3.16 | 1.00 | WG6898 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



Prepared For
Dvirka & Bartilucci

IEA Sample No.: 64030010

Matrix: Soil
Percent Solids: 93.0

Units: mg/kg

Client ID: SDSS2A1214

Sample Date: 09/11/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 18:19 | 0.118 | U | 0.118 | 0.645 | 1.00 | WG6898 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 18:19 | 2.23 | | 0.303 | 0.860 | 1.00 | WG6898 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 18:19 | 0.198 | B | 0.0108 | 0.430 | 1.00 | WG6898 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 18:19 | 0.331 | B | 0.0183 | 0.430 | 1.00 | WG6898 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 18:19 | 15.8 | | 0.0624 | 1.08 | 1.00 | WG6898 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 18:19 | 26.6 | | 0.114 | 1.08 | 1.00 | WG6898 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 18:19 | 6.61 | | 0.0710 | 0.322 | 1.00 | WG6898 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:38 | 0.114 | | 0.108 | 0.108 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 18:19 | 11.4 | | 0.147 | 1.08 | 1.00 | WG6898 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 18:19 | 0.246 | U | 0.246 | 0.538 | 1.00 | WG6898 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 18:19 | 0.203 | B | 0.0344 | 1.08 | 1.00 | WG6898 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 18:19 | 0.792 | U | 0.792 | 1.08 | 1.00 | WG6898 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 18:19 | 20.4 | | 0.789 | 3.22 | 1.00 | WG6898 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**

**IEA**

An Aquarion Company

Metals Analysis Results

000371

Prepared For

Dvirka & Bartilucci**IEA Sample No.: 64030011**

Matrix: Soil

Percent Solids: 97.6

Units: mg/kg

Client ID: SDSS2B1618

Sample Date: 09/11/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 18:24 | 0.113 | U | 0.113 | 0.615 | 1.00 | WG6898 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 18:24 | 1.05 | | 0.289 | 0.820 | 1.00 | WG6898 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 18:24 | 0.0758 | B | 0.0102 | 0.410 | 1.00 | WG6898 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 18:24 | 0.0359 | B | 0.0174 | 0.410 | 1.00 | WG6898 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 18:24 | 3.13 | | 0.0594 | 1.02 | 1.00 | WG6898 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 18:24 | 4.00 | | 0.109 | 1.02 | 1.00 | WG6898 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 18:24 | 1.39 | | 0.0676 | 0.307 | 1.00 | WG6898 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:40 | 0.102 | U | 0.102 | 0.102 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 18:24 | 1.69 | | 0.140 | 1.02 | 1.00 | WG6898 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 18:24 | 0.235 | U | 0.235 | 0.512 | 1.00 | WG6898 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 18:24 | 0.0492 | B | 0.0328 | 1.02 | 1.00 | WG6898 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 18:24 | 0.755 | U | 0.755 | 1.02 | 1.00 | WG6898 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 18:24 | 5.72 | | 0.752 | 3.07 | 1.00 | WG6898 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids**Qualifiers:****U = Undetected below MDL****B = Detected between MDL and RL******RL = Reporting Limit**

Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64030012

Matrix: Soil
Percent Solids: 97.1

Units: mg/kg

Client ID: SDSS2C2022

Sample Date: 09/11/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 18:30 | 0.113 | U | 0.113 | 0.618 | 1.00 | WG6898 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 18:30 | 1.17 | | 0.290 | 0.824 | 1.00 | WG6898 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 18:30 | 0.0968 | B | 0.0103 | 0.412 | 1.00 | WG6898 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 18:30 | 0.106 | B | 0.0175 | 0.412 | 1.00 | WG6898 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 18:30 | 6.24 | | 0.0597 | 1.03 | 1.00 | WG6898 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 18:30 | 6.69 | | 0.109 | 1.03 | 1.00 | WG6898 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 18:30 | 2.20 | | 0.0680 | 0.309 | 1.00 | WG6898 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:42 | 0.103 | U | 0.103 | 0.103 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 18:30 | 2.66 | | 0.141 | 1.03 | 1.00 | WG6898 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 18:30 | 0.236 | U | 0.236 | 0.515 | 1.00 | WG6898 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 18:30 | 0.0711 | B | 0.0330 | 1.03 | 1.00 | WG6898 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 18:30 | 0.759 | U | 0.759 | 1.03 | 1.00 | WG6898 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 18:30 | 8.36 | | 0.756 | 3.09 | 1.00 | WG6898 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



IEA

An Aquarion Company

Metals Analysis Results

000373

Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64030013

Matrix: Soil

Percent Solids: 97.6

Client ID: SDSS1A1214

Sample Date: 09/11/96

Units: mg/kg

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 18:35 | 0.113 | U | 0.113 | 0.615 | 1.00 | WG6898 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 18:35 | 1.14 | | 0.289 | 0.820 | 1.00 | WG6898 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 18:35 | 0.0584 | B | 0.0102 | 0.410 | 1.00 | WG6898 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 18:35 | 0.0871 | B | 0.0174 | 0.410 | 1.00 | WG6898 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 18:35 | 3.96 | | 0.0594 | 1.02 | 1.00 | WG6898 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 18:35 | 1.31 | | 0.109 | 1.02 | 1.00 | WG6898 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 18:35 | 1.73 | | 0.0676 | 0.307 | 1.00 | WG6898 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:44 | 0.134 | | 0.102 | 0.102 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 18:35 | 1.55 | | 0.140 | 1.02 | 1.00 | WG6898 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 18:35 | 0.235 | U | 0.235 | 0.512 | 1.00 | WG6898 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 18:35 | 0.0471 | B | 0.0328 | 1.02 | 1.00 | WG6898 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 18:35 | 0.755 | U | 0.755 | 1.02 | 1.00 | WG6898 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 18:35 | 9.75 | | 0.752 | 3.07 | 1.00 | WG6898 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



IEA

An Aquarion Company

Metals Analysis Results

000374

Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64030014

Matrix: Soil

Percent Solids: 96.1

Units: mg/kg

Client ID: SDSS1B1618

Sample Date: 09/11/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 18:41 | 0.120 | B | 0.114 | 0.624 | 1.00 | WG6898 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 18:41 | 1.52 | | 0.293 | 0.832 | 1.00 | WG6898 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 18:41 | 0.125 | B | 0.0104 | 0.416 | 1.00 | WG6898 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 18:41 | 0.0656 | B | 0.0177 | 0.416 | 1.00 | WG6898 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 18:41 | 18.4 | | 0.0604 | 1.04 | 1.00 | WG6898 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 18:41 | 6.75 | | 0.110 | 1.04 | 1.00 | WG6898 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 18:41 | 1.51 | | 0.0687 | 0.312 | 1.00 | WG6898 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:46 | 0.126 | | 0.104 | 0.104 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 18:41 | 1.39 | | 0.142 | 1.04 | 1.00 | WG6898 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 18:41 | 0.238 | U | 0.238 | 0.520 | 1.00 | WG6898 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 18:41 | 0.0499 | B | 0.0333 | 1.04 | 1.00 | WG6898 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 18:41 | 0.767 | U | 0.767 | 1.04 | 1.00 | WG6898 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 18:41 | 11.2 | | 0.764 | 3.12 | 1.00 | WG6898 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**



Prepared For
Dvirka & Bartilucci

IEA Sample No.: 64030015

Client ID: SDSS1C2022

Matrix: Soil

Units: mg/kg

Sample Date: 09/11/96

Percent Solids: 96.0

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 15:31 | 0.114 | U | 0.114 | 0.625 | 1.00 | WG6899 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 15:31 | 1.82 | | 0.294 | 0.833 | 1.00 | WG6899 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 15:31 | 0.102 | B | 0.0104 | 0.417 | 1.00 | WG6899 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 15:31 | 0.0313 | B | 0.0177 | 0.417 | 1.00 | WG6899 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 15:31 | 5.78 | | 0.0604 | 1.04 | 1.00 | WG6899 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 15:31 | 3.84 | | 0.110 | 1.04 | 1.00 | WG6899 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 15:31 | 2.51 | | 0.0688 | 0.312 | 1.00 | WG6899 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:48 | 0.182 | | 0.104 | 0.104 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 15:31 | 1.46 | | 0.143 | 1.04 | 1.00 | WG6899 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 15:31 | 0.238 | U | 0.238 | 0.521 | 1.00 | WG6899 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 15:31 | 0.0385 | B | 0.0333 | 1.04 | 1.00 | WG6899 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 15:31 | 0.768 | U | 0.768 | 1.04 | 1.00 | WG6899 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 15:31 | 8.20 | | 0.764 | 3.12 | 1.00 | WG6899 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



IEA

An Aquarion Company

Metals Analysis Results

000376

Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64060002

Matrix: Soil

Percent Solids: 82.2

Client ID: SDSR12-14

Sample Date: 09/12/96

Units: mg/kg

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 13:34 | 0.134 | U | 0.134 | 0.730 | 1.00 | WG6899 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 13:34 | 0.564 | B | 0.343 | 0.973 | 1.00 | WG6899 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 13:34 | 0.0633 | B | 0.0122 | 0.487 | 1.00 | WG6899 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 13:34 | 0.0207 | U | 0.0207 | 0.487 | 1.00 | WG6899 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 13:34 | 1.79 | | 0.0706 | 1.22 | 1.00 | WG6899 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 13:34 | 1.86 | | 0.129 | 1.22 | 1.00 | WG6899 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 13:34 | 0.748 | | 0.0803 | 0.365 | 1.00 | WG6899 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 13:34 | 0.808 | B | 0.167 | 1.22 | 1.00 | WG6899 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 13:34 | 0.278 | U | 0.278 | 0.608 | 1.00 | WG6899 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 13:34 | 0.0511 | B | 0.0389 | 1.22 | 1.00 | WG6899 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 13:34 | 0.896 | U | 0.896 | 1.22 | 1.00 | WG6899 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 13:34 | 2.95 | B | 0.893 | 3.65 | 1.00 | WG6899 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**

000563

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64030 Date Sampled: 9/11/96
IEA Sample No: 64030001 Date Received: 9/12/96
Client Sample No: FB-1 Date Extracted: 10/2/96

Extraction (SW846 - 3510) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/03/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 0.1 mg/l.

Comments:

000567

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64030 Date Sampled: 9/11/96
IEA Sample No: 64030002 Date Received: 9/12/96
Client Sample No: UST1-9-11 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 9/25/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.5 mg/kg.

Comments: The sample does contain Motor Oil.

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64030 Date Sampled: 9/11/96
IEA Sample No: 64030003 Date Received: 9/12/96
Client Sample No: UST1-11-13 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 9/25/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.4 mg/kg.

Comments: The sample does contain Motor Oil.

000579

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64030 Date Sampled: 9/11/96
IEA Sample No: 64030004 Date Received: 9/12/96
Client Sample No: UST2-9-11 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 9/25/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.5 mg/kg.

Comments: The sample does contain Motor Oil.

000583

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64030 Date Sampled: 9/11/96
IEA Sample No: 64030005 Date Received: 9/12/96
Client Sample No: UST2-11-13 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 9/25/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.5 mg/kg.

Comments:

000587

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64030 Date Sampled: 9/11/96
IEA Sample No: 64030006 Date Received: 9/12/96
Client Sample No: UST1-911SD Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 9/25/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.5 mg/kg.

Comments: The sample does contain Motor Oil.

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64030 Date Sampled: 9/11/96
IEA Sample No: 64030007 Date Received: 9/12/96
Client Sample No: SDSS3A1214 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 9/26/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 3.5 mg/kg.

Comments: The sample does contain Motor Oil.

000596

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64030 Date Sampled: 9/11/96
IEA Sample No: 64030008 Date Received: 9/12/96
Client Sample No: SDSS3B1618 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 9/26/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.4 mg/kg.

Comments:

000600

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64030 Date Sampled: 9/11/96
IEA Sample No: 64030010 Date Received: 9/12/96
Client Sample No: SDSS2A1214 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 9/26/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.4 mg/kg.

Comments: The sample does contain Motor Oil.

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64030 Date Sampled: 9/11/96
IEA Sample No: 64030012 Date Received: 9/12/96
Client Sample No: SDSS2C2022 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 9/25/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.4 mg/kg.

Comments:

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64030 Date Sampled: 9/11/96
IEA Sample No: 64030015 Date Received: 9/12/96
Client Sample No: SDSS1C2022 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 9/25/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 3.4 mg/kg.

Comments:

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : WATER

CLIENT ID: FB-1

LAB SAMPLE ID : 64030001
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS :
CONCENTRATION UNITS: mg/l

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | <0.6 | 16-SEP-96 |

Method Detection Limit = .5 mg/L

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: UST1-9-11

LAB SAMPLE ID : 64030002
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 94.85
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 220 | 16-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: UST1-11-13

LAB SAMPLE ID : 64030003
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 5
PERCENT SOLIDS : 96.4
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 250 | 18-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: UST2-9-11

LAB SAMPLE ID : 64030004
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 94.13
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 39 | 18-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: UST2-11-13

LAB SAMPLE ID : 64030005
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 93.82
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 41 | 18-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: UST1-911SD

LAB SAMPLE ID : 64030006
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 5
PERCENT SOLIDS : 95.37
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 190 | 18-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSS3A1214

LAB SAMPLE ID : 64030007
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 94.73
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 59 | 18-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEETLAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSS3B1618

LAB SAMPLE ID : 64030008
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 97.4
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 38 | 18-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSS3C2022

LAB SAMPLE ID : 64030009
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 94.83
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | <21 | 18-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSS2A1214

LAB SAMPLE ID : 64030010
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 5
PERCENT SOLIDS : 93.04
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 360 | 18-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSS2B1618

LAB SAMPLE ID : 64030011
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 97.57
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | <20 | 18-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSS2C2022

LAB SAMPLE ID : 64030012
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 97.08
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 23 | 18-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSS1A1214

LAB SAMPLE ID : 64030013
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 97.61
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | <20 | 18-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSS1B1618

LAB SAMPLE ID : 64030014
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 96.11
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | <20 | 18-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSS1C2022

LAB SAMPLE ID : 64030015
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 95.95
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 22 | 18-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: UST1911MSMS

LAB SAMPLE ID : 64030016MS
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 94.13
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 92 % Recovery | 18-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: UST1911MSDDUP

LAB SAMPLE ID : 64030017DUP
DATE RECEIVED : 12-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 94.13
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 31 | 18-SEP-96 |

Method Detection Limit = 20 mg/kg



IEA

An Aquarion Company

Metals Analysis Results

000830

Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64087001

Matrix: Water

Units: ug/l

Client ID: FB-3

Sample Date: 09/13/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|-------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 14:11 | 2.53 | U | 2.53 | 6.00 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 14:11 | 3.02 | U | 3.02 | 8.00 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 14:11 | 0.200 | U | 0.200 | 4.00 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 14:11 | 0.250 | U | 0.250 | 4.00 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 14:07 | 0.310 | U | 0.310 | 10.0 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 14:11 | 6.80 | B | 0.980 | 10.0 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 14:11 | 1.86 | U | 1.86 | 3.00 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:11 | 0.200 | U | 0.200 | 0.200 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 14:11 | 1.79 | B | 0.420 | 10.0 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 14:11 | 3.00 | U | 3.00 | 5.00 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 14:11 | 0.270 | U | 0.270 | 10.0 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 14:11 | 7.37 | U | 7.37 | 10.0 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 14:11 | 18.1 | U | 18.1 | 30.0 | 1.00 | WG6865 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



IEA

An Aquarion Company

Metals Analysis Results

000801

Prepared For:

Dvirka & Bartilucci

Client ID: DSAC10-2

Sample Date: 09/13/96

IEA Sample No.: 64087002

Matrix: Soil

Units: mg/kg

Percent Solids: 93.1

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 11:19 | 0.141 | B | 0.118 | 0.644 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 11:19 | 2.24 | | 0.303 | 0.859 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 11:19 | 0.153 | B | 0.0107 | 0.430 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 11:19 | 0.530 | | 0.0182 | 0.430 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 11:19 | 11.0 | | 0.0623 | 1.07 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 11:19 | 10.9 | | 0.114 | 1.07 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 11:19 | 7.01 | | 0.0709 | 0.322 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:13 | 0.166 | | 0.107 | 0.107 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 11:19 | 4.03 | | 0.147 | 1.07 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 11:19 | 0.710 | | 0.246 | 0.537 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 11:19 | 0.0408 | B | 0.0344 | 1.07 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 11:19 | 0.792 | U | 0.792 | 1.07 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 11:19 | 158 | | 0.788 | 3.22 | 1.00 | WG6865 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit

**IEA**

An Aquarion Company

Metals Analysis Results

000832

Prepared For:

Dvirka & Bartilucci**IEA Sample No.: 64087003**

Matrix: Soil

Percent Solids: 97.0

Units: mg/kg

Client ID: DSAC12-4

Sample Date: 09/13/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 11:35 | 0.235 | B | 0.113 | 0.618 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 11:35 | 7.40 | | 0.291 | 0.825 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 11:35 | 0.0887 | B | 0.0103 | 0.412 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 11:35 | 0.114 | B | 0.0175 | 0.412 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 11:35 | 7.05 | | 0.0598 | 1.03 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 11:35 | 7.19 | | 0.109 | 1.03 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 11:35 | 2.82 | | 0.0680 | 0.309 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:15 | 0.103 | U | 0.103 | 0.103 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 11:35 | 1.79 | | 0.141 | 1.03 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 11:35 | 0.754 | | 0.236 | 0.515 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 11:35 | 0.0773 | B | 0.0330 | 1.03 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 11:35 | 0.760 | U | 0.760 | 1.03 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 11:35 | 10.7 | | 0.757 | 3.09 | 1.00 | WG6865 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids**Qualifiers:**

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**

Metals Analysis Results

Prepared For:
Dvirka & Bartilucci

000533

IEA Sample No.: 64087004

Client ID: DSAC20-2

Matrix: Soil

Units: mg/kg

Sample Date: 09/13/96

Percent Solids: 86.9

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 11:40 | 0.126 | U | 0.126 | 0.690 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 11:40 | 2.87 | | 0.324 | 0.920 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 11:40 | 0.273 | B | 0.0115 | 0.460 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 11:40 | 0.350 | B | 0.0196 | 0.460 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 11:40 | 14.9 | | 0.0667 | 1.15 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 11:40 | 7.29 | | 0.122 | 1.15 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 11:40 | 8.04 | | 0.0759 | 0.345 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:22 | 0.115 | U | 0.115 | 0.115 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 11:40 | 7.30 | | 0.158 | 1.15 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 11:40 | 1.01 | | 0.264 | 0.575 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 11:40 | 0.0368 | U | 0.0368 | 1.15 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 11:40 | 0.848 | U | 0.848 | 1.15 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 11:40 | 210 | | 0.845 | 3.45 | 1.00 | WG6865 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers: *RL = Reporting Limit
 U = Undetected below MDL
 B = Detected between MDL and RL*



IEA

An Aquarion Company

Metals Analysis Results

Prepared For:

000834

Dvirka & Bartilucci

IEA Sample No.: 64087005

Client ID: DSAC22-4

Matrix: Soil

Units: mg/kg

Sample Date: 09/13/96

Percent Solids: 94.5

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 11:46 | 0.116 | U | 0.116 | 0.635 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 11:46 | 1.28 | | 0.298 | 0.846 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 11:46 | 0.115 | B | 0.0106 | 0.423 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 11:46 | 0.0275 | B | 0.0180 | 0.423 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 11:46 | 7.09 | | 0.0614 | 1.06 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 11:46 | 3.70 | | 0.112 | 1.06 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 11:46 | 2.16 | | 0.0698 | 0.317 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:24 | 0.106 | U | 0.106 | 0.106 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 11:46 | 3.26 | | 0.145 | 1.06 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 11:46 | 0.361 | B | 0.242 | 0.529 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 11:46 | 0.0339 | U | 0.0339 | 1.06 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 11:46 | 0.780 | U | 0.780 | 1.06 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 11:46 | 10.7 | | 0.777 | 3.17 | 1.00 | WG6865 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



IEA

An Aquarion Company

Metals Analysis Results

Prepared For:

Dvirka & Bartilucci

000835

Client ID: DSAC30-2

Sample Date: 09/13/96

IEA Sample No.: 64087006

Matrix: Soil

Units: mg/kg

Percent Solids: 95.2

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 11:51 | 0.122 | B | 0.116 | 0.630 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 11:51 | 1.51 | | 0.296 | 0.840 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 11:51 | 0.214 | B | 0.0105 | 0.420 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 11:51 | 0.235 | B | 0.0178 | 0.420 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 11:51 | 6.22 | | 0.0609 | 1.05 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 11:51 | 4.65 | | 0.111 | 1.05 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 11:51 | 4.20 | | 0.0693 | 0.315 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:26 | 0.105 | U | 0.105 | 0.105 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 11:51 | 2.57 | | 0.144 | 1.05 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 11:51 | 0.491 | B | 0.240 | 0.525 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 11:51 | 0.0336 | U | 0.0336 | 1.05 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 11:51 | 0.774 | U | 0.774 | 1.05 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 11:51 | 12.8 | | 0.771 | 3.15 | 1.00 | WG6865 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



IEA

An Aquarion Company

Metals Analysis Results

Prepared For:

000836

Dvirka & Bartilucci

IEA Sample No.: 64087007

Client ID: DSAC32-4

Matrix: Soil

Units: mg/kg

Sample Date: 09/13/96

Percent Solids: 74.8

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 11:57 | 0.147 | U | 0.147 | 0.802 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 11:57 | 3.32 | | 0.377 | 1.07 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 11:57 | 0.313 | B | 0.0134 | 0.535 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 11:57 | 0.123 | B | 0.0227 | 0.535 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 11:57 | 11.5 | | 0.0775 | 1.34 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 11:57 | 8.21 | | 0.142 | 1.34 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 11:57 | 11.8 | | 0.0882 | 0.401 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:28 | 0.134 | U | 0.134 | 0.134 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 11:57 | 6.05 | | 0.183 | 1.34 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 11:57 | 0.746 | | 0.306 | 0.668 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 11:57 | 0.0428 | U | 0.0428 | 1.34 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 11:57 | 0.985 | U | 0.985 | 1.34 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 11:57 | 28.4 | | 0.981 | 4.01 | 1.00 | WG6865 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



IEA

An Aquarion Company

Metals Analysis Results

Prepared For:

Dvirka & Bartilucci

000837

IEA Sample No.: 64087008

Matrix: Soil

Units: mg/kg

Client ID: VCBD0-2

Sample Date: 09/13/96

Percent Solids: 86.0

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 12:02 | 0.128 | U | 0.128 | 0.698 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 12:02 | 2.96 | | 0.328 | 0.930 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 12:02 | 0.191 | B | 0.0116 | 0.465 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 12:02 | 0.215 | B | 0.0198 | 0.465 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 12:02 | 9.29 | | 0.0674 | 1.16 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 12:02 | 7.91 | | 0.123 | 1.16 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 12:02 | 10.3 | | 0.0767 | 0.349 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:30 | 0.116 | U | 0.116 | 0.116 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 12:02 | 4.77 | | 0.159 | 1.16 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 12:02 | 0.642 | | 0.266 | 0.581 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 12:02 | 0.0372 | U | 0.0372 | 1.16 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 12:02 | 0.857 | U | 0.857 | 1.16 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 12:02 | 46.6 | | 0.853 | 3.49 | 1.00 | WG6865 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



IEA

An Aquarion Company

Metals Analysis Results

Prepared For:

000838

Dvirka & Bartilucci

IEA Sample No.: 64087009

Matrix: Soil

Percent Solids: 90.5

Units: mg/kg

Client ID: VCBD2-4

Sample Date: 09/13/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 12:08 | 0.122 | U | 0.122 | 0.663 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 12:08 | 1.56 | | 0.312 | 0.884 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 12:08 | 0.150 | B | 0.0110 | 0.442 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 12:08 | 0.0387 | B | 0.0188 | 0.442 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 12:08 | 7.46 | | 0.0641 | 1.10 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 12:08 | 4.38 | | 0.117 | 1.10 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 12:08 | 4.11 | | 0.0729 | 0.331 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:32 | 0.110 | U | 0.110 | 0.110 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 12:08 | 3.00 | | 0.151 | 1.10 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 12:08 | 0.562 | | 0.253 | 0.552 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 12:08 | 0.0873 | B | 0.0354 | 1.10 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 12:08 | 0.814 | U | 0.814 | 1.10 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 12:08 | 13.2 | | 0.811 | 3.31 | 1.00 | WG6865 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit

Metals Analysis Results

Prepared For:
Dvirka & Bartilucci

00083D

IEA Sample No.: 64087010

Client ID: FCSA0-2

Matrix: Soil

Units: mg/kg

Sample Date: 09/13/96

Percent Solids: 84.2

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 12:13 | 0.363 | B | 0.131 | 0.712 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 12:13 | 4.50 | | 0.335 | 0.950 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 12:13 | 0.202 | B | 0.0119 | 0.475 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 12:13 | 0.628 | | 0.0202 | 0.475 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 12:13 | 10.7 | | 0.0689 | 1.19 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 12:13 | 8.33 | | 0.126 | 1.19 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 12:13 | 31.5 | | 0.0784 | 0.356 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:35 | 0.169 | | 0.119 | 0.119 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 12:13 | 5.75 | | 0.163 | 1.19 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 12:13 | 0.950 | | 0.272 | 0.594 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 12:13 | 0.0689 | B | 0.0380 | 1.19 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 12:13 | 0.875 | U | 0.875 | 1.19 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 12:13 | 383 | | 0.872 | 3.56 | 1.00 | WG6865 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit

**IEA**

An Aquarion Company

Metals Analysis Results

0008-40

Prepared For:

Dvirka & Bartilucci**IEA Sample No.: 64087011**

Matrix: Soil

Percent Solids: 94.5

Units: mg/kg

Client ID: FCSA2-4

Sample Date: 09/13/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 12:18 | 0.116 | U | 0.116 | 0.635 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 12:18 | 1.32 | | 0.298 | 0.846 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 12:18 | 0.123 | B | 0.0106 | 0.423 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 12:18 | 0.0487 | B | 0.0180 | 0.423 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 12:18 | 5.97 | | 0.0614 | 1.06 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 12:18 | 3.43 | | 0.112 | 1.06 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 12:18 | 1.38 | | 0.0698 | 0.317 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:37 | 0.106 | U | 0.106 | 0.106 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 12:18 | 2.14 | | 0.145 | 1.06 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 12:18 | 0.348 | B | 0.242 | 0.529 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 12:18 | 0.0339 | U | 0.0339 | 1.06 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 12:18 | 0.780 | U | 0.780 | 1.06 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 12:18 | 7.63 | | 0.777 | 3.17 | 1.00 | WG6865 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids**Qualifiers:**

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**



IEA

An Aquarion Company

Metals Analysis Results

000841

Prepared For:

Dvirka & Bartilucci

Client ID: RB-1-25-27

Sample Date: 09/13/96

IEA Sample No.: 64087014

Matrix: Soil

Units: mg/kg

Percent Solids: 96.6

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 12:24 | 0.114 | U | 0.114 | 0.621 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 12:24 | 1.70 | | 0.292 | 0.828 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 12:24 | 0.0497 | B | 0.0104 | 0.414 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 12:24 | 0.0549 | B | 0.0176 | 0.414 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 12:24 | 9.11 | | 0.0600 | 1.04 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 12:24 | 7.57 | | 0.110 | 1.04 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 12:24 | 0.957 | | 0.0683 | 0.310 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:39 | 0.104 | U | 0.104 | 0.104 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 12:24 | 1.00 | B | 0.142 | 1.04 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 12:24 | 0.237 | U | 0.237 | 0.518 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 12:24 | 0.0331 | U | 0.0331 | 1.04 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 12:24 | 0.763 | U | 0.763 | 1.04 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 12:24 | 8.39 | | 0.760 | 3.10 | 1.00 | WG6865 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



IEA

An Aquarion Company

Metals Analysis Results

Prepared For:

000842

Dvirka & Bartilucci

IEA Sample No.: 64087015MS

Matrix: Soil

Percent Solids: 94.9

Units: mg/kg

Client ID: RB14547-MSMS

Sample Date: 09/13/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 12:51 | 49.7 | | 0.116 | 0.632 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 12:51 | 53.5 | | 0.297 | 0.843 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 12:51 | 53.0 | | 0.0105 | 0.421 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 12:51 | 48.9 | | 0.0179 | 0.421 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 12:51 | 74.1 | | 0.0611 | 1.05 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 12:51 | 54.3 | | 0.112 | 1.05 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 12:51 | 51.5 | | 0.0695 | 0.316 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:06 | 0.616 | | 0.105 | 0.105 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 12:51 | 50.7 | | 0.144 | 1.05 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 12:51 | 48.4 | | 0.241 | 0.527 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 12:51 | 5.18 | | 0.0337 | 1.05 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 12:51 | 49.9 | | 0.777 | 1.05 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 12:51 | 59.5 | | 0.773 | 3.16 | 1.00 | WG6865 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



IEA

An Aquarion Company

Metals Analysis Results

Prepared For:
Dvirka & Bartilucci

000843

IEA Sample No.: 64087016DUP

Client ID: RB14547MSDDUP

Matrix: Soil

Units: mg/kg

Sample Date: 09/13/96

Percent Solids: 94.9

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 12:45 | 0.141 | B | 0.116 | 0.632 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 12:45 | 6.80 | | 0.297 | 0.843 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 12:45 | 0.183 | B | 0.0105 | 0.421 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 12:45 | 0.0295 | B | 0.0179 | 0.421 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 12:45 | 15.5 | | 0.0611 | 1.05 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 12:45 | 2.32 | | 0.112 | 1.05 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 12:45 | 1.88 | | 0.0695 | 0.316 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:04 | 0.105 | U | 0.105 | 0.105 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 12:45 | 1.88 | | 0.144 | 1.05 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 12:45 | 0.917 | | 0.241 | 0.527 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 12:45 | 0.0337 | U | 0.0337 | 1.05 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 12:45 | 0.777 | U | 0.777 | 1.05 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 12:45 | 12.7 | | 0.773 | 3.16 | 1.00 | WG6865 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**



IEA

An Aquarion Company

Metals Analysis Results

000844

Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64087017

Matrix: Soil

Percent Solids: 96.2

Units: mg/kg

Client ID: RB-145-47

Sample Date: 09/13/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 12:40 | 0.367 | B | 0.114 | 0.624 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 12:40 | 4.24 | | 0.293 | 0.832 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 12:40 | 0.139 | B | 0.0104 | 0.416 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 12:40 | 0.0551 | B | 0.0177 | 0.416 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 12:40 | 12.8 | | 0.0603 | 1.04 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 12:40 | 2.27 | | 0.110 | 1.04 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 12:40 | 1.78 | | 0.0686 | 0.312 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:02 | 0.104 | U | 0.104 | 0.104 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 12:40 | 1.31 | | 0.142 | 1.04 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 12:40 | 0.931 | | 0.238 | 0.520 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 12:40 | 0.0676 | B | 0.0333 | 1.04 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 12:40 | 0.766 | U | 0.766 | 1.04 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 12:40 | 9.24 | | 0.763 | 3.12 | 1.00 | WG6865 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit

**IEA**

An Aquarion Company

Metals Analysis Results**000815**

Prepared For:

Dvirka & Bartilucci

Client ID: RB-165-67

Sample Date: 09/13/96

IEA Sample No.: 64087018

Matrix: Soil

Units: mg/kg

Percent Solids: 81.3

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/17/96 13:13 | 0.135 | U | 0.135 | 0.738 | 1.00 | WG6865 |
| 7440-38-2 | Arsenic | ICP-TR | 09/17/96 13:13 | 2.63 | | 0.347 | 0.984 | 1.00 | WG6865 |
| 7440-41-7 | Beryllium | ICP-TR | 09/17/96 13:13 | 0.0541 | B | 0.0123 | 0.492 | 1.00 | WG6865 |
| 7440-43-9 | Cadmium | ICP-TR | 09/17/96 13:13 | 0.0418 | B | 0.0209 | 0.492 | 1.00 | WG6865 |
| 7440-47-3 | Chromium | ICP-TR | 09/17/96 13:13 | 4.41 | | 0.0713 | 1.23 | 1.00 | WG6865 |
| 7440-50-8 | Copper | ICP-TR | 09/17/96 13:13 | 4.53 | | 0.130 | 1.23 | 1.00 | WG6865 |
| 7439-92-1 | Lead | ICP-TR | 09/17/96 13:13 | 3.97 | | 0.0812 | 0.369 | 1.00 | WG6865 |
| 7439-97-6 | Mercury | CV | 09/16/96 22:41 | 0.123 | U | 0.123 | 0.123 | 1.00 | WG6872 |
| 7440-02-0 | Nickel | ICP-TR | 09/17/96 13:13 | 0.765 | B | 0.168 | 1.23 | 1.00 | WG6865 |
| 7782-49-2 | Selenium | ICP-TR | 09/17/96 13:13 | 0.282 | U | 0.282 | 0.615 | 1.00 | WG6865 |
| 7440-22-4 | Silver | ICP-TR | 09/17/96 13:13 | 0.0394 | U | 0.0394 | 1.23 | 1.00 | WG6865 |
| 7440-28-0 | Thallium | ICP-TR | 09/17/96 13:13 | 0.906 | U | 0.906 | 1.23 | 1.00 | WG6865 |
| 7440-66-6 | Zinc | ICP-TR | 09/17/96 13:13 | 7.03 | | 0.903 | 3.69 | 1.00 | WG6865 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64087 Date Sampled: 9/13/96
IEA Sample No: 64087001 Date Received: 9/16/96
Client Sample No: FB-3 Date Extracted: 10/2/96

Extraction (SW846 - 3510) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/7/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 0.1 mg/L.

Comments:

000975

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64087 Date Sampled: 9/13/96
IEA Sample No: 64087002 Date Received: 9/16/96
Client Sample No: DSAC10-2 Date Extracted: 9/27/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 10/1/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.5 mg/kg.

Comments: The sample contains motor oil.

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64087 Date Sampled: 9/13/96
IEA Sample No: 64087003 Date Received: 9/16/96
Client Sample No: DSAC12-4 Date Extracted: 9/27/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 10/2/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.4 mg/kg.

Comments: The sample contains motor oil.

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64087 Date Sampled: 9/13/96
IEA Sample No: 64087004 Date Received: 9/16/96
Client Sample No: DSAC20-2 Date Extracted: 9/27/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 10/2/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.8 mg/kg.

Comments: The sample contains motor oil.

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64087 Date Sampled: 9/13/96
IEA Sample No: 64087005 Date Received: 9/16/96
Client Sample No: DSAC22-4 Date Extracted: 9/27/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/2/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 3.5 mg/kg.

Comments: The sample contains late eluting hydrocarbons not typical of #2 fuel oil.

000993

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64087

Date Sampled: 9/13/96

IEA Sample No: 64087006

Date Received: 9/16/96

Client Sample No: DSAC30-2

Date Extracted: 9/27/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/2/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 3.5 mg/kg.

Comments: The sample contains late eluting hydrocarbons not typical of #2 fuel oil.

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64087

Date Sampled: 9/13/96

IEA Sample No: 64087007

Date Received: 9/16/96

Client Sample No: DSAC32-4

Date Extracted: 9/27/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/2/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 4.4 mg/kg.

Comments: The sample contains late eluting hydrocarbons not typical of #2 fuel oil.

001001

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64087 Date Sampled: 9/13/96
IEA Sample No: 64087008 Date Received: 9/16/96
Client Sample No: VCBD0-2 Date Extracted: 9/27/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 10/2/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.8 mg/kg.

Comments: The sample contains motor oil.

001006

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64087

Date Sampled: 9/13/96

IEA Sample No: 64087012

Date Received: 9/16/96

Client Sample No: TARP0-2

Date Extracted: 9/27/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/2/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 3.5 mg/kg.

Comments: The sample contains motor oil.

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64087 Date Sampled: 9/13/96
IEA Sample No: 64087013 Date Received: 9/16/96
Client Sample No: TARP2-4 Date Extracted: 9/27/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 10/2/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.6 mg/kg.

Comments:

001014

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64087 Date Sampled: 9/13/96
IEA Sample No: 64087014 Date Received: 9/16/96
Client Sample No: RB-1-25-27 Date Extracted: 9/27/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/2/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 3.4 mg/kg.

Comments: The sample contains motor oil.

001017

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64087

Date Sampled: 9/13/96

IEA Sample No: 64087017

Date Received: 9/16/96

Client Sample No: RB-145-47

Date Extracted: 9/27/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 10/2/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.4 mg/kg.

Comments:

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64087

Date Sampled: 9/13/96

IEA Sample No: 64087018

Date Received: 9/16/96

Client Sample No: RB-165-67

Date Extracted: 9/27/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/2/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 4.1 mg/kg.

Comments:

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : WATER

CLIENT ID: FB-3

LAB SAMPLE ID : 64087001
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS :
CONCENTRATION UNITS: mg/l

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | <0.5 | 20-SEP-96 |

Method Detection Limit = .5 mg/L

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: DSAC10-2

LAB SAMPLE ID : 64087002
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 5
PERCENT SOLIDS : 93.06
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 460 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: DSAC12-4

LAB SAMPLE ID : 64087003
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 97.01
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 180 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: DSAC20-2

LAB SAMPLE ID : 64087004
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 86.87
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 88 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEETLAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: DSAC22-4

LAB SAMPLE ID : 64087005
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 94.52
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 38 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: DSAC30-2

LAB SAMPLE ID : 64087006
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 95.19
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 40 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: DSAC32-4

LAB SAMPLE ID : 64087007
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 74.83
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 32 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: VCBDO-2

LAB SAMPLE ID : 64087008
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 85.97
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 270 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: VCBD2-4

LAB SAMPLE ID : 64087009
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 90.49
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | <22 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: FCSA0-2

LAB SAMPLE ID : 64087010
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 84.17
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | <24 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: FCSA2-4

LAB SAMPLE ID : 64087011
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 94.48
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | <21 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: TARP0-2

LAB SAMPLE ID : 64087012
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 92.77
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 150 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: TARP2-4

LAB SAMPLE ID : 64087013
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 90.73
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 130 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: RB-1-25-27

LAB SAMPLE ID : 64087014
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 96.63
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 42 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEETLAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: RB14547-MSMS

LAB SAMPLE ID : 64087015MS
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 94.91
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 100 % Recovery | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: RB14547MSDDUP

LAB SAMPLE ID : 64087016DUP
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 94.91
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 25 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEETLAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: RB-145-47

LAB SAMPLE ID : 64087017
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 96.15
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | <21 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: RB-165-67

LAB SAMPLE ID : 64087018
DATE RECEIVED : 16-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 81.34
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 34 | 24-SEP-96 |

Method Detection Limit = 20 mg/kg

FORM 1
 PEST/PCB ORGANICS ANALYSIS DATA SHEET

000479
 CLIENT ID

FB-3

Lab Name: IEA-NJ

Client: Dvirka & Bartilucci

Matrix: (soil/water): WATER

Lab Sample ID: 64087001

Sample wt/vol: 1000 (g/ml) ml

Lab File ID: D2B42U_020

% Moisture: 0 decanted:

Date Received: 09/16/96

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 09/19/96

Concentrated Extract Volume: 2000 (uL)

Date Analyzed: 09/23/96

Injection Volume: 5.0 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: Y

CAS NO. COMPOUND

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

| | | | |
|------------|--------------|------|---|
| 12674-11-2 | Aroclor-1016 | 0.20 | U |
| 11104-28-2 | Aroclor-1221 | 0.20 | U |
| 11141-16-5 | Aroclor-1232 | 0.20 | U |
| 53469-21-9 | Aroclor-1242 | 0.20 | U |
| 12672-29-6 | Aroclor-1248 | 0.20 | U |
| 11097-69-1 | Aroclor-1254 | 0.20 | U |
| 11096-82-5 | Aroclor-1260 | 0.20 | U |

FORM 1
 PEST/PCB ORGANICS ANALYSIS DATA SHEET

000182
 CLIENT ID

RB-1-25-27

Lab Name: IEA-NJ
 Matrix: (soil/water): SOIL
 Sample wt/vol: 30 (g/ml) g
 % Moisture: 3 decanted: N
 Extraction: (SepF/Cont/Sonc) SONC
 Concentrated Extract Volume: 10000 (uL)
 Injection Volume: 2.0 (uL)
 GPC Cleanup: (Y/N) N pH:

Client: Dvirka & Bartilucci
 Lab Sample ID: 64087014
 Lab File ID: D1B43AD_045
 Date Received: 09/16/96
 Date Extracted: 09/17/96
 Date Analyzed: 09/19/96
 Dilution Factor: 1.00
 Sulfur Cleanup: Y

CAS NO. COMPOUND CONCENTRATION UNITS: Q
 (ug/L or ug/Kg) UG/KG

| | | | |
|------------|--------------|-----|---|
| 12674-11-2 | Aroclor-1016 | 34 | U |
| 11104-28-2 | Aroclor-1221 | 34 | U |
| 11141-16-5 | Aroclor-1232 | 34 | U |
| 53469-21-9 | Aroclor-1242 | 280 | |
| 12672-29-6 | Aroclor-1248 | 34 | U |
| 11097-69-1 | Aroclor-1254 | 34 | U |
| 11096-82-5 | Aroclor-1260 | 34 | U |

FORM 1
 PEST/PCB ORGANICS ANALYSIS DATA SHEET

000489
 CLIENT ID

RB-145-47

Lab Name: IEA-NJ

Client: Dvirka & Bartilucci

Matrix: (soil/water): SOIL

Lab Sample ID: 64087017

Sample wt/vol: 30 (g/ml) g

Lab File ID: D1B43AD_046

% Moisture: 4 decanted: N

Date Received: 09/16/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 09/17/96

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/19/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: Y

CAS NO.

COMPOUND

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

| | | | |
|------------|--------------|----|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 35 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 35 | U |

FORM 1
 PEST/PCB ORGANICS ANALYSIS DATA SHEET

000-495

CLIENT ID

RB-165-67

Lab Name: IEA-NJ

Client: Dvirka & Bartilucci

Matrix: (soil/water): SOIL

Lab Sample ID: 64087018

Sample wt/vol: 30 (g/ml) g

Lab File ID: D1B43AD_049

% Moisture: 19 decanted: N

Date Received: 09/16/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 09/17/96

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/20/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: Y

CAS NO. COMPOUND

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

| | | | |
|------------|--------------|----|---|
| 12674-11-2 | Aroclor-1016 | 41 | U |
| 11104-28-2 | Aroclor-1221 | 41 | U |
| 11141-16-5 | Aroclor-1232 | 41 | U |
| 53469-21-9 | Aroclor-1242 | 41 | U |
| 12672-29-6 | Aroclor-1248 | 41 | U |
| 11097-69-1 | Aroclor-1254 | 41 | U |
| 11096-82-5 | Aroclor-1260 | 41 | U |

FORM 1 PEST

3/90

VOLATILE ORGANICS ANALYSIS DATA SHEET

FB-3

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) WaterLab Sample ID: 64087001Sample wt/vol: 5 (g/mL) mlLab File ID: >EG904Level: (low/med) LOWDate Received: 09/16/96

% Moisture: not dec. _____

Date Analyzed: 09/17/96GC Column: DB-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/l</u> | Q |
|------------|----------------------------|---|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT **000043**

DSAC10-2

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087002Sample wt/vol: 5 (g/mL) gLab File ID: A2223Level: (low/med) LOWDate Received: 09/16/96% Moisture: not dec. 7Date Analyzed: 09/23/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 11 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000046

DSAC12-4

Lab Name: IEA-NJ

Job No. : 64087

Matrix: (soil/water) Soil

Lab Sample ID: 64087003

Sample wt/vol: 5 (g/mL) g

Lab File ID: A2179

Level: (low/med) LOW

Date Received: 09/16/96

% Moisture: not dec. 3

Date Analyzed: 09/20/96

GC Column: RTX-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO. COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

DSAC20-2

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilSample wt/vol: 5 (g/mL) gLevel: (low/med) LOW% Moisture: not dec. 13GC Column: RTX-624 ID: 0.53 (mm)

Soil Extract Volume: _____ (uL)

Lab Sample ID: 64087004Lab File ID: A2224Date Received: 09/16/96Date Analyzed: 09/23/96Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

CAS NO.

COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 11 | U |
| 71-43-2 | Benzene | 6 | U |
| 75-27-4 | Bromodichloromethane | 6 | U |
| 75-25-2 | Bromoform | 6 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 75-15-0 | Carbon Disulfide | 6 | U |
| 56-23-5 | Carbon Tetrachloride | 6 | U |
| 108-90-7 | Chlorobenzene | 6 | U |
| 124-48-1 | Chlorodibromomethane | 6 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 67-66-3 | Chloroform | 6 | U |
| 74-87-3 | Chloromethane | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 6 | U |
| 107-06-2 | 1,2-Dichloroethane | 6 | U |
| 75-35-4 | 1,1-Dichloroethene | 6 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 6 | U |
| 78-87-5 | 1,2-Dichloropropane | 6 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 6 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 6 | U |
| 100-41-4 | Ethylbenzene | 6 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 75-09-2 | Methylene Chloride | 6 | U |
| 100-42-5 | Styrene | 6 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6 | U |
| 127-18-4 | Tetrachloroethene | 6 | U |
| 108-88-3 | Toluene | 6 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 6 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6 | U |
| 79-01-6 | Trichloroethylene | 6 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 1330-20-7 | Xylenes (Total) | 6 | U |

FORM I VOA

000052

CLIENT ID

VOLATILE ORGANICS ANALYSIS DATA SHEET

DSAC22-4

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilSample wt/vol: 5 (g/mL) gLevel: (low/med) LOW% Moisture: not dec. 6GC Column: RTX-624 ID: 0.53 (mm)

Soil Extract Volume: _____ (uL)

Lab Sample ID: 64087005Lab File ID: A2181Date Received: 09/16/96Date Analyzed: 09/20/96Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | | |
|------------|----------------------------|----|---|
| 67-64-1 | Acetone | 11 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

000003

VCBD0-2

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilSample wt/vol: 5 (g/mL) gLevel: (low/med) LOW% Moisture: not dec. 14GC Column: RTX-624 ID: 0.53 (mm)

Soil Extract Volume: _____ (uL)

Lab Sample ID: 64087008Lab File ID: A2227Date Received: 09/16/96Date Analyzed: 09/23/96Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| | | | |
|------------|----------------------------|----|---|
| 67-64-1 | Acetone | 12 | U |
| 71-43-2 | Benzene | 6 | U |
| 75-27-4 | Bromodichloromethane | 6 | U |
| 75-25-2 | Bromoform | 6 | U |
| 74-83-9 | Bromomethane | 12 | U |
| 78-93-3 | 2-Butanone | 12 | U |
| 75-15-0 | Carbon Disulfide | 6 | U |
| 56-23-5 | Carbon Tetrachloride | 6 | U |
| 108-90-7 | Chlorobenzene | 6 | U |
| 124-48-1 | Chlorodibromomethane | 6 | U |
| 75-00-3 | Chloroethane | 12 | U |
| 67-66-3 | Chloroform | 6 | U |
| 74-87-3 | Chloromethane | 12 | U |
| 75-34-3 | 1,1-Dichloroethane | 6 | U |
| 107-06-2 | 1,2-Dichloroethane | 6 | U |
| 75-35-4 | 1,1-Dichloroethene | 6 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 6 | U |
| 78-87-5 | 1,2-Dichloropropane | 6 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 6 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 6 | U |
| 100-41-4 | Ethylbenzene | 6 | U |
| 591-78-6 | 2-Hexanone | 12 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 12 | U |
| 75-09-2 | Methylene Chloride | 6 | U |
| 100-42-5 | Styrene | 6 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6 | U |
| 127-18-4 | Tetrachloroethene | 6 | U |
| 108-88-3 | Toluene | 6 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 6 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6 | U |
| 79-01-6 | Trichloroethylene | 6 | U |
| 75-01-4 | Vinyl Chloride | 12 | U |
| 1330-20-7 | Xylenes (Total) | 6 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

VCBD2-4

Lab Name: IEA-NJ

Job No. : 64087

Matrix: (soil/water) Soil

Lab Sample ID: 64087009

Sample wt/vol: 5 (g/mL) g

Lab File ID: A2228

Level: (low/med) LOW

Date Received: 09/16/96

% Moisture: not dec. 10

Date Analyzed: 09/23/96

GC Column: RTX-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q.

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q. |
|------------|----------------------------|--|----|
| 67-64-1 | Acetone | 11 | U |
| 71-43-2 | Benzene | 6 | U |
| 75-27-4 | Bromodichloromethane | 6 | U |
| 75-25-2 | Bromoform | 6 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 75-15-0 | Carbon Disulfide | 6 | U |
| 56-23-5 | Carbon Tetrachloride | 6 | U |
| 108-90-7 | Chlorobenzene | 6 | U |
| 124-48-1 | Chlorodibromomethane | 6 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 67-66-3 | Chloroform | 6 | U |
| 74-87-3 | Chloromethane | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 6 | U |
| 107-06-2 | 1,2-Dichloroethane | 6 | U |
| 75-35-4 | 1,1-Dichloroethene | 6 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 6 | U |
| 78-87-5 | 1,2-Dichloropropane | 6 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 6 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 6 | U |
| 100-41-4 | Ethylbenzene | 6 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 75-09-2 | Methylene Chloride | 6 | U |
| 100-42-5 | Styrene | 6 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6 | U |
| 127-18-4 | Tetrachloroethene | 6 | U |
| 108-88-3 | Toluene | 6 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 6 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6 | U |
| 79-01-6 | Trichloroethylene | 6 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 1330-20-7 | Xylenes (Total) | 6 | U |

000069

CLIENT ID

VOLATILE ORGANICS ANALYSIS DATA SHEET

FCSA0-2

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087010Sample wt/vol: 5 (g/mL) gLab File ID: A2245Level: (low/med) LOWDate Received: 09/16/96% Moisture: not dec. 16Date Analyzed: 09/24/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 12 | U |
| 71-43-2 | Benzene | 6 | U |
| 75-27-4 | Bromodichloromethane | 6 | U |
| 75-25-2 | Bromoform | 6 | U |
| 74-83-9 | Bromomethane | 12 | U |
| 78-93-3 | 2-Butanone | 12 | U |
| 75-15-0 | Carbon Disulfide | 6 | U |
| 56-23-5 | Carbon Tetrachloride | 6 | U |
| 108-90-7 | Chlorobenzene | 6 | U |
| 124-48-1 | Chlorodibromomethane | 6 | U |
| 75-00-3 | Chloroethane | 12 | U |
| 67-66-3 | Chloroform | 6 | U |
| 74-87-3 | Chloromethane | 12 | U |
| 75-34-3 | 1,1-Dichloroethane | 6 | U |
| 107-06-2 | 1,2-Dichloroethane | 6 | U |
| 75-35-4 | 1,1-Dichloroethene | 6 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 6 | U |
| 78-87-5 | 1,2-Dichloropropane | 6 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 6 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 6 | U |
| 100-41-4 | Ethylbenzene | 6 | U |
| 591-78-6 | 2-Hexanone | 12 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 12 | U |
| 75-09-2 | Methylene Chloride | 6 | U |
| 100-42-5 | Styrene | 6 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6 | U |
| 127-18-4 | Tetrachloroethene | 6 | U |
| 108-88-3 | Toluene | 6 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 6 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6 | U |
| 79-01-6 | Trichloroethylene | 6 | U |
| 75-01-4 | Vinyl Chloride | 12 | U |
| 1330-20-7 | Xylenes (Total) | 6 | U |

FORM I VOA

000072

CLIENT ID

VOLATILE ORGANICS ANALYSIS DATA SHEET

FCSA2-4

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087011Sample wt/vol: 5 (g/mL) gLab File ID: A2187Level: (low/med) LOWDate Received: 09/16/96% Moisture: not dec. 6Date Analyzed: 09/20/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 11 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

TARPO-2

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087012Sample wt/vol: 5 (g/mL) gLab File ID: A2230Level: (low/med) LOWDate Received: 09/16/96% Moisture: not dec. 7Date Analyzed: 09/23/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| | | | |
|------------|----------------------------|----|---|
| 67-64-1 | Acetone | 11 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

TARP2-4

Lab Name: IEA-NJ

Job No. : 64087

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/mL) g

Level: (low/med) LOW

% Moisture: not dec. 9

GC Column: RTX-624 ID: 0.53 (mm)

Soil Extract Volume: _____ (uL)

Lab Sample ID: 64087013

Lab File ID: A2189

Date Received: 09/16/96

Date Analyzed: 09/20/96

Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO. COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 11 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

000081

CLIENT ID

VOLATILE ORGANICS ANALYSIS DATA SHEET

RB-1-25-27

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087014Sample wt/vol: 5 (g/mL) gLab File ID: A2190Level: (low/med) LOWDate Received: 09/16/96% Moisture: not dec. 3Date Analyzed: 09/20/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO. COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

RB-145-47

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087017Sample wt/vol: 5 (g/mL) gLab File ID: A2231Level: (low/med) LOWDate Received: 09/16/96% Moisture: not dec. 4Date Analyzed: 09/24/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000274
CLIENT ID

FB-3

Lab Name: IEA-NJ

Job No. : 64087

Matrix: (soil/water) Water

Lab Sample ID: 64087001

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

Lab File ID: H4843

Level: (low/med) LOW

Date Received: 09/16/96

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

Date Extracted: 09/18/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/09/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/l</u> | Q |
|-----------|-----------------------------|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 10 | U |
| 117-84-0 | Di-n-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(b) Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k) Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a) Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd) Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h) Anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i) Perylene | 10 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000273
CLIENT ID

DSAC10-2

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087002Sample wt/vol: 30 (g/mL) gLab File ID: H4851Level: (low/med) LOWDate Received: 09/16/96% Moisture: 7 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/10/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 350 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 350 | U |
| 95-57-8 | 2-Chlorophenol | 350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 350 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 350 | U |
| 95-48-7 | 2-Methylphenol | 350 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 350 | U |
| 106-44-5 | 4-Methylphenol | 350 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 350 | U |
| 67-72-1 | Hexachloroethane | 350 | U |
| 98-95-3 | Nitrobenzene | 350 | U |
| 78-59-1 | Isophorone | 350 | U |
| 88-75-5 | 2-Nitrophenol | 350 | U |
| 105-67-9 | 2,4-Dimethylphenol | 350 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 350 | U |
| 120-83-2 | 2,4-Dichlorophenol | 350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 106-47-8 | 4-Chloroaniline | 350 | U |
| 87-68-3 | Hexachlorobutadiene | 350 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 350 | U |
| 91-57-6 | 2-Methylnaphthalene | 350 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 350 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 350 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 350 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 350 | U |
| 208-96-8 | Acenaphthylene | 350 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 350 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 38 | J |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CONFIDENTIAL

DSAC10-2

Lab Name: IEA-NJ

Job No. : 64087

Matrix: (soil/water) Soil

Lab Sample ID: 64087002

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4851

Level: (low/med) LOW

Date Received: 09/16/96

% Moisture: 7 decanted: (Y/N) N

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/10/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 350 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 350 | U |
| 84-66-2 | Diethylphthalate | 350 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 350 | U |
| 118-74-1 | Hexachlorobenzene | 350 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 650 | |
| 120-12-7 | Anthracene | 100 | J |
| 86-74-8 | Carbazole | 38 | J |
| 84-74-2 | Di-n-Butylphthalate | 350 | U |
| 206-44-0 | Fluoranthene | 1100 | |
| 129-00-0 | Pyrene | 940 | |
| 85-68-7 | Butylbenzylphthalate | 350 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 350 | U |
| 56-55-3 | Benzo (a) Anthracene | 470 | |
| 218-01-9 | Chrysene | 540 | |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 76 | J |
| 117-84-0 | Di-n-Octylphthalate | 350 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 630 | |
| 207-08-9 | Benzo (k) Fluoranthene | 280 | J |
| 50-32-8 | Benzo (a) Pyrene | 490 | |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 300 | J |
| 53-70-3 | Dibenz (a,h) Anthracene | 80 | J |
| 191-24-2 | Benzo (g,h,i) Perylene | 360 | |

FORM I SV-2

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000290

DSAC12-4

Lab Name: IEA-NJ

Job No. : 64087

Matrix: (soil/water) Soil

Lab Sample ID: 64087003

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4852

Level: (low/med) LOW

Date Received: 09/16/96

% Moisture: 3 decanted: (Y/N) N

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/10/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 340 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 340 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CONFIDENTIAL

DSAC12-4

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087003Sample wt/vol: 30 (g/mL) gLab File ID: H4852Level: (low/med) LOWDate Received: 09/16/96% Moisture: 3 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/10/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

006293A

DSAC22-4

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087005Sample wt/vol: 30 (g/mL) gLab File ID: H4908Level: (low/med) LOWDate Received: 09/16/96% Moisture: 6 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 350 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 350 | U |
| 95-57-8 | 2-Chlorophenol | 350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 350 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 350 | U |
| 95-48-7 | 2-Methylphenol | 350 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 350 | U |
| 106-44-5 | 4-Methylphenol | 350 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 350 | U |
| 67-72-1 | Hexachloroethane | 350 | U |
| 98-95-3 | Nitrobenzene | 350 | U |
| 78-59-1 | Isophorone | 350 | U |
| 88-75-5 | 2-Nitrophenol | 350 | U |
| 105-67-9 | 2,4-Dimethylphenol | 350 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 350 | U |
| 120-83-2 | 2,4-Dichlorophenol | 350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 106-47-8 | 4-Chloroaniline | 350 | U |
| 87-68-3 | Hexachlorobutadiene | 350 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 350 | U |
| 91-57-6 | 2-Methylnaphthalene | 350 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 350 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 350 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 350 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 350 | U |
| 208-96-8 | Acenaphthylene | 350 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 350 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 350 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000291

DSAC22-4

Lab Name: IEA-NJ

Job No. : 64087

Matrix: (soil/water) Soil

Lab Sample ID: 64087005

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4908

Level: (low/med) LOW

Date Received: 09/16/96

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/16/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 350 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 350 | U |
| 84-66-2 | Diethylphthalate | 350 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 350 | U |
| 118-74-1 | Hexachlorobenzene | 350 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 86-74-8 | Carbazole | 350 | U |
| 84-74-2 | Di-n-Butylphthalate | 350 | U |
| 206-44-0 | Fluoranthene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |
| 85-68-7 | Butylbenzylphthalate | 350 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 350 | U |
| 56-55-3 | Benzo (a) Anthracene | 350 | U |
| 218-01-9 | Chrysene | 350 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 350 | U |
| 117-84-0 | Di-n-Octylphthalate | 350 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 350 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 350 | U |
| 50-32-8 | Benzo (a) Pyrene | 350 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 350 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 350 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 350 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DSAC30-2

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087006Sample wt/vol: 30 (g/mL) gLab File ID: H4855Level: (low/med) LOWDate Received: 09/16/96% Moisture: 5 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/10/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 350 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 350 | U |
| 95-57-8 | 2-Chlorophenol | 350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 350 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 350 | U |
| 95-48-7 | 2-Methylphenol | 350 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 350 | U |
| 106-44-5 | 4-Methylphenol | 350 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 350 | U |
| 67-72-1 | Hexachloroethane | 350 | U |
| 98-95-3 | Nitrobenzene | 350 | U |
| 78-59-1 | Isophorone | 350 | U |
| 88-75-5 | 2-Nitrophenol | 350 | U |
| 105-67-9 | 2,4-Dimethylphenol | 350 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 350 | U |
| 120-83-2 | 2,4-Dichlorophenol | 350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 106-47-8 | 4-Chloroaniline | 350 | U |
| 87-68-3 | Hexachlorobutadiene | 350 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 350 | U |
| 91-57-6 | 2-Methylnaphthalene | 350 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 350 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 350 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 350 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 350 | U |
| 208-96-8 | Acenaphthylene | 350 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 350 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 350 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

~~CONFIDENTIAL~~

DSAC30-2

Lab Name: IEA-NJ

Job No. : 64087

Matrix: (soil/water) Soil

Lab Sample ID: 64087006

Sample wt/vol: 30 (g/mL)g

Lab File ID: H4855

Level: (low/med) LOW

Date Received: 09/16/96

% Moisture: 5 decanted: (Y/N) N

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/10/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 350 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 350 | U |
| 84-66-2 | Diethylphthalate | 350 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 350 | U |
| 118-74-1 | Hexachlorobenzene | 350 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 86-74-8 | Carbazole | 350 | U |
| 84-74-2 | Di-n-Butylphthalate | 350 | U |
| 206-44-0 | Fluoranthene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |
| 85-68-7 | Butylbenzylphthalate | 350 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 350 | U |
| 56-55-3 | Benzo (a) Anthracene | 350 | U |
| 218-01-9 | Chrysene | 350 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 350 | U |
| 117-84-0 | Di-n-Octylphthalate | 350 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 350 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 350 | U |
| 50-32-8 | Benzo (a) Pyrene | 350 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 350 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 350 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 350 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DSAC32-4

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087007Sample wt/vol: 30 (g/mL) gLab File ID: H4856Level: (low/med) LOWDate Received: 09/16/96% Moisture: 25 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/10/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 440 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 440 | U |
| 95-57-8 | 2-Chlorophenol | 440 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 440 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 440 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 440 | U |
| 95-48-7 | 2-Methylphenol | 440 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 440 | U |
| 106-44-5 | 4-Methylphenol | 440 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 440 | U |
| 67-72-1 | Hexachloroethane | 440 | U |
| 98-95-3 | Nitrobenzene | 440 | U |
| 78-59-1 | Isophorone | 440 | U |
| 88-75-5 | 2-Nitrophenol | 440 | U |
| 105-67-9 | 2,4-Dimethylphenol | 440 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 440 | U |
| 120-83-2 | 2,4-Dichlorophenol | 440 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 440 | U |
| 91-20-3 | Naphthalene | 440 | U |
| 106-47-8 | 4-Chloroaniline | 440 | U |
| 87-68-3 | Hexachlorobutadiene | 440 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 440 | U |
| 91-57-6 | 2-Methylnaphthalene | 440 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 440 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 440 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2300 | U |
| 91-58-7 | 2-Chloronaphthalene | 440 | U |
| 88-74-4 | 2-Nitroaniline | 2300 | U |
| 131-11-3 | Dimethylphthalate | 440 | U |
| 208-96-8 | Acenaphthylene | 440 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 440 | U |
| 99-09-2 | 3-Nitroaniline | 2300 | U |
| 83-32-9 | Acenaphthene | 440 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000302
CLIENT ID

DSAC32-4

Lab Name: IEA-NJ

Job No. : 64087

Matrix: (soil/water) Soil

Lab Sample ID: 64087007

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4856

Level: (low/med) LOW

Date Received: 09/16/96

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

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/10/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 2300 | U |
| 100-02-7 | 4-Nitrophenol | 2300 | U |
| 132-64-9 | Dibenzofuran | 440 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 440 | U |
| 84-66-2 | Diethylphthalate | 440 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 440 | U |
| 86-73-7 | Fluorene | 440 | U |
| 100-01-6 | 4-Nitroaniline | 2300 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 2300 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 440 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 440 | U |
| 118-74-1 | Hexachlorobenzene | 440 | U |
| 87-86-5 | Pentachlorophenol | 2300 | U |
| 85-01-8 | Phenanthrene | 74 | J |
| 120-12-7 | Anthracene | 440 | U |
| 86-74-8 | Carbazole | 440 | U |
| 84-74-2 | Di-n-Butylphthalate | 440 | U |
| 206-44-0 | Fluoranthene | 130 | J |
| 129-00-0 | Pyrene | 140 | J |
| 85-68-7 | Butylbenzylphthalate | 440 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 440 | U |
| 56-55-3 | Benzo (a) Anthracene | 78 | J |
| 218-01-9 | Chrysene | 80 | J |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 440 | U |
| 117-84-0 | Di-n-Octylphthalate | 440 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 85 | J |
| 207-08-9 | Benzo (k) Fluoranthene | 440 | U |
| 50-32-8 | Benzo (a) Pyrene | 68 | J |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 440 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 440 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 47 | J |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

090.100
CLIENT ID

VCBD0-2

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087008Sample wt/vol: 30 (g/mL) gLab File ID: H4857Level: (low/med) LOWDate Received: 09/16/96% Moisture: 14 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/10/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 380 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 380 | U |
| 95-57-8 | 2-Chlorophenol | 380 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 380 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 380 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 380 | U |
| 95-48-7 | 2-Methylphenol | 380 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 380 | U |
| 106-44-5 | 4-Methylphenol | 380 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 380 | U |
| 67-72-1 | Hexachloroethane | 380 | U |
| 98-95-3 | Nitrobenzene | 380 | U |
| 78-59-1 | Isophorone | 380 | U |
| 88-75-5 | 2-Nitrophenol | 380 | U |
| 105-67-9 | 2,4-Dimethylphenol | 380 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 380 | U |
| 120-83-2 | 2,4-Dichlorophenol | 380 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 380 | U |
| 91-20-3 | Naphthalene | 380 | U |
| 106-47-8 | 4-Chloroaniline | 380 | U |
| 87-68-3 | Hexachlorobutadiene | 380 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 380 | U |
| 91-57-6 | 2-Methylnaphthalene | 380 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 380 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 380 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2000 | U |
| 91-58-7 | 2-Chloronaphthalene | 380 | U |
| 88-74-4 | 2-Nitroaniline | 2000 | U |
| 131-11-3 | Dimethylphthalate | 380 | U |
| 208-96-8 | Acenaphthylene | 380 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 380 | U |
| 99-09-2 | 3-Nitroaniline | 2000 | U |
| 83-32-9 | Acenaphthene | 380 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CL ~~000~~ 011

VCBD0-2

Lab Name: IEA-NJ

Job No. : 64087

Matrix: (soil/water) Soil

Lab Sample ID: 64087008

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4857

Level: (low/med) LOW

Date Received: 09/16/96

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

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/10/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| | | | |
|-----------|-----------------------------|------|---|
| 51-28-5 | 2,4-Dinitrophenol | 2000 | U |
| 100-02-7 | 4-Nitrophenol | 2000 | U |
| 132-64-9 | Dibenzofuran | 380 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 380 | U |
| 84-66-2 | Diethylphthalate | 380 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 380 | U |
| 86-73-7 | Fluorene | 380 | U |
| 100-01-6 | 4-Nitroaniline | 2000 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 2000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 380 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 380 | U |
| 118-74-1 | Hexachlorobenzene | 380 | U |
| 87-86-5 | Pentachlorophenol | 2000 | U |
| 85-01-8 | Phenanthrene | 380 | U |
| 120-12-7 | Anthracene | 380 | U |
| 86-74-8 | Carbazole | 380 | U |
| 84-74-2 | Di-n-Butylphthalate | 380 | U |
| 206-44-0 | Fluoranthene | 380 | U |
| 129-00-0 | Pyrene | 380 | U |
| 85-68-7 | Butylbenzylphthalate | 380 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 380 | U |
| 56-55-3 | Benzo (a) Anthracene | 380 | U |
| 218-01-9 | Chrysene | 380 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 120 | J |
| 117-84-0 | Di-n-Octylphthalate | 380 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 380 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 380 | U |
| 50-32-8 | Benzo (a) Pyrene | 380 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 380 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 380 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 380 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000.15
CLIENT ID

VCBD2-4

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087009Sample wt/vol: 30 (g/mL) gLab File ID: H4858Level: (low/med) LOWDate Received: 09/16/96% Moisture: 10 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/10/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 370 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 370 | U |
| 95-57-8 | 2-Chlorophenol | 370 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 370 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 370 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 370 | U |
| 95-48-7 | 2-Methylphenol | 370 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 370 | U |
| 106-44-5 | 4-Methylphenol | 370 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 370 | U |
| 67-72-1 | Hexachloroethane | 370 | U |
| 98-95-3 | Nitrobenzene | 370 | U |
| 78-59-1 | Isophorone | 370 | U |
| 88-75-5 | 2-Nitrophenol | 370 | U |
| 105-67-9 | 2,4-Dimethylphenol | 370 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 370 | U |
| 120-83-2 | 2,4-Dichlorophenol | 370 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 370 | U |
| 91-20-3 | Naphthalene | 370 | U |
| 106-47-8 | 4-Chloroaniline | 370 | U |
| 87-68-3 | Hexachlorobutadiene | 370 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 370 | U |
| 91-57-6 | 2-Methylnaphthalene | 370 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 370 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 370 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1900 | U |
| 91-58-7 | 2-Chloronaphthalene | 370 | U |
| 88-74-4 | 2-Nitroaniline | 1900 | U |
| 131-11-3 | Dimethylphthalate | 370 | U |
| 208-96-8 | Acenaphthylene | 370 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 370 | U |
| 99-09-2 | 3-Nitroaniline | 1900 | U |
| 83-32-9 | Acenaphthene | 370 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000316
CLIENT ID

VCBD2-4

Lab Name: IEA-NJ

Job No. : 64087

Matrix: (soil/water) Soil

Lab Sample ID: 64087009

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4858

Level: (low/med) LOW

Date Received: 09/16/96

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/10/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1900 | U |
| 100-02-7 | 4-Nitrophenol | 1900 | U |
| 132-64-9 | Dibenzofuran | 370 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 370 | U |
| 84-66-2 | Diethylphthalate | 370 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 370 | U |
| 86-73-7 | Fluorene | 370 | U |
| 100-01-6 | 4-Nitroaniline | 1900 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1900 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 370 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 370 | U |
| 118-74-1 | Hexachlorobenzene | 370 | U |
| 87-86-5 | Pentachlorophenol | 1900 | U |
| 85-01-8 | Phenanthrene | 370 | U |
| 120-12-7 | Anthracene | 370 | U |
| 86-74-8 | Carbazole | 370 | U |
| 84-74-2 | Di-n-Butylphthalate | 370 | U |
| 206-44-0 | Fluoranthene | 370 | U |
| 129-00-0 | Pyrene | 370 | U |
| 85-68-7 | Butylbenzylphthalate | 370 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 370 | U |
| 56-55-3 | Benzo (a) Anthracene | 370 | U |
| 218-01-9 | Chrysene | 370 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 43 | J |
| 117-84-0 | Di-n-Octylphthalate | 370 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 370 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 370 | U |
| 50-32-8 | Benzo (a) Pyrene | 370 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 370 | U |
| 53-70-3 | Dibenz (a,h) Anthracene | 370 | U |
| 191-24-2 | Benzo (g,h,i) Perylene | 370 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FCSA0-2

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087010Sample wt/vol: 30 (g/mL) gLab File ID: H4859Level: (low/med) LOWDate Received: 09/16/96% Moisture: 16 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/10/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO. COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 390 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 390 | U |
| 95-57-8 | 2-Chlorophenol | 390 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 390 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 390 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 390 | U |
| 95-48-7 | 2-Methylphenol | 390 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 390 | U |
| 106-44-5 | 4-Methylphenol | 390 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 390 | U |
| 67-72-1 | Hexachloroethane | 390 | U |
| 98-95-3 | Nitrobenzene | 390 | U |
| 78-59-1 | Isophorone | 390 | U |
| 88-75-5 | 2-Nitrophenol | 390 | U |
| 105-67-9 | 2,4-Dimethylphenol | 390 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 390 | U |
| 120-83-2 | 2,4-Dichlorophenol | 390 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 390 | U |
| 91-20-3 | Naphthalene | 390 | U |
| 106-47-8 | 4-Chloroaniline | 390 | U |
| 87-68-3 | Hexachlorobutadiene | 390 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 390 | U |
| 91-57-6 | 2-Methylnaphthalene | 390 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 390 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 390 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2000 | U |
| 91-58-7 | 2-Chloronaphthalene | 390 | U |
| 88-74-4 | 2-Nitroaniline | 2000 | U |
| 131-11-3 | Dimethylphthalate | 390 | U |
| 208-96-8 | Acenaphthylene | 390 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 390 | U |
| 99-09-2 | 3-Nitroaniline | 2000 | U |
| 83-32-9 | Acenaphthene | 390 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FCSA0-2

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087010Sample wt/vol: 30 (g/mL) gLab File ID: H4859Level: (low/med) LOWDate Received: 09/16/96% Moisture: 16 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/10/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | | Q |
|---------|----------|--|--|---|
|---------|----------|--|--|---|

| | | | |
|-----------|-----------------------------|------|---|
| 51-28-5 | 2,4-Dinitrophenol | 2000 | U |
| 100-02-7 | 4-Nitrophenol | 2000 | U |
| 132-64-9 | Dibenzofuran | 390 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 390 | U |
| 84-66-2 | Diethylphthalate | 390 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 390 | U |
| 86-73-7 | Fluorene | 390 | U |
| 100-01-6 | 4-Nitroaniline | 2000 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 2000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 390 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 390 | U |
| 118-74-1 | Hexachlorobenzene | 390 | U |
| 87-86-5 | Pentachlorophenol | 2000 | U |
| 85-01-8 | Phenanthrene | 390 | U |
| 120-12-7 | Anthracene | 390 | U |
| 86-74-8 | Carbazole | 390 | U |
| 84-74-2 | Di-n-Butylphthalate | 390 | U |
| 206-44-0 | Fluoranthene | 48 | J |
| 129-00-0 | Pyrene | 48 | J |
| 85-68-7 | Butylbenzylphthalate | 390 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 390 | U |
| 56-55-3 | Benzo (a) Anthracene | 42 | J |
| 218-01-9 | Chrysene | 390 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 390 | U |
| 117-84-0 | Di-n-Octylphthalate | 390 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 44 | J |
| 207-08-9 | Benzo (k) Fluoranthene | 390 | U |
| 50-32-8 | Benzo (a) Pyrene | 390 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 390 | U |
| 53-70-3 | Dibenz (a,h) Anthracene | 390 | U |
| 191-24-2 | Benzo (g,h,i) Perylene | 390 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FCSA2-4

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087011Sample wt/vol: 30 (g/mL) gLab File ID: H4860Level: (low/med) LOWDate Received: 09/16/96% Moisture: 6 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/10/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO. COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 350 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 350 | U |
| 95-57-8 | 2-Chlorophenol | 350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 350 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 350 | U |
| 95-48-7 | 2-Methylphenol | 350 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 350 | U |
| 106-44-5 | 4-Methylphenol | 350 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 350 | U |
| 67-72-1 | Hexachloroethane | 350 | U |
| 98-95-3 | Nitrobenzene | 350 | U |
| 78-59-1 | Isophorone | 350 | U |
| 88-75-5 | 2-Nitrophenol | 350 | U |
| 105-67-9 | 2,4-Dimethylphenol | 350 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 350 | U |
| 120-83-2 | 2,4-Dichlorophenol | 350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 106-47-8 | 4-Chloroaniline | 350 | U |
| 87-68-3 | Hexachlorobutadiene | 350 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 350 | U |
| 91-57-6 | 2-Methylnaphthalene | 350 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 350 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 350 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 350 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 350 | U |
| 208-96-8 | Acenaphthylene | 350 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 350 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 350 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000328
CLIENT ID

FCSA2-4

Lab Name: IEA-NJ

Job No. : 64087

Matrix: (soil/water) Soil

Lab Sample ID: 64087011

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4860

Level: (low/med) LOW

Date Received: 09/16/96

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/10/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| | | | |
|-----------|-----------------------------|------|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 350 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 350 | U |
| 84-66-2 | Diethylphthalate | 350 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 350 | U |
| 118-74-1 | Hexachlorobenzene | 350 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 86-74-8 | Carbazole | 350 | U |
| 84-74-2 | Di-n-Butylphthalate | 350 | U |
| 206-44-0 | Fluoranthene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |
| 85-68-7 | Butylbenzylphthalate | 350 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 350 | U |
| 56-55-3 | Benzo(a)Anthracene | 350 | U |
| 218-01-9 | Chrysene | 350 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 350 | U |
| 117-84-0 | Di-n-Octylphthalate | 350 | U |
| 205-99-2 | Benzo(b) Fluoranthene | 350 | U |
| 207-08-9 | Benzo(k) Fluoranthene | 350 | U |
| 50-32-8 | Benzo(a) Pyrene | 350 | U |
| 193-39-5 | Indeno(1,2,3-cd) Pyrene | 350 | U |
| 53-70-3 | Dibenz(a,h) Anthracene | 350 | U |
| 191-24-2 | Benzo(g,h,i) Perylene | 350 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TARPO-2

Lab Name: IEA-NJJob No. : 64087Matrix: (soil/water) SoilLab Sample ID: 64087012Sample wt/vol: 30 (g/mL) gLab File ID: H4861Level: (low/med) LOWDate Received: 09/16/96% Moisture: 7 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/10/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 350 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 350 | U |
| 95-57-8 | 2-Chlorophenol | 350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 350 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 350 | U |
| 95-48-7 | 2-Methylphenol | 350 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 350 | U |
| 106-44-5 | 4-Methylphenol | 350 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 350 | U |
| 67-72-1 | Hexachloroethane | 350 | U |
| 98-95-3 | Nitrobenzene | 350 | U |
| 78-59-1 | Isophorone | 350 | U |
| 88-75-5 | 2-Nitrophenol | 350 | U |
| 105-67-9 | 2,4-Dimethylphenol | 350 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 350 | U |
| 120-83-2 | 2,4-Dichlorophenol | 350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 106-47-8 | 4-Chloroaniline | 350 | U |
| 87-68-3 | Hexachlorobutadiene | 350 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 350 | U |
| 91-57-6 | 2-Methylnaphthalene | 350 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 350 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 350 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 350 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 350 | U |
| 208-96-8 | Acenaphthylene | 350 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 350 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 350 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000346
CLIENT ID

RB-145-47

Lab Name: IEA-NJ

Job No. : 64087

Matrix: (soil/water) Soil

Lab Sample ID: 64087017

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4846

Level: (low/med) LOW

Date Received: 09/16/96

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/09/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 340 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 340 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RB-165-67

Lab Name: IEA-NJ

Job No. : 64087

Matrix: (soil/water) Soil

Lab Sample ID: 64087018

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4864

Level: (low/med) LOW

Date Received: 09/16/96

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

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/10/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 410 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 410 | U |
| 95-57-8 | 2-Chlorophenol | 410 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 410 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 410 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 410 | U |
| 95-48-7 | 2-Methylphenol | 410 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 410 | U |
| 106-44-5 | 4-Methylphenol | 410 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 410 | U |
| 67-72-1 | Hexachloroethane | 410 | U |
| 98-95-3 | Nitrobenzene | 410 | U |
| 78-59-1 | Isophorone | 410 | U |
| 88-75-5 | 2-Nitrophenol | 410 | U |
| 105-67-9 | 2,4-Dimethylphenol | 410 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 410 | U |
| 120-83-2 | 2,4-Dichlorophenol | 410 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 410 | U |
| 91-20-3 | Naphthalene | 410 | U |
| 106-47-8 | 4-Chloroaniline | 410 | U |
| 87-68-3 | Hexachlorobutadiene | 410 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 410 | U |
| 91-57-6 | 2-Methylnaphthalene | 410 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 410 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 410 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2100 | U |
| 91-58-7 | 2-Chloronaphthalene | 410 | U |
| 88-74-4 | 2-Nitroaniline | 2100 | U |
| 131-11-3 | Dimethylphthalate | 410 | U |
| 208-96-8 | Acenaphthylene | 410 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 410 | U |
| 99-09-2 | 3-Nitroaniline | 2100 | U |
| 83-32-9 | Acenaphthene | 410 | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000038

HVAC 10-12

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105002Sample wt/vol: 5 (g/mL) gLab File ID: A2281Level: (low/med) LOWDate Received: 09/17/96% Moisture: not dec. 9Date Analyzed: 09/24/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 11 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CONFIDENTIAL

HVAC 12-14

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105003Sample wt/vol: 5 (g/mL) gLab File ID: A2282Level: (low/med) LOWDate Received: 09/17/96% Moisture: not dec. 4Date Analyzed: 09/24/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000044

WCS2 0-2

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105004Sample wt/vol: 5 (g/mL)gLab File ID: A2283Level: (low/med) LOWDate Received: 09/17/96% Moisture: not dec. 12Date Analyzed: 09/24/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

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

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 11 | U |
| 71-43-2 | Benzene | 6 | U |
| 75-27-4 | Bromodichloromethane | 6 | U |
| 75-25-2 | Bromoform | 6 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 75-15-0 | Carbon Disulfide | 6 | U |
| 56-23-5 | Carbon Tetrachloride | 6 | U |
| 108-90-7 | Chlorobenzene | 6 | U |
| 124-48-1 | Chlorodibromomethane | 6 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 67-66-3 | Chloroform | 6 | U |
| 74-87-3 | Chloromethane | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 6 | U |
| 107-06-2 | 1,2-Dichloroethane | 6 | U |
| 75-35-4 | 1,1-Dichloroethene | 6 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 6 | U |
| 78-87-5 | 1,2-Dichloropropane | 6 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 6 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 6 | U |
| 100-41-4 | Ethylbenzene | 6 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 75-09-2 | Methylene Chloride | 6 | U |
| 100-42-5 | Styrene | 6 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6 | U |
| 127-18-4 | Tetrachloroethene | 6 | U |
| 108-88-3 | Toluene | 6 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 6 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6 | U |
| 79-01-6 | Trichloroethylene | 6 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 1330-20-7 | Xylenes (Total) | 6 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

WCS2 2-4

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105005Sample wt/vol: 5 (g/mL) gLab File ID: A2284Level: (low/med) LOWDate Received: 09/17/96% Moisture: not dec. 2Date Analyzed: 09/25/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000000

WCS1 0-2

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105006Sample wt/vol: 5 (g/mL) gLab File ID: A2380Level: (low/med) LOWDate Received: 09/17/96% Moisture: not dec. 9Date Analyzed: 09/26/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

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

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 11 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000053

WCS1 2-4

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105007Sample wt/vol: 5 (g/mL) gLab File ID: A2286Level: (low/med) LOWDate Received: 09/17/96% Moisture: not dec. 9Date Analyzed: 09/25/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

Q

| CAS NO. | COMPOUND | | |
|------------|----------------------------|----|---|
| 67-64-1 | Acetone | 11 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CONFIDENTIAL

OWS1 16-18

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105008Sample wt/vol: 5 (g/mL) gLab File ID: A2287Level: (low/med) LOWDate Received: 09/17/96% Moisture: not dec. 4Date Analyzed: 09/25/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

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

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

OWS1 18-20

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105011Sample wt/vol: 5 (g/mL) gLab File ID: A2290Level: (low/med) LOWDate Received: 09/17/96% Moisture: not dec. 13Date Analyzed: 09/25/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO. COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 11 | U |
| 71-43-2 | Benzene | 6 | U |
| 75-27-4 | Bromodichloromethane | 6 | U |
| 75-25-2 | Bromoform | 6 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 75-15-0 | Carbon Disulfide | 6 | U |
| 56-23-5 | Carbon Tetrachloride | 6 | U |
| 108-90-7 | Chlorobenzene | 6 | U |
| 124-48-1 | Chlorodibromomethane | 6 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 67-66-3 | Chloroform | 6 | U |
| 74-87-3 | Chloromethane | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 6 | U |
| 107-06-2 | 1,2-Dichloroethane | 6 | U |
| 75-35-4 | 1,1-Dichloroethene | 6 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 6 | U |
| 78-87-5 | 1,2-Dichloropropane | 6 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 6 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 6 | U |
| 100-41-4 | Ethylbenzene | 6 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 75-09-2 | Methylene Chloride | 6 | U |
| 100-42-5 | Styrene | 6 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6 | U |
| 127-18-4 | Tetrachloroethene | 6 | U |
| 108-88-3 | Toluene | 6 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 6 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6 | U |
| 79-01-6 | Trichloroethylene | 6 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 1330-20-7 | Xylenes (Total) | 6 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000012

TAC. 0-2

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105012Sample wt/vol: 5 (g/mL) gLab File ID: A2291Level: (low/med) LOWDate Received: 09/17/96% Moisture: not dec. 21Date Analyzed: 09/25/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

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

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 41 | |
| 71-43-2 | Benzene | 6 | U |
| 75-27-4 | Bromodichloromethane | 6 | U |
| 75-25-2 | Bromoform | 6 | U |
| 74-83-9 | Bromomethane | 13 | U |
| 78-93-3 | 2-Butanone | 13 | U |
| 75-15-0 | Carbon Disulfide | 6 | U |
| 56-23-5 | Carbon Tetrachloride | 6 | U |
| 108-90-7 | Chlorobenzene | 6 | U |
| 124-48-1 | Chlorodibromomethane | 6 | U |
| 75-00-3 | Chloroethane | 13 | U |
| 67-66-3 | Chloroform | 6 | U |
| 74-87-3 | Chloromethane | 13 | U |
| 75-34-3 | 1,1-Dichloroethane | 6 | U |
| 107-06-2 | 1,2-Dichloroethane | 6 | U |
| 75-35-4 | 1,1-Dichloroethene | 6 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 6 | U |
| 78-87-5 | 1,2-Dichloropropane | 6 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 6 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 6 | U |
| 100-41-4 | Ethylbenzene | 6 | U |
| 591-78-6 | 2-Hexanone | 13 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 13 | U |
| 75-09-2 | Methylene Chloride | 6 | U |
| 100-42-5 | Styrene | 6 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6 | U |
| 127-18-4 | Tetrachloroethene | 6 | U |
| 108-88-3 | Toluene | 6 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 6 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6 | U |
| 79-01-6 | Trichloroethylene | 6 | U |
| 75-01-4 | Vinyl Chloride | 13 | U |
| 1330-20-7 | Xylenes (Total) | 6 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

000006

TAC 2-4

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105013Sample wt/vol: 5 (g/mL) gLab File ID: A2292Level: (low/med) LOWDate Received: 09/17/96% Moisture: not dec. 3Date Analyzed: 09/25/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO. COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

000009

CLIENT ID

VOLATILE ORGANICS ANALYSIS DATA SHEET

TAB 0-2

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105014Sample wt/vol: 5 (g/mL) gLab File ID: A2293Level: (low/med) LOWDate Received: 09/17/96% Moisture: not dec. 2Date Analyzed: 09/25/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO. COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

TAB 2-4

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105015Sample wt/vol: 5 (g/mL) gLab File ID: A2343Level: (low/med) LOWDate Received: 09/17/96% Moisture: not dec. 2Date Analyzed: 09/26/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

000075 CLIENT ID

Lab Name: IEA-NJ

Job No. : 64105

ETL1 0-2

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/mL) g

Level: (low/med) LOW

% Moisture: not dec. 3

GC Column: RTX-624 ID: 0.53 (mm)

Soil Extract Volume: _____ (uL)

Lab Sample ID: 64105016

Lab File ID: A2381

Date Received: 09/17/96

Date Analyzed: 09/26/96

Dilution Factor: 1.0

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|------------|----------------------------|----------------------|---|
| 67-64-1 | Acetone | | |
| 71-43-2 | Benzene | 10 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 5 | U |
| 67-66-3 | Chloroform | 10 | U |
| 74-87-3 | Chloromethane | 5 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 5 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 5 | U |
| 1330-20-7 | Xylenes (Total) | 10 | U |
| | | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

01000719

ETL1 2-4

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105017Sample wt/vol: 5 (g/mL) gLab File ID: A2345Level: (low/med) LOWDate Received: 09/17/96% Moisture: not dec. 2Date Analyzed: 09/26/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO. COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

ETL2 0-2

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105018Sample wt/vol: 5 (g/mL) gLab File ID: A2346Level: (low/med) LOWDate Received: 09/17/96% Moisture: not dec. 6Date Analyzed: 09/26/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| | | | |
|------------|----------------------------|----|---|
| 67-64-1 | Acetone | 11 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

ETL2 2-4

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105019Sample wt/vol: 5 (g/mL) gLab File ID: A2383Level: (low/med) LOWDate Received: 09/17/96% Moisture: not dec. 2Date Analyzed: 09/26/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000237

HVAC 10-12

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105002Sample wt/vol: 30 (g/mL) gLab File ID: H4911Level: (low/med) LOWDate Received: 09/17/96% Moisture: 9 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 360 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 360 | U |
| 95-57-8 | 2-Chlorophenol | 360 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 360 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 360 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 360 | U |
| 95-48-7 | 2-Methylphenol | 360 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 360 | U |
| 106-44-5 | 4-Methylphenol | 360 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 360 | U |
| 67-72-1 | Hexachloroethane | 360 | U |
| 98-95-3 | Nitrobenzene | 360 | U |
| 78-59-1 | Isophorone | 360 | U |
| 88-75-5 | 2-Nitrophenol | 360 | U |
| 105-67-9 | 2,4-Dimethylphenol | 360 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 360 | U |
| 120-83-2 | 2,4-Dichlorophenol | 360 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 360 | U |
| 91-20-3 | Naphthalene | 360 | U |
| 106-47-8 | 4-Chloroaniline | 360 | U |
| 87-68-3 | Hexachlorobutadiene | 360 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 360 | U |
| 91-57-6 | 2-Methylnaphthalene | 360 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 360 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 360 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1900 | U |
| 91-58-7 | 2-Chloronaphthalene | 360 | U |
| 88-74-4 | 2-Nitroaniline | 1900 | U |
| 131-11-3 | Dimethylphthalate | 360 | U |
| 208-96-8 | Acenaphthylene | 360 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 360 | U |
| 99-09-2 | 3-Nitroaniline | 1900 | U |
| 83-32-9 | Acenaphthene | 360 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HVAC 10-12

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105002Sample wt/vol: 30 (g/mL) gLab File ID: H4911Level: (low/med) LOWDate Received: 09/17/96% Moisture: 9 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1900 | U |
| 100-02-7 | 4-Nitrophenol | 1900 | U |
| 132-64-9 | Dibenzofuran | 360 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 360 | U |
| 84-66-2 | Diethylphthalate | 360 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 360 | U |
| 86-73-7 | Fluorene | 360 | U |
| 100-01-6 | 4-Nitroaniline | 1900 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1900 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 360 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 360 | U |
| 118-74-1 | Hexachlorobenzene | 360 | U |
| 87-86-5 | Pentachlorophenol | 1900 | U |
| 85-01-8 | Phenanthrene | 360 | U |
| 120-12-7 | Anthracene | 360 | U |
| 86-74-8 | Carbazole | 360 | U |
| 84-74-2 | Di-n-Butylphthalate | 360 | U |
| 206-44-0 | Fluoranthene | 360 | U |
| 129-00-0 | Pyrene | 360 | U |
| 85-68-7 | Butylbenzylphthalate | 360 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 360 | U |
| 56-55-3 | Benzo (a) Anthracene | 360 | U |
| 218-01-9 | Chrysene | 360 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 93 | J |
| 117-84-0 | Di-n-Octylphthalate | 360 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 360 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 360 | U |
| 50-32-8 | Benzo (a) Pyrene | 360 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 360 | U |
| 53-70-3 | Dibenz (a,h) Anthracene | 360 | U |
| 191-24-2 | Benzo (g,h,i) Perylene | 360 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: 000000

HVAC 12-14

Lab Name: IEA-NJ

Job No. : 64105

Matrix: (soil/water) Soil

Lab Sample ID: 64105003

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4912

Level: (low/med) LOW

Date Received: 09/17/96

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 09/20/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/16/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

~~CONFIDENTIAL~~

HVAC 12-14

Lab Name: IEA-NJ

Job No. : 64105

Matrix: (soil/water) Soil

Lab Sample ID: 64105003

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4912

Level: (low/med) LOW

Date Received: 09/17/96

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 09/20/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/16/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | <u>Q</u> |
|-----------|------------------------------|--|----------|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 340 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 340 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

WCS2 0-2

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105004Sample wt/vol: 30 (g/mL) gLab File ID: H4913Level: (low/med) LOWDate Received: 09/17/96% Moisture: 12 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 380 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 380 | U |
| 95-57-8 | 2-Chlorophenol | 380 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 380 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 380 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 380 | U |
| 95-48-7 | 2-Methylphenol | 380 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 380 | U |
| 106-44-5 | 4-Methylphenol | 380 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 380 | U |
| 67-72-1 | Hexachloroethane | 380 | U |
| 98-95-3 | Nitrobenzene | 380 | U |
| 78-59-1 | Isophorone | 380 | U |
| 88-75-5 | 2-Nitrophenol | 380 | U |
| 105-67-9 | 2,4-Dimethylphenol | 38 | J |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 380 | U |
| 120-83-2 | 2,4-Dichlorophenol | 380 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 380 | U |
| 91-20-3 | Naphthalene | 380 | U |
| 106-47-8 | 4-Chloroaniline | 380 | U |
| 87-68-3 | Hexachlorobutadiene | 380 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 380 | U |
| 91-57-6 | 2-Methylnaphthalene | 380 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 380 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 380 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1900 | U |
| 91-58-7 | 2-Chloronaphthalene | 380 | U |
| 88-74-4 | 2-Nitroaniline | 1900 | U |
| 131-11-3 | Dimethylphthalate | 380 | U |
| 208-96-8 | Acenaphthylene | 380 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 380 | U |
| 99-09-2 | 3-Nitroaniline | 1900 | U |
| 83-32-9 | Acenaphthene | 380 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000277
CLIENT ID

WCS2 0-2

Lab Name: IEA-NJ

Job No. : 64105

Matrix: (soil/water) Soil

Lab Sample ID: 64105004

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4913

Level: (low/med) LOW

Date Received: 09/17/96

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 09/20/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/16/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1900 | U |
| 100-02-7 | 4-Nitrophenol | 1900 | U |
| 132-64-9 | Dibenzofuran | 380 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 380 | U |
| 84-66-2 | Diethylphthalate | 380 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 380 | U |
| 86-73-7 | Fluorene | 380 | U |
| 100-01-6 | 4-Nitroaniline | 1900 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1900 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 380 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 380 | U |
| 118-74-1 | Hexachlorobenzene | 380 | U |
| 87-86-5 | Pentachlorophenol | 1900 | U |
| 85-01-8 | Phenanthrene | 380 | U |
| 120-12-7 | Anthracene | 380 | U |
| 86-74-8 | Carbazole | 380 | U |
| 84-74-2 | Di-n-Butylphthalate | 380 | U |
| 206-44-0 | Fluoranthene | 380 | U |
| 129-00-0 | Pyrene | 380 | U |
| 85-68-7 | Butylbenzylphthalate | 380 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 380 | U |
| 56-55-3 | Benzo (a) Anthracene | 380 | U |
| 218-01-9 | Chrysene | 380 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 380 | U |
| 117-84-0 | Di-n-Octylphthalate | 380 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 380 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 380 | U |
| 50-32-8 | Benzo (a) Pyrene | 380 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 380 | U |
| 53-70-3 | Dibenz (a,h) Anthracene | 380 | U |
| 191-24-2 | Benzo (g,h,i) Perylene | 380 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

WCS2 2-4

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105005Sample wt/vol: 30 (g/mL) gLab File ID: H4914Level: (low/med) LOWDate Received: 09/17/96% Moisture: 2 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

CAS NO.

COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1700 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1700 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

WCS2 2-4

Lab Name: IEA-NJ

Job No. : 64105

Matrix: (soil/water) Soil

Lab Sample ID: 64105005

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4914

Level: (low/med) LOW

Date Received: 09/17/96

% Moisture: 2 decanted: (Y/N) N

Date Extracted: 09/20/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/16/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1700 | U |
| 100-02-7 | 4-Nitrophenol | 1700 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1700 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1700 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1700 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 340 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 340 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

WCS1 0-2

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105006Sample wt/vol: 30 (g/mL) gLab File ID: H4915Level: (low/med) LOWDate Received: 09/17/96% Moisture: 9 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 360 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 360 | U |
| 95-57-8 | 2-Chlorophenol | 360 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 360 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 360 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 360 | U |
| 95-48-7 | 2-Methylphenol | 360 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 360 | U |
| 106-44-5 | 4-Methylphenol | 360 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 360 | U |
| 67-72-1 | Hexachloroethane | 360 | U |
| 98-95-3 | Nitrobenzene | 360 | U |
| 78-59-1 | Isophorone | 360 | U |
| 88-75-5 | 2-Nitrophenol | 360 | U |
| 105-67-9 | 2,4-Dimethylphenol | 360 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 360 | U |
| 120-83-2 | 2,4-Dichlorophenol | 360 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 360 | U |
| 91-20-3 | Naphthalene | 360 | U |
| 106-47-8 | 4-Chloroaniline | 360 | U |
| 87-68-3 | Hexachlorobutadiene | 360 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 360 | U |
| 91-57-6 | 2-Methylnaphthalene | 360 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 360 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 360 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1900 | U |
| 91-58-7 | 2-Chloronaphthalene | 360 | U |
| 88-74-4 | 2-Nitroaniline | 1900 | U |
| 131-11-3 | Dimethylphthalate | 360 | U |
| 208-96-8 | Acenaphthylene | 360 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 360 | U |
| 99-09-2 | 3-Nitroaniline | 1900 | U |
| 83-32-9 | Acenaphthene | 360 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

| |
|----------|
| WCS1 0-2 |
|----------|

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105006Sample wt/vol: 30 (g/mL)gLab File ID: H4915Level: (low/med) LOWDate Received: 09/17/96% Moisture: 9 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1900 | U |
| 100-02-7 | 4-Nitrophenol | 1900 | U |
| 132-64-9 | Dibenzofuran | 360 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 360 | U |
| 84-66-2 | Diethylphthalate | 360 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 360 | U |
| 86-73-7 | Fluorene | 360 | U |
| 100-01-6 | 4-Nitroaniline | 1900 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1900 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 360 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 360 | U |
| 118-74-1 | Hexachlorobenzene | 360 | U |
| 87-86-5 | Pentachlorophenol | 1900 | U |
| 85-01-8 | Phenanthrene | 51 | J |
| 120-12-7 | Anthracene | 360 | U |
| 86-74-8 | Carbazole | 360 | U |
| 84-74-2 | Di-n-Butylphthalate | 360 | U |
| 206-44-0 | Fluoranthene | 84 | J |
| 129-00-0 | Pyrene | 74 | J |
| 85-68-7 | Butylbenzylphthalate | 360 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 360 | U |
| 56-55-3 | Benzo(a)Anthracene | 48 | J |
| 218-01-9 | Chrysene | 48 | J |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 360 | U |
| 117-84-0 | Di-n-Octylphthalate | 360 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 58 | J |
| 207-08-9 | Benzo(k)Fluoranthene | 360 | U |
| 50-32-8 | Benzo(a)Pyrene | 45 | J |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 360 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 360 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 360 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

WCS1 2-4

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105007Sample wt/vol: 30 (g/mL) gLab File ID: H4916Level: (low/med) LOWDate Received: 09/17/96% Moisture: 9 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO. COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 360 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 360 | U |
| 95-57-8 | 2-Chlorophenol | 360 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 360 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 360 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 360 | U |
| 95-48-7 | 2-Methylphenol | 360 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 360 | U |
| 106-44-5 | 4-Methylphenol | 360 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 360 | U |
| 67-72-1 | Hexachloroethane | 360 | U |
| 98-95-3 | Nitrobenzene | 360 | U |
| 78-59-1 | Isophorone | 360 | U |
| 88-75-5 | 2-Nitrophenol | 360 | U |
| 105-67-9 | 2,4-Dimethylphenol | 360 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 360 | U |
| 120-83-2 | 2,4-Dichlorophenol | 360 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 360 | U |
| 91-20-3 | Naphthalene | 360 | U |
| 106-47-8 | 4-Chloroaniline | 360 | U |
| 87-68-3 | Hexachlorobutadiene | 360 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 360 | U |
| 91-57-6 | 2-Methylnaphthalene | 360 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 360 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 360 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1900 | U |
| 91-58-7 | 2-Chloronaphthalene | 360 | U |
| 88-74-4 | 2-Nitroaniline | 1900 | U |
| 131-11-3 | Dimethylphthalate | 360 | U |
| 208-96-8 | Acenaphthylene | 360 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 360 | U |
| 99-09-2 | 3-Nitroaniline | 1900 | U |
| 83-32-9 | Acenaphthene | 360 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

WCS1 2-4

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105007Sample wt/vol: 30 (g/mL) gLab File ID: H4916Level: (low/med) LOWDate Received: 09/17/96% Moisture: 9 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: _____CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO.

COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1900 | U |
| 100-02-7 | 4-Nitrophenol | 1900 | U |
| 132-64-9 | Dibenzofuran | 360 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 360 | U |
| 84-66-2 | Diethylphthalate | 360 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 360 | U |
| 86-73-7 | Fluorene | 360 | U |
| 100-01-6 | 4-Nitroaniline | 1900 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1900 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 360 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 360 | U |
| 118-74-1 | Hexachlorobenzene | 360 | U |
| 87-86-5 | Pentachlorophenol | 1900 | U |
| 85-01-8 | Phenanthrene | 360 | U |
| 120-12-7 | Anthracene | 360 | U |
| 86-74-8 | Carbazole | 360 | U |
| 84-74-2 | Di-n-Butylphthalate | 360 | U |
| 206-44-0 | Fluoranthene | 360 | U |
| 129-00-0 | Pyrene | 360 | U |
| 85-68-7 | Butylbenzylphthalate | 360 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 360 | U |
| 56-55-3 | Benzo (a) Anthracene | 360 | U |
| 218-01-9 | Chrysene | 360 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 360 | U |
| 117-84-0 | Di-n-Octylphthalate | 360 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 360 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 360 | U |
| 50-32-8 | Benzo (a) Pyrene | 360 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 360 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 360 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 360 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

OWS1 16-18

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105008Sample wt/vol: 30 (g/mL) gLab File ID: H4917Level: (low/med) LOWDate Received: 09/17/96% Moisture: 4 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000305
CLIENT ID

OWS1 16-18

Lab Name: IEA-NJ

Job No. : 64105

Matrix: (soil/water) Soil

Lab Sample ID: 64105008

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4917

Level: (low/med) LOW

Date Received: 09/17/96

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 09/20/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/16/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 88 | J |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz (a,h) Anthracene | 340 | U |
| 191-24-2 | Benzo (g,h,i) Perylene | 340 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

OWS1 18-20

Lab Name: IEA-NJ

Job No. : 64105

Matrix: (soil/water) Soil

Lab Sample ID: 64105011

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4918

Level: (low/med) LOW

Date Received: 09/17/96

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 09/20/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/16/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 380 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 380 | U |
| 95-57-8 | 2-Chlorophenol | 380 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 380 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 380 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 380 | U |
| 95-48-7 | 2-Methylphenol | 380 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 380 | U |
| 106-44-5 | 4-Methylphenol | 380 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 380 | U |
| 67-72-1 | Hexachloroethane | 380 | U |
| 98-95-3 | Nitrobenzene | 380 | U |
| 78-59-1 | Isophorone | 380 | U |
| 88-75-5 | 2-Nitrophenol | 380 | U |
| 105-67-9 | 2,4-Dimethylphenol | 380 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 380 | U |
| 120-83-2 | 2,4-Dichlorophenol | 380 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 380 | U |
| 91-20-3 | Naphthalene | 380 | U |
| 106-47-8 | 4-Chloroaniline | 380 | U |
| 87-68-3 | Hexachlorobutadiene | 380 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 380 | U |
| 91-57-6 | 2-Methylnaphthalene | 380 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 380 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 380 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2000 | U |
| 91-58-7 | 2-Chloronaphthalene | 380 | U |
| 88-74-4 | 2-Nitroaniline | 2000 | U |
| 131-11-3 | Dimethylphthalate | 380 | U |
| 208-96-8 | Acenaphthylene | 380 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 380 | U |
| 99-09-2 | 3-Nitroaniline | 2000 | U |
| 83-32-9 | Acenaphthene | 380 | U |

000303

CLIENT ID

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

OWS1 18-20

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105011Sample wt/vol: 30 (g/mL) gLab File ID: H4918Level: (low/med) LOWDate Received: 09/17/96% Moisture: 13 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N

pH: _____

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

CAS NO.

COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 2000 | U |
| 100-02-7 | 4-Nitrophenol | 2000 | U |
| 132-64-9 | Dibenzofuran | 380 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 380 | U |
| 84-66-2 | Diethylphthalate | 380 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 380 | U |
| 86-73-7 | Fluorene | 380 | U |
| 100-01-6 | 4-Nitroaniline | 2000 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 2000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 380 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 380 | U |
| 118-74-1 | Hexachlorobenzene | 380 | U |
| 87-86-5 | Pentachlorophenol | 2000 | U |
| 85-01-8 | Phenanthrene | 380 | U |
| 120-12-7 | Anthracene | 380 | U |
| 86-74-8 | Carbazole | 380 | U |
| 84-74-2 | Di-n-Butylphthalate | 380 | U |
| 206-44-0 | Fluoranthene | 380 | U |
| 129-00-0 | Pyrene | 380 | U |
| 85-68-7 | Butylbenzylphthalate | 380 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 380 | U |
| 56-55-3 | Benzo (a) Anthracene | 380 | U |
| 218-01-9 | Chrysene | 380 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 380 | U |
| 117-84-0 | Di-n-Octylphthalate | 380 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 380 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 380 | U |
| 50-32-8 | Benzo (a) Pyrene | 380 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 380 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 380 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 380 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TAC 0-2

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105012Sample wt/vol: 30 (g/mL) gLab File ID: H5061Level: (low/med) LOWDate Received: 09/17/96% Moisture: 21 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/22/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO. COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | Q |
|----------|------------------------------|---|---|
| 108-95-2 | Phenol | 420 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 420 | U |
| 95-57-8 | 2-Chlorophenol | 420 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 420 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 420 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 420 | U |
| 95-48-7 | 2-Methylphenol | 420 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 420 | U |
| 106-44-5 | 4-Methylphenol | 190 | J |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 420 | U |
| 67-72-1 | Hexachloroethane | 420 | U |
| 98-95-3 | Nitrobenzene | 420 | U |
| 78-59-1 | Isophorone | 420 | U |
| 88-75-5 | 2-Nitrophenol | 420 | U |
| 105-67-9 | 2,4-Dimethylphenol | 90 | J |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 420 | U |
| 120-83-2 | 2,4-Dichlorophenol | 420 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 420 | U |
| 91-20-3 | Naphthalene | 420 | U |
| 106-47-8 | 4-Chloroaniline | 420 | U |
| 87-68-3 | Hexachlorobutadiene | 420 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 420 | U |
| 91-57-6 | 2-Methylnaphthalene | 420 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 420 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 420 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2200 | U |
| 91-58-7 | 2-Chloronaphthalene | 420 | U |
| 88-74-4 | 2-Nitroaniline | 2200 | U |
| 131-11-3 | Dimethylphthalate | 420 | U |
| 208-96-8 | Acenaphthylene | 420 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 420 | U |
| 99-09-2 | 3-Nitroaniline | 2200 | U |
| 83-32-9 | Acenaphthene | 420 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000307
CLIENT ID

TAC 0-2

Lab Name: IEA-NJ

Job No. : 64105

Matrix: (soil/water) Soil

Lab Sample ID: 64105012

Sample wt/vol: 30 (g/mL) g

Lab File ID: H5061

Level: (low/med) LOW

Date Received: 09/17/96

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

Date Extracted: 09/20/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/22/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 2200 | U |
| 100-02-7 | 4-Nitrophenol | 2200 | U |
| 132-64-9 | Dibenzofuran | 420 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 420 | U |
| 84-66-2 | Diethylphthalate | 420 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 420 | U |
| 86-73-7 | Fluorene | 420 | U |
| 100-01-6 | 4-Nitroaniline | 2200 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 2200 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 420 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 420 | U |
| 118-74-1 | Hexachlorobenzene | 420 | U |
| 87-86-5 | Pentachlorophenol | 2200 | U |
| 85-01-8 | Phenanthrene | 420 | U |
| 120-12-7 | Anthracene | 420 | U |
| 86-74-8 | Carbazole | 420 | U |
| 84-74-2 | Di-n-Butylphthalate | 110 | J |
| 206-44-0 | Fluoranthene | 110 | J |
| 129-00-0 | Pyrene | 98 | J |
| 85-68-7 | Butylbenzylphthalate | 530 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 420 | U |
| 56-55-3 | Benzo (a) Anthracene | 420 | U |
| 218-01-9 | Chrysene | 81 | J |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 19000 | E |
| 117-84-0 | Di-n-Octylphthalate | 200 | J |
| 205-99-2 | Benzo (b) Fluoranthene | 420 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 420 | U |
| 50-32-8 | Benzo (a) Pyrene | 420 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 420 | U |
| 53-70-3 | Dibenz (a,h) Anthracene | 420 | U |
| 191-24-2 | Benzo (g,h,i) Perylene | 100 | J |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000316

TAC 0-2DL

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105012DLSample wt/vol: 30 (g/mL) gLab File ID: H4941Level: (low/med) LOWDate Received: 09/17/96% Moisture: 21 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 10.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 4200 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 4200 | U |
| 95-57-8 | 2-Chlorophenol | 4200 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 4200 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 4200 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 4200 | U |
| 95-48-7 | 2-Methylphenol | 4200 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 4200 | U |
| 106-44-5 | 4-Methylphenol | 4200 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 4200 | U |
| 67-72-1 | Hexachloroethane | 4200 | U |
| 98-95-3 | Nitrobenzene | 4200 | U |
| 78-59-1 | Isophorone | 4200 | U |
| 88-75-5 | 2-Nitrophenol | 4200 | U |
| 105-67-9 | 2,4-Dimethylphenol | 4200 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 4200 | U |
| 120-83-2 | 2,4-Dichlorophenol | 4200 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4200 | U |
| 91-20-3 | Naphthalene | 4200 | U |
| 106-47-8 | 4-Chloroaniline | 4200 | U |
| 87-68-3 | Hexachlorobutadiene | 4200 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 4200 | U |
| 91-57-6 | 2-Methylnaphthalene | 4200 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 4200 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 4200 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 22000 | U |
| 91-58-7 | 2-Chloronaphthalene | 4200 | U |
| 88-74-4 | 2-Nitroaniline | 22000 | U |
| 131-11-3 | Dimethylphthalate | 4200 | U |
| 208-96-8 | Acenaphthylene | 4200 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 4200 | U |
| 99-09-2 | 3-Nitroaniline | 22000 | U |
| 83-32-9 | Acenaphthene | 4200 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000317

TAC 0-2DL

Lab Name: IEA-NJ

Job No. : 64105

Matrix: (soil/water) Soil

Lab Sample ID: 64105012DL

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4941

Level: (low/med) LOW

Date Received: 09/17/96

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

Date Extracted: 09/20/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/16/96

Injection Volume: 1 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|----|
| 51-28-5 | 2,4-Dinitrophenol | 22000 | U |
| 100-02-7 | 4-Nitrophenol | 22000 | U |
| 132-64-9 | Dibenzofuran | 4200 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 4200 | U |
| 84-66-2 | Diethylphthalate | 4200 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 4200 | U |
| 86-73-7 | Fluorene | 4200 | U |
| 100-01-6 | 4-Nitroaniline | 22000 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 22000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 4200 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 4200 | U |
| 118-74-1 | Hexachlorobenzene | 4200 | U |
| 87-86-5 | Pentachlorophenol | 22000 | U |
| 85-01-8 | Phenanthrene | 4200 | U |
| 120-12-7 | Anthracene | 4200 | U |
| 86-74-8 | Carbazole | 4200 | U |
| 84-74-2 | Di-n-Butylphthalate | 4200 | U |
| 206-44-0 | Fluoranthene | 4200 | U |
| 129-00-0 | Pyrene | 4200 | U |
| 85-68-7 | Butylbenzylphthalate | 600 | JD |
| 91-94-1 | 3,3'-Dichlorobenzidine | 4200 | U |
| 56-55-3 | Benzo(a)Anthracene | 4200 | U |
| 218-01-9 | Chrysene | 4200 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 14000 | D |
| 117-84-0 | Di-n-Octylphthalate | 4200 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 4200 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 4200 | U |
| 50-32-8 | Benzo(a)Pyrene | 4200 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 4200 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 4200 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 4200 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000301

TAC 2-4

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105013Sample wt/vol: 30 (g/mL) gLab File ID: H4942Level: (low/med) LOWDate Received: 09/17/96% Moisture: 3 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

CAS NO.

COMPOUND

| CAS NO. | COMPOUND | (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|------------------------------|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000322
CLIENT ID

TAC 2-4

Lab Name: IEA-NJ

Job No. : 64105

Matrix: (soil/water) Soil

Lab Sample ID: 64105013

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4942

Level: (low/med) LOW

Date Received: 09/17/96

% Moisture: 3 decanted: (Y/N) N

Date Extracted: 09/20/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/16/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 62 | J |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 340 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 340 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

00001111 ID

TAB 0-2

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105014Sample wt/vol: 30 (g/mL) gLab File ID: H4943Level: (low/med) LOWDate Received: 09/17/96% Moisture: 2 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1700 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1700 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000327
CLIENT ID

TAB 0-2

Lab Name: IEA-NJ

Job No. : 64105

Matrix: (soil/water) Soil

Lab Sample ID: 64105014

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4943

Level: (low/med) LOW

Date Received: 09/17/96

% Moisture: 2 decanted: (Y/N) N

Date Extracted: 09/20/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/16/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO. COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1700 | U |
| 100-02-7 | 4-Nitrophenol | 1700 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1700 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1700 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1700 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo(a)Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo(b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo(k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo(a) Pyrene | 340 | U |
| 193-39-5 | Indeno(1,2,3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz(a,h) Anthracene | 340 | U |
| 191-24-2 | Benzo(g,h,i) Perylene | 340 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000330

TAB 2-4

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105015Sample wt/vol: 30 (g/mL) gLab File ID: H4944Level: (low/med) LOWDate Received: 09/17/96% Moisture: 2 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1700 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1700 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000331
CLIENT ID

TAB 2-4

Lab Name: IEA-NJ

Job No. : 64105

Matrix: (soil/water) Soil

Lab Sample ID: 64105015

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4944

Level: (low/med) LOW

Date Received: 09/17/96

% Moisture: 2 decanted: (Y/N) N

Date Extracted: 09/20/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/16/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1700 | U |
| 100-02-7 | 4-Nitrophenol | 1700 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1700 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1700 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1700 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz (a,h) Anthracene | 340 | U |
| 191-24-2 | Benzo (g,h,i) Perylene | 340 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000.333A

ETL1 0-2

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105016Sample wt/vol: 30 (g/mL) gLab File ID: H4945Level: (low/med) LOWDate Received: 09/17/96% Moisture: 3 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000334
CLIENT ID

ETL1 0-2

Lab Name: IEA-NJ

Job No. : 64105

Matrix: (soil/water) Soil

Sample wt/vol: 30 (g/mL) g

Level: (low/med) LOW

% Moisture: 3 decanted: (Y/N) N

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH:

Lab Sample ID: 64105016

Lab File ID: H4945

Date Received: 09/17/96

Date Extracted: 09/20/96

Date Analyzed: 10/16/96

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo(a)Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo(b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo(k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo(a) Pyrene | 340 | U |
| 193-39-5 | Indeno(1,2,3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz(a,h) Anthracene | 340 | U |
| 191-24-2 | Benzo(g,h,i) Perylene | 340 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000337D

ETL1 2-4

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105017Sample wt/vol: 30 (g/mL) gLab File ID: H4946Level: (low/med) LOWDate Received: 09/17/96% Moisture: 2 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1700 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1700 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

~~000338~~

ETL1 2-4

Lab Name: IEA-NJ

Job No. : 64105

Matrix: (soil/water) Soil

Lab Sample ID: 64105017

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4946

Level: (low/med) LOW

Date Received: 09/17/96

% Moisture: 2 decanted: (Y/N) N

Date Extracted: 09/20/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/16/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1700 | U |
| 100-02-7 | 4-Nitrophenol | 1700 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1700 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1700 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1700 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 340 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 340 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ETL2 0-2

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105018Sample wt/vol: 30 (g/mL) gLab File ID: H4947Level: (low/med) LOWDate Received: 09/17/96% Moisture: 6 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 350 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 350 | U |
| 95-57-8 | 2-Chlorophenol | 350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 350 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 350 | U |
| 95-48-7 | 2-Methylphenol | 350 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 350 | U |
| 106-44-5 | 4-Methylphenol | 350 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 350 | U |
| 67-72-1 | Hexachloroethane | 350 | U |
| 98-95-3 | Nitrobenzene | 350 | U |
| 78-59-1 | Isophorone | 350 | U |
| 88-75-5 | 2-Nitrophenol | 350 | U |
| 105-67-9 | 2,4-Dimethylphenol | 350 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 350 | U |
| 120-83-2 | 2,4-Dichlorophenol | 350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 106-47-8 | 4-Chloroaniline | 350 | U |
| 87-68-3 | Hexachlorobutadiene | 350 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 350 | U |
| 91-57-6 | 2-Methylnaphthalene | 350 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 350 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 350 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 350 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 350 | U |
| 208-96-8 | Acenaphthylene | 350 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 350 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 350 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000341
CLIENT ID

ETL2 0-2

Lab Name: IEA-NJ

Job No. : 64105

Matrix: (soil/water) Soil

Lab Sample ID: 64105018

Sample wt/vol: 30 (g/mL) g

Lab File ID: H4947

Level: (low/med) LOW

Date Received: 09/17/96

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 09/20/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/16/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 350 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 350 | U |
| 84-66-2 | Diethylphthalate | 350 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 350 | U |
| 118-74-1 | Hexachlorobenzene | 350 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 86-74-8 | Carbazole | 350 | U |
| 84-74-2 | Di-n-Butylphthalate | 350 | U |
| 206-44-0 | Fluoranthene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |
| 85-68-7 | Butylbenzylphthalate | 350 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 350 | U |
| 56-55-3 | Benzo(a) Anthracene | 350 | U |
| 218-01-9 | Chrysene | 350 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 350 | U |
| 117-84-0 | Di-n-Octylphthalate | 350 | U |
| 205-99-2 | Benzo(b) Fluoranthene | 350 | U |
| 207-08-9 | Benzo(k) Fluoranthene | 350 | U |
| 50-32-8 | Benzo(a) Pyrene | 350 | U |
| 193-39-5 | Indeno(1,2,3-cd) Pyrene | 350 | U |
| 53-70-3 | Dibenz(a,h) Anthracene | 350 | U |
| 191-24-2 | Benzo(g,h,i) Perylene | 350 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ETL2 2-4

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105019Sample wt/vol: 30 (g/mL) gLab File ID: H4948Level: (low/med) LOWDate Received: 09/17/96% Moisture: 2 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO. COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1700 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1700 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

000345

CLIENT ID

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ETL2 2-4

Lab Name: IEA-NJJob No. : 64105Matrix: (soil/water) SoilLab Sample ID: 64105019Sample wt/vol: 30 (g/mL) gLab File ID: H4948Level: (low/med) LOWDate Received: 09/17/96% Moisture: 2 decanted: (Y/N) NDate Extracted: 09/20/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/16/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

CAS NO.

COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | <u>ug/kg</u> | Q |
|-----------|-----------------------------|---|--------------|---|
| 51-28-5 | 2,4-Dinitrophenol | 1700 | | U |
| 100-02-7 | 4-Nitrophenol | 1700 | | U |
| 132-64-9 | Dibenzofuran | 340 | | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | | U |
| 84-66-2 | Diethylphthalate | 340 | | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | | U |
| 86-73-7 | Fluorene | 340 | | U |
| 100-01-6 | 4-Nitroaniline | 1700 | | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1700 | | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | | U |
| 118-74-1 | Hexachlorobenzene | 340 | | U |
| 87-86-5 | Pentachlorophenol | 1700 | | U |
| 85-01-8 | Phenanthrene | 340 | | U |
| 120-12-7 | Anthracene | 340 | | U |
| 86-74-8 | Carbazole | 340 | | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | | U |
| 206-44-0 | Fluoranthene | 340 | | U |
| 129-00-0 | Pyrene | 340 | | U |
| 85-68-7 | Butylbenzylphthalate | 340 | | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | | U |
| 218-01-9 | Chrysene | 340 | | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 340 | | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 340 | | U |
| 53-70-3 | Dibenz (a,h) Anthracene | 340 | | U |
| 191-24-2 | Benzo (g,h,i) Perylene | 340 | | U |

FORM I SV-2



Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64105001
Matrix: Water

Units: ug/l

Client ID: FB-4
Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|-------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 16:39 | 2.72 | B | 2.53 | 6.00 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 16:39 | 3.02 | U | 3.02 | 8.00 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 16:39 | 0.200 | U | 0.200 | 4.00 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 16:39 | 0.250 | U | 0.250 | 4.00 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 16:39 | 18.0 | | 0.310 | 10.0 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 16:39 | 2.00 | B | 0.980 | 10.0 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 16:39 | 1.86 | U | 1.86 | 3.00 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 16:03 | 0.200 | U | 0.200 | 0.200 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 16:39 | 1.73 | B | 0.420 | 10.0 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 16:39 | 3.00 | U | 3.00 | 5.00 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 16:39 | 0.270 | U | 0.270 | 10.0 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 16:39 | 7.37 | U | 7.37 | 10.0 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 16:39 | 18.1 | U | 18.1 | 30.0 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64105002
Matrix: Soil
Percent Solids: 91.2

Units: mg/kg

Client ID: HVAC 10-12
Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 16:45 | 0.121 | U | 0.121 | 0.658 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 16:45 | 4.31 | | 0.309 | 0.877 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 16:45 | 0.0559 | B | 0.0110 | 0.438 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 16:45 | 0.239 | B | 0.0186 | 0.438 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 16:45 | 21.0 | | 0.0636 | 1.10 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 16:45 | 99.8 | | 0.116 | 1.10 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 16:45 | 29.6 | | 0.0724 | 0.329 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 16:06 | 1.29 | | 0.110 | 0.110 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 16:45 | 4.92 | | 0.150 | 1.10 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 16:45 | 0.251 | U | 0.251 | 0.548 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 16:45 | 0.0351 | U | 0.0351 | 1.10 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 16:45 | 0.808 | U | 0.808 | 1.10 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 16:45 | 209 | | 0.805 | 3.29 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

***RL = Reporting Limit**

U = Undetected below MDL

B = Detected between MDL and RL*



Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64105003

Matrix: Soil

Percent Solids: 96.3

Units: mg/kg

Client ID: HVAC 12-14

Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 16:50 | 0.144 | B | 0.114 | 0.623 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 16:50 | 1.16 | | 0.293 | 0.831 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 16:50 | 0.243 | B | 0.0104 | 0.415 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 16:50 | 0.238 | B | 0.0176 | 0.415 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 16:50 | 12.6 | | 0.0602 | 1.04 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 16:50 | 19.0 | | 0.110 | 1.04 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 16:50 | 2.19 | | 0.0685 | 0.312 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 16:08 | 0.200 | | 0.104 | 0.104 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 16:50 | 2.93 | | 0.142 | 1.04 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 16:50 | 0.238 | U | 0.238 | 0.519 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 16:50 | 0.0332 | U | 0.0332 | 1.04 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 16:50 | 0.765 | U | 0.765 | 1.04 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 16:50 | 49.7 | | 0.762 | 3.12 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**



IEA
An Aquarion Company

Metals Analysis Results

000432

Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64105004

Matrix: Soil

Percent Solids: 88.5

Units: mg/kg

Client ID: WCS2 0-2

Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 16:56 | 0.124 | U | 0.124 | 0.678 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 16:56 | 1.49 | | 0.319 | 0.904 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 16:56 | 0.0983 | B | 0.0113 | 0.452 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 16:56 | 0.164 | B | 0.0192 | 0.452 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 16:56 | 9.70 | | 0.0655 | 1.13 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 16:56 | 5.51 | | 0.120 | 1.13 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 16:56 | 4.08 | | 0.0746 | 0.339 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 16:11 | 0.113 | U | 0.113 | 0.113 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 16:56 | 4.57 | | 0.155 | 1.13 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 16:56 | 0.259 | U | 0.259 | 0.565 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 16:56 | 0.383 | B | 0.0362 | 1.13 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 16:56 | 0.833 | U | 0.833 | 1.13 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 16:56 | 24.5 | | 0.829 | 3.39 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

***RL = Reporting Limit**

U = Undetected below MDL

B = Detected between MDL and RL*



IEA
An Aquarion Company

Metals Analysis Results

000433

Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64105005

Matrix: Soil

Percent Solids: 97.6

Units: mg/kg

Client ID: WCS2 2-4

Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 17:02 | 0.113 | U | 0.113 | 0.615 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 17:02 | 0.975 | | 0.289 | 0.820 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 17:02 | 0.0102 | U | 0.0102 | 0.410 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 17:02 | 0.0174 | U | 0.0174 | 0.410 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 17:02 | 7.16 | | 0.0594 | 1.02 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 17:02 | 4.76 | | 0.109 | 1.02 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 17:02 | 2.24 | | 0.0676 | 0.307 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 16:13 | 0.102 | U | 0.102 | 0.102 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 17:02 | 3.44 | | 0.140 | 1.02 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 17:02 | 0.235 | U | 0.235 | 0.512 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 17:02 | 0.0328 | U | 0.0328 | 1.02 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 17:02 | 0.755 | U | 0.755 | 1.02 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 17:02 | 9.28 | | 0.752 | 3.07 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**



Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64105006

Client ID: WCS1 0-2

Matrix: Soil

Units: mg/kg

Sample Date: 09/16/96

Percent Solids: 91.0

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 17:08 | 0.121 | U | 0.121 | 0.659 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 17:08 | 2.69 | | 0.310 | 0.879 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 17:08 | 0.116 | B | 0.0110 | 0.440 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 17:08 | 0.0187 | U | 0.0187 | 0.440 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 17:08 | 10.6 | | 0.0637 | 1.10 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 17:08 | 4.80 | | 0.116 | 1.10 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 17:08 | 6.84 | | 0.0725 | 0.330 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 16:15 | 0.110 | U | 0.110 | 0.110 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 17:08 | 4.61 | | 0.150 | 1.10 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 17:08 | 0.252 | U | 0.252 | 0.549 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 17:08 | 0.0352 | U | 0.0352 | 1.10 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 17:08 | 0.810 | U | 0.810 | 1.10 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 17:08 | 14.2 | | 0.806 | 3.30 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

***RL = Reporting Limit**

U = Undetected below MDL

B = Detected between MDL and RL*



IEA

An Aquarion Company

Metals Analysis Results

000 435

Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64105007

Matrix: Soil

Percent Solids: 90.9

Units: mg/kg

Client ID: WCS1 2-4

Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 17:13 | 0.121 | U | 0.121 | 0.660 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 17:13 | 0.587 | B | 0.310 | 0.880 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 17:13 | 0.0110 | U | 0.0110 | 0.440 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 17:13 | 0.0418 | B | 0.0187 | 0.440 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 17:13 | 4.10 | | 0.0638 | 1.10 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 17:13 | 2.36 | | 0.117 | 1.10 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 17:13 | 1.16 | | 0.0726 | 0.330 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 16:22 | 0.110 | U | 0.110 | 0.110 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 17:13 | 1.60 | | 0.151 | 1.10 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 17:13 | 0.252 | U | 0.252 | 0.550 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 17:13 | 0.0352 | U | 0.0352 | 1.10 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 17:13 | 0.811 | U | 0.811 | 1.10 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 17:13 | 3.87 | | 0.807 | 3.30 | 1.00 | WG6986 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64105008

Client ID: OWS1 16-18

Matrix: Soil

Units: mg/kg

Sample Date: 09/16/96

Percent Solids: 96.0

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 17:19 | 0.114 | U | 0.114 | 0.625 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 17:19 | 0.832 | B | 0.294 | 0.833 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 17:19 | 0.0104 | U | 0.0104 | 0.417 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 17:19 | 0.0865 | B | 0.0177 | 0.417 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 17:19 | 4.31 | | 0.0604 | 1.04 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 17:19 | 3.55 | | 0.110 | 1.04 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 17:19 | 1.36 | | 0.0688 | 0.312 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 16:25 | 0.104 | U | 0.104 | 0.104 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 17:19 | 1.57 | | 0.143 | 1.04 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 17:19 | 0.238 | U | 0.238 | 0.521 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 17:19 | 0.0333 | U | 0.0333 | 1.04 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 17:19 | 0.768 | U | 0.768 | 1.04 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 17:19 | 4.36 | | 0.764 | 3.12 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

***RL = Reporting Limit**

U = Undetected below MDL

B = Detected between MDL and RL*



Metals Analysis Results

000437

Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64105009MS

Matrix: Soil

Percent Solids: 96.0

Units: mg/kg

Client ID: OWS16-18MSMS

Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 17:44 | 46.6 | | 0.114 | 0.625 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 17:44 | 48.6 | | 0.294 | 0.833 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 17:44 | 51.3 | | 0.0104 | 0.417 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 17:44 | 46.5 | | 0.0177 | 0.417 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 17:44 | 52.1 | | 0.0604 | 1.04 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 17:44 | 52.8 | | 0.110 | 1.04 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 17:44 | 48.4 | | 0.0688 | 0.312 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 16:29 | 0.526 | | 0.104 | 0.104 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 17:44 | 48.4 | | 0.143 | 1.04 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 17:44 | 46.6 | | 0.238 | 0.521 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 17:44 | 4.95 | | 0.0333 | 1.04 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 17:44 | 48.6 | | 0.768 | 1.04 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 17:44 | 51.5 | | 0.764 | 3.12 | 1.00 | WG6986 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**



IEA
An Aquarion Company

Metals Analysis Results

000438

Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64105010DUP

Client ID: OWS1618MSDDUP

Matrix: Soil

Units: mg/kg

Sample Date: 09/16/96

Percent Solids: 96.0

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 17:38 | 0.114 | U | 0.114 | 0.625 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 17:38 | 0.892 | | 0.294 | 0.833 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 17:38 | 0.0104 | U | 0.0104 | 0.417 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 17:38 | 0.0500 | B | 0.0177 | 0.417 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 17:38 | 4.30 | | 0.0604 | 1.04 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 17:38 | 2.96 | | 0.110 | 1.04 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 17:38 | 1.38 | | 0.0688 | 0.312 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 16:27 | 0.104 | U | 0.104 | 0.104 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 17:38 | 1.81 | | 0.143 | 1.04 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 17:38 | 0.238 | U | 0.238 | 0.521 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 17:38 | 0.0333 | U | 0.0333 | 1.04 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 17:38 | 0.768 | U | 0.768 | 1.04 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 17:38 | 4.77 | | 0.764 | 3.12 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

***RL = Reporting Limit**

U = Undetected below MDL

B = Detected between MDL and RL*

**IEA**

An Aquarion Company

Metals Analysis Results

000139

Prepared For:

Dvirka & Bartilucci**IEA Sample No.: 64105011**

Matrix: Soil

Percent Solids: 86.7

Units: mg/kg

Client ID: OWS1 18-20

Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 18:07 | 0.127 | U | 0.127 | 0.692 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 18:07 | 0.744 | B | 0.325 | 0.923 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 18:07 | 0.0115 | U | 0.0115 | 0.461 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 18:07 | 0.0392 | B | 0.0196 | 0.461 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 18:07 | 4.78 | | 0.0669 | 1.15 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 18:07 | 3.29 | | 0.122 | 1.15 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 18:07 | 1.33 | | 0.0761 | 0.346 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 16:34 | 0.115 | U | 0.115 | 0.115 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 18:07 | 1.46 | | 0.158 | 1.15 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 18:07 | 0.264 | U | 0.264 | 0.577 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 18:07 | 0.0369 | U | 0.0369 | 1.15 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 18:07 | 0.850 | U | 0.850 | 1.15 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 18:07 | 4.56 | | 0.846 | 3.46 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids**Qualifiers:**

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**



Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64105012

Matrix: Soil
Percent Solids: 79.1

Units: mg/kg

Client ID: TAC 0-2
Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 18:12 | 0.642 | B | 0.139 | 0.758 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 18:12 | 2.07 | | 0.356 | 1.01 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 18:12 | 0.0126 | U | 0.0126 | 0.506 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 18:12 | 47.9 | | 0.0215 | 0.506 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 18:12 | 41.9 | | 0.0733 | 1.26 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 18:12 | 68.5 | | 0.134 | 1.26 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 18:12 | 25.1 | | 0.0834 | 0.379 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 17:06 | 272 | | 12.6 | 12.6 | 100.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 18:12 | 118 | | 0.173 | 1.26 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 18:12 | 0.305 | B | 0.290 | 0.632 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 18:12 | 1.19 | B | 0.0404 | 1.26 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 18:12 | 0.932 | U | 0.932 | 1.26 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 18:12 | 284 | | 0.928 | 3.79 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL
B = Detected between MDL and RL*

*RL = Reporting Limit



Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64105013

Matrix: Soil

Percent Solids: 97.5

Units: mg/kg

Client ID: TAC 2-4
Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 18:18 | 0.113 | U | 0.113 | 0.615 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 18:18 | 2.22 | | 0.289 | 0.820 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 18:18 | 0.0102 | U | 0.0102 | 0.410 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 18:18 | 0.183 | B | 0.0174 | 0.410 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 18:18 | 7.62 | | 0.0595 | 1.02 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 18:18 | 3.68 | | 0.109 | 1.02 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 18:18 | 1.07 | | 0.0677 | 0.308 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 17:09 | 5.31 | | 0.513 | 0.513 | 5.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 18:18 | 1.41 | | 0.140 | 1.02 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 18:18 | 0.235 | U | 0.235 | 0.513 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 18:18 | 0.0328 | U | 0.0328 | 1.02 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 18:18 | 0.756 | U | 0.756 | 1.02 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 18:18 | 4.52 | | 0.753 | 3.08 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**



IEA
An Aquarion Company

Metals Analysis Results

Prepared For:
Dvirka & Bartilucci

000441A

IEA Sample No.: 64105014

Matrix: Soil

Percent Solids: 98.2

Units: mg/kg

Client ID: TAB 0-2

Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 18:24 | 0.117 | B | 0.112 | 0.611 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 18:24 | 1.58 | | 0.287 | 0.815 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 18:24 | 0.107 | B | 0.0102 | 0.407 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 18:24 | 0.0285 | B | 0.0173 | 0.407 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 18:24 | 6.05 | | 0.0591 | 1.02 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 18:24 | 3.85 | | 0.108 | 1.02 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 18:24 | 1.60 | | 0.0672 | 0.305 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 16:47 | 0.102 | U | 0.102 | 0.102 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 18:24 | 1.77 | | 0.140 | 1.02 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 18:24 | 0.233 | U | 0.233 | 0.509 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 18:24 | 0.0326 | U | 0.0326 | 1.02 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 18:24 | 0.750 | U | 0.750 | 1.02 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 18:24 | 7.28 | | 0.747 | 3.05 | 1.00 | WG6986 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit

**IEA**

An Aquarion Company

Metals Analysis Results

000112

Prepared For:

Dvirka & Bartilucci**IEA Sample No.: 64105015**

Matrix: Soil

Percent Solids: 98.2

Units: mg/kg

Client ID: TAB 2-4

Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 18:29 | 0.160 | B | 0.112 | 0.611 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 18:29 | 0.865 | | 0.287 | 0.815 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 18:29 | 0.0244 | B | 0.0102 | 0.407 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 18:29 | 0.0173 | U | 0.0173 | 0.407 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 18:29 | 10.2 | | 0.0591 | 1.02 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 18:29 | 5.44 | | 0.108 | 1.02 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 18:29 | 1.13 | | 0.0672 | 0.305 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 16:49 | 0.102 | U | 0.102 | 0.102 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 18:29 | 1.60 | | 0.140 | 1.02 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 18:29 | 0.332 | B | 0.233 | 0.509 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 18:29 | 0.0326 | U | 0.0326 | 1.02 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 18:29 | 0.750 | U | 0.750 | 1.02 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 18:29 | 4.15 | | 0.747 | 3.05 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids**Qualifiers:****U = Undetected below MDL****B = Detected between MDL and RL******RL = Reporting Limit**



Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64105016

Matrix: Soil

Percent Solids: 97.4

Units: mg/kg

Client ID: ETL1 0-2

Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 18:52 | 0.197 | B | 0.113 | 0.616 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 18:52 | 1.27 | | 0.290 | 0.821 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 18:52 | 0.0103 | U | 0.0103 | 0.411 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 18:52 | 0.0277 | B | 0.0174 | 0.411 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 18:52 | 6.03 | | 0.0595 | 1.03 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 18:52 | 4.43 | | 0.109 | 1.03 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 18:52 | 2.21 | | 0.0678 | 0.308 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 16:57 | 0.103 | U | 0.103 | 0.103 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 18:52 | 2.64 | | 0.141 | 1.03 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 18:52 | 0.235 | U | 0.235 | 0.513 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 18:52 | 1.50 | | 0.0328 | 1.03 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 18:52 | 0.757 | U | 0.757 | 1.03 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 18:52 | 7.61 | | 0.754 | 3.08 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**



Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64105017

Matrix: Soil

Percent Solids: 97.7

Units: mg/kg

Client ID: ETL1 2-4

Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 18:57 | 0.112 | U | 0.112 | 0.614 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 18:57 | 1.05 | | 0.289 | 0.819 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 18:57 | 0.0102 | U | 0.0102 | 0.409 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 18:57 | 0.0205 | B | 0.0174 | 0.409 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 18:57 | 4.09 | | 0.0594 | 1.02 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 18:57 | 2.51 | | 0.108 | 1.02 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 18:57 | 1.74 | | 0.0676 | 0.307 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 16:59 | 0.102 | U | 0.102 | 0.102 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 18:57 | 1.94 | | 0.140 | 1.02 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 18:57 | 0.234 | U | 0.234 | 0.512 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 18:57 | 0.104 | B | 0.0328 | 1.02 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 18:57 | 0.754 | U | 0.754 | 1.02 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 18:57 | 5.04 | | 0.751 | 3.07 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



Metals Analysis Results

000-445

Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64105018

Matrix: Soil

Percent Solids: 94.6

Units: mg/kg

Client ID: ETL2 0-2

Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 19:03 | 0.116 | U | 0.116 | 0.634 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 19:03 | 1.59 | | 0.298 | 0.846 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 19:03 | 0.0476 | B | 0.0106 | 0.423 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 19:03 | 0.0624 | B | 0.0180 | 0.423 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 19:03 | 8.11 | | 0.0613 | 1.06 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 19:03 | 5.34 | | 0.112 | 1.06 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 19:03 | 2.63 | | 0.0698 | 0.317 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 17:01 | 0.106 | U | 0.106 | 0.106 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 19:03 | 4.66 | | 0.145 | 1.06 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 19:03 | 0.242 | U | 0.242 | 0.528 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 19:03 | 0.0338 | U | 0.0338 | 1.06 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 19:03 | 0.779 | U | 0.779 | 1.06 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 19:03 | 53.3 | | 0.776 | 3.17 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



Metals Analysis Results

000446

Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64105019

Matrix: Soil

Percent Solids: 98.4

Units: mg/kg

Client ID: ETL2 2-4

Sample Date: 09/16/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/24/96 19:09 | 0.112 | U | 0.112 | 0.610 | 1.00 | WG6986 |
| 7440-38-2 | Arsenic | ICP-TR | 09/24/96 19:09 | 1.19 | | 0.286 | 0.813 | 1.00 | WG6986 |
| 7440-41-7 | Beryllium | ICP-TR | 09/24/96 19:09 | 0.0102 | U | 0.0102 | 0.406 | 1.00 | WG6986 |
| 7440-43-9 | Cadmium | ICP-TR | 09/24/96 19:09 | 0.129 | B | 0.0173 | 0.406 | 1.00 | WG6986 |
| 7440-47-3 | Chromium | ICP-TR | 09/24/96 19:09 | 8.08 | | 0.0589 | 1.02 | 1.00 | WG6986 |
| 7440-50-8 | Copper | ICP-TR | 09/24/96 19:09 | 6.79 | | 0.108 | 1.02 | 1.00 | WG6986 |
| 7439-92-1 | Lead | ICP-TR | 09/24/96 19:09 | 2.17 | | 0.0671 | 0.305 | 1.00 | WG6986 |
| 7439-97-6 | Mercury | CV | 09/24/96 17:04 | 0.102 | U | 0.102 | 0.102 | 1.00 | WG7007 |
| 7440-02-0 | Nickel | ICP-TR | 09/24/96 19:09 | 3.31 | | 0.139 | 1.02 | 1.00 | WG6986 |
| 7782-49-2 | Selenium | ICP-TR | 09/24/96 19:09 | 0.233 | U | 0.233 | 0.508 | 1.00 | WG6986 |
| 7440-22-4 | Silver | ICP-TR | 09/24/96 19:09 | 0.0437 | B | 0.0325 | 1.02 | 1.00 | WG6986 |
| 7440-28-0 | Thallium | ICP-TR | 09/24/96 19:09 | 0.749 | U | 0.749 | 1.02 | 1.00 | WG6986 |
| 7440-66-6 | Zinc | ICP-TR | 09/24/96 19:09 | 6.98 | | 0.746 | 3.05 | 1.00 | WG6986 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64105

Date Sampled: 9/16/96

IEA Sample No: 64105001

Date Received: 9/17/96

Client Sample No: FB-4

Date Extracted: 10/2/96

Extraction (SW846 - 3510) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 10/2/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 0.1 mg/l.

Comments:

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64105 Date Sampled: 9/16/96
IEA Sample No: 64105002 Date Received: 9/17/96
Client Sample No: HVAC 10-12 Date Extracted: 9/30/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 10/2/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.6 mg/kg.

Comments: The sample contains Motor Oil.

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64105 Date Sampled: 9/16/96
IEA Sample No: 64105003 Date Received: 9/17/96
Client Sample No: HVAC 12-14 Date Extracted: 9/30/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/2/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 3.4 mg/kg.

Comments:

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64105 Date Sampled: 9/16/96
IEA Sample No: 64105004 Date Received: 9/17/96
Client Sample No: WCS2 0-2 Date Extracted: 9/30/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/3/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 19 mg/kg.

Comments: The sample contains Motor Oil. The sample could not be concentrated to a lower volume; therefore, it was analyzed with a five-fold dilution.

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64105 Date Sampled: 9/16/96
IEA Sample No: 64105005 Date Received: 9/17/96
Client Sample No: WCS2 2-4 Date Extracted: 9/30/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/3/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 3.4 mg/kg.

Comments: The sample contains Motor Oil.

000053

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64105 Date Sampled: 9/16/96
IEA Sample No: 64105006 Date Received: 9/17/96
Client Sample No: WCS1 0-2 Date Extracted: 9/30/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 10/3/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.6 mg/kg.

Comments:

000556

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64105

Date Sampled: 9/16/96

IEA Sample No: 64105008

Date Received: 9/17/96

Client Sample No: OWS1 16-18

Date Extracted: 9/30/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/3/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 3.4 mg/kg.

Comments:

000660

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64105 Date Sampled: 9/16/96

IEA Sample No: 64105011 Date Received: 9/17/96

Client Sample No: OWS1 18-20 Date Extracted: 9/30/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/3/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 3.8 mg/kg.

Comments:

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64105 Date Sampled: 9/16/96
IEA Sample No: 64105012 Date Received: 9/17/96
Client Sample No: TAC 0-2 Date Extracted: 9/30/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/3/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 4.2 mg/kg.

Comments: The sample contains Motor Oil.

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64105 Date Sampled: 9/16/96
IEA Sample No: 64105013 Date Received: 9/17/96
Client Sample No: TAC 2-4 Date Extracted: 9/30/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/3/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 3.4 mg/kg.

Comments: The sample contains Motor Oil.

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64105 Date Sampled: 9/16/96
IEA Sample No: 64105014 Date Received: 9/17/96
Client Sample No: TAB 0-2 Date Extracted: 9/30/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 10/8/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.4 mg/kg.

Comments:

000076

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64105 Date Sampled: 9/16/96
IEA Sample No: 64105015 Date Received: 9/17/96
Client Sample No: TAB 2-4 Date Extracted: 9/30/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 10/8/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.4 mg/kg.

Comments:

000079

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64105 Date Sampled: 9/16/96
IEA Sample No: 64105016 Date Received: 9/17/96
Client Sample No: ETL1 0-2 Date Extracted: 9/30/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 10/8/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 3.4 mg/kg.

Comments: The sample contains Motor Oil.

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64105 Date Sampled: 9/16/96
IEA Sample No: 64105017 Date Received: 9/17/96
Client Sample No: ETL1 2-4 Date Extracted: 9/30/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 10/3/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.4 mg/kg.

Comments: The sample contains Motor Oil.

000687

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 20960-64105 Date Sampled: 9/16/96
IEA Sample No: 64105019 Date Received: 9/17/96
Client Sample No: ETL1 2-4 Date Extracted: 9/30/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 10/2/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.4 mg/kg.

Comments:

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : WATER

CLIENT ID: FB-4

LAB SAMPLE ID : 64105001
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS :
CONCENTRATION UNITS: mg/l

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | <0.5 | 20-SEP-96 |

Method Detection Limit = .5 mg/L

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: HVAC 10-12

LAB SAMPLE ID : 64105002
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 91.21
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 44 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: HVAC 12-14

LAB SAMPLE ID : 64105003
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 96.25
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 32 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: WCS2 0-2

LAB SAMPLE ID : 64105004
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 25
PERCENT SOLIDS : 88.5
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 1600 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: WCS2 2-4

LAB SAMPLE ID : 64105005
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 97.57
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 70 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: WCS1 0-2

LAB SAMPLE ID : 64105006
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 90.98
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 28 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
 MATRIX : SOIL

CLIENT ID: WCS1 2-4

LAB SAMPLE ID : 64105007
 DATE RECEIVED : 17-SEP-96
 DILUTION FACTOR : 1
 PERCENT SOLIDS : 90.86
 CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | <22 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: OWS1 16-18

LAB SAMPLE ID : 64105008
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 96.03
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 42 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: OWS16-18MSMS

LAB SAMPLE ID : 64105009MS
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 96.03
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 91 % Recovery | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: OWS1618MSDDUP

LAB SAMPLE ID : 64105010DUP
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 96.03
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 38 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: OWS1 18-20

LAB SAMPLE ID : 64105011
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 86.74
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 33 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: TAC 0-2

LAB SAMPLE ID : 64105012
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 5
PERCENT SOLIDS : 79.07
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 650 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: TAC 2-4

LAB SAMPLE ID : 64105013
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 97.49
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 36 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: TAB 0-2

LAB SAMPLE ID : 64105014
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 98.17
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 22 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: TAB 2-4

LAB SAMPLE ID : 64105015
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 98.24
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 27 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: ETL1 0-2

LAB SAMPLE ID : 64105016
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 97.43
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 60 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: ETL1 2-4

LAB SAMPLE ID : 64105017
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 97.72
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 52 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: ETL2 0-2

LAB SAMPLE ID : 64105018
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 94.58
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | <21 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: ETL2 2-4

LAB SAMPLE ID : 64105019
DATE RECEIVED : 17-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 98.39
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 22 | 25-SEP-96 |

Method Detection Limit = 20 mg/kg

VOLATILE ORGANICS ANALYSIS DATA SHEET

FB-2

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) WaterLab Sample ID: 64060001Sample wt/vol: 5 (g/mL) mlLab File ID: >EG875Level: (low/med) LOWDate Received: 09/13/96

% Moisture: not dec. _____

Date Analyzed: 09/16/96GC Column: DB-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/l</u> | Q |
|------------|----------------------------|---|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000036

SDSR12-14

Lab Name: IEA-NJ

Job No. : 64060

Matrix: (soil/water) Soil

Lab Sample ID: 64060002

Sample wt/vol: 5 (g/mL) g

Lab File ID: A2090

Level: (low/med) LOW

Date Received: 09/13/96

% Moisture: not dec. 18

Date Analyzed: 09/18/96

GC Column: RTX-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO. COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | Q |
|------------|----------------------------|---|---|
| 67-64-1 | Acetone | 12 | U |
| 71-43-2 | Benzene | 6 | U |
| 75-27-4 | Bromodichloromethane | 6 | U |
| 75-25-2 | Bromoform | 6 | U |
| 74-83-9 | Bromomethane | 12 | U |
| 78-93-3 | 2-Butanone | 12 | U |
| 75-15-0 | Carbon Disulfide | 6 | U |
| 56-23-5 | Carbon Tetrachloride | 6 | U |
| 108-90-7 | Chlorobenzene | 6 | U |
| 124-48-1 | Chlorodibromomethane | 6 | U |
| 75-00-3 | Chloroethane | 12 | U |
| 67-66-3 | Chloroform | 6 | U |
| 74-87-3 | Chloromethane | 12 | U |
| 75-34-3 | 1,1-Dichloroethane | 6 | U |
| 107-06-2 | 1,2-Dichloroethane | 6 | U |
| 75-35-4 | 1,1-Dichloroethene | 6 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 6 | U |
| 78-87-5 | 1,2-Dichloropropane | 6 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 6 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 6 | U |
| 100-41-4 | Ethylbenzene | 6 | U |
| 591-78-6 | 2-Hexanone | 12 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 12 | U |
| 75-09-2 | Methylene Chloride | 6 | U |
| 100-42-5 | Styrene | 6 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6 | U |
| 127-18-4 | Tetrachloroethene | 6 | U |
| 108-88-3 | Toluene | 6 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 6 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6 | U |
| 79-01-6 | Trichloroethylene | 6 | U |
| 75-01-4 | Vinyl Chloride | 12 | U |
| 1330-20-7 | Xylenes (Total) | 6 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

000035

SDSR16-18

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060003Sample wt/vol: 5 (g/mL) gLab File ID: A2091Level: (low/med) LOWDate Received: 09/13/96% Moisture: not dec. 16Date Analyzed: 09/18/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

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

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 12 | U |
| 71-43-2 | Benzene | 6 | U |
| 75-27-4 | Bromodichloromethane | 6 | U |
| 75-25-2 | Bromoform | 6 | U |
| 74-83-9 | Bromomethane | 12 | U |
| 78-93-3 | 2-Butanone | 12 | U |
| 75-15-0 | Carbon Disulfide | 6 | U |
| 56-23-5 | Carbon Tetrachloride | 6 | U |
| 108-90-7 | Chlorobenzene | 6 | U |
| 124-48-1 | Chlorodibromomethane | 6 | U |
| 75-00-3 | Chloroethane | 12 | U |
| 67-66-3 | Chloroform | 6 | U |
| 74-87-3 | Chloromethane | 12 | U |
| 75-34-3 | 1,1-Dichloroethane | 6 | U |
| 107-06-2 | 1,2-Dichloroethane | 6 | U |
| 75-35-4 | 1,1-Dichloroethene | 6 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 6 | U |
| 78-87-5 | 1,2-Dichloropropane | 6 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 6 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 6 | U |
| 100-41-4 | Ethylbenzene | 6 | U |
| 591-78-6 | 2-Hexanone | 12 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 12 | U |
| 75-09-2 | Methylene Chloride | 6 | U |
| 100-42-5 | Styrene | 6 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6 | U |
| 127-18-4 | Tetrachloroethene | 6 | U |
| 108-88-3 | Toluene | 6 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 6 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6 | U |
| 79-01-6 | Trichloroethylene | 6 | U |
| 75-01-4 | Vinyl Chloride | 12 | U |
| 1330-20-7 | Xylenes (Total) | 6 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CONFIDENTIAL

SDSR20-22

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060004Sample wt/vol: 5 (g/mL) gLab File ID: A2092Level: (low/med) LOWDate Received: 09/13/96% Moisture: not dec. 3Date Analyzed: 09/18/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | ug/kg | Q |
|------------|----------------------------|-----------------|-------|---|
| 67-64-1 | Acetone | 10 | U | |
| 71-43-2 | Benzene | 5 | U | |
| 75-27-4 | Bromodichloromethane | 5 | U | |
| 75-25-2 | Bromoform | 5 | U | |
| 74-83-9 | Bromomethane | 10 | U | |
| 78-93-3 | 2-Butanone | 10 | U | |
| 75-15-0 | Carbon Disulfide | 5 | U | |
| 56-23-5 | Carbon Tetrachloride | 5 | U | |
| 108-90-7 | Chlorobenzene | 5 | U | |
| 124-48-1 | Chlorodibromomethane | 5 | U | |
| 75-00-3 | Chloroethane | 10 | U | |
| 67-66-3 | Chloroform | 5 | U | |
| 74-87-3 | Chloromethane | 10 | U | |
| 75-34-3 | 1,1-Dichloroethane | 5 | U | |
| 107-06-2 | 1,2-Dichloroethane | 5 | U | |
| 75-35-4 | 1,1-Dichloroethene | 5 | U | |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U | |
| 78-87-5 | 1,2-Dichloropropane | 5 | U | |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U | |
| 100-41-4 | Ethylbenzene | 5 | U | |
| 591-78-6 | 2-Hexanone | 10 | U | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U | |
| 75-09-2 | Methylene Chloride | 5 | U | |
| 100-42-5 | Styrene | 5 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U | |
| 127-18-4 | Tetrachloroethene | 5 | U | |
| 108-88-3 | Toluene | 5 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U | |
| 79-01-6 | Trichloroethylene | 5 | U | |
| 75-01-4 | Vinyl Chloride | 10 | U | |
| 1330-20-7 | Xylenes (Total) | 5 | U | |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

SDSF12-14

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060006Sample wt/vol: 5 (g/mL) gLab File ID: A2095Level: (low/med) LOWDate Received: 09/13/96% Moisture: not dec. 5Date Analyzed: 09/18/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO. COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

SDSF16-18

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060007Sample wt/vol: 5 (g/mL) gLab File ID: A2096Level: (low/med) LOWDate Received: 09/13/96% Moisture: not dec. 4Date Analyzed: 09/18/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

SDSF20-22

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060008Sample wt/vol: 5 (g/mL) gLab File ID: A2097Level: (low/med) LOWDate Received: 09/13/96% Moisture: not dec. 3Date Analyzed: 09/18/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

000053
CLIENT ID

DWCE3-5

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060009Sample wt/vol: 5 (g/mL) gLab File ID: A2098Level: (low/med) LOWDate Received: 09/13/96% Moisture: not dec. 28Date Analyzed: 09/18/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 14 | U |
| 71-43-2 | Benzene | 7 | U |
| 75-27-4 | Bromodichloromethane | 7 | U |
| 75-25-2 | Bromoform | 7 | U |
| 74-83-9 | Bromomethane | 14 | U |
| 78-93-3 | 2-Butanone | 14 | U |
| 75-15-0 | Carbon Disulfide | 7 | U |
| 56-23-5 | Carbon Tetrachloride | 7 | U |
| 108-90-7 | Chlorobenzene | 7 | U |
| 124-48-1 | Chlorodibromomethane | 7 | U |
| 75-00-3 | Chloroethane | 14 | U |
| 67-66-3 | Chloroform | 7 | U |
| 74-87-3 | Chloromethane | 14 | U |
| 75-34-3 | 1,1-Dichloroethane | 13 | |
| 107-06-2 | 1,2-Dichloroethane | 7 | U |
| 75-35-4 | 1,1-Dichloroethene | 7 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 790 | E |
| 78-87-5 | 1,2-Dichloropropane | 7 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 7 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 7 | U |
| 100-41-4 | Ethylbenzene | 7 | U |
| 591-78-6 | 2-Hexanone | 14 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 14 | U |
| 75-09-2 | Methylene Chloride | 7 | U |
| 100-42-5 | Styrene | 7 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 7 | U |
| 127-18-4 | Tetrachloroethene | 7 | U |
| 108-88-3 | Toluene | 7 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 29 | |
| 79-00-5 | 1,1,2-Trichloroethane | 7 | U |
| 79-01-6 | Trichloroethylene | 130 | |
| 75-01-4 | Vinyl Chloride | 14 | U |
| 1330-20-7 | Xylenes (Total) | 7 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

DWCE3-5DL

Lab Name: IEA-NJ

Job No. : 64060

Matrix: (soil/water) Soil

Lab Sample ID: 64060009DL

Sample wt/vol: 1 (g/mL) g

Lab File ID: A2118

Level: (low/med) LOW

Date Received: 09/13/96

% Moisture: not dec. 28

Date Analyzed: 09/19/96

GC Column: RTX-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO. COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | Q |
|------------|----------------------------|---|---|
| 67-64-1 | Acetone | 69 | U |
| 71-43-2 | Benzene | 35 | U |
| 75-27-4 | Bromodichloromethane | 35 | U |
| 75-25-2 | Bromoform | 35 | U |
| 74-83-9 | Bromomethane | 69 | U |
| 78-93-3 | 2-Butanone | 69 | U |
| 75-15-0 | Carbon Disulfide | 35 | U |
| 56-23-5 | Carbon Tetrachloride | 35 | U |
| 108-90-7 | Chlorobenzene | 35 | U |
| 124-48-1 | Chlorodibromomethane | 35 | U |
| 75-00-3 | Chloroethane | 69 | U |
| 67-66-3 | Chloroform | 35 | U |
| 74-87-3 | Chloromethane | 69 | U |
| 75-34-3 | 1,1-Dichloroethane | 35 | U |
| 107-06-2 | 1,2-Dichloroethane | 35 | U |
| 75-35-4 | 1,1-Dichloroethene | 35 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 320 | D |
| 78-87-5 | 1,2-Dichloropropane | 35 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 35 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 35 | U |
| 100-41-4 | Ethylbenzene | 35 | U |
| 591-78-6 | 2-Hexanone | 69 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 69 | U |
| 75-09-2 | Methylene Chloride | 35 | U |
| 100-42-5 | Styrene | 35 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 35 | U |
| 127-18-4 | Tetrachloroethene | 35 | U |
| 108-88-3 | Toluene | 35 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 35 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 35 | U |
| 79-01-6 | Trichloroethylene | 48 | D |
| 75-01-4 | Vinyl Chloride | 69 | U |
| 1330-20-7 | Xylenes (Total) | 35 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

00000000

DWCE5-7

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060010Sample wt/vol: 5 (g/mL) gLab File ID: A2099Level: (low/med) LOWDate Received: 09/13/96% Moisture: not dec. 5Date Analyzed: 09/18/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

| CAS NO. | COMPOUND | | |
|------------|----------------------------|----|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 4 | J |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

000077

DWCE11-13

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060011Sample wt/vol: 5 (g/mL) gLab File ID: A2100Level: (low/med) LOWDate Received: 09/13/96% Moisture: not dec. 4Date Analyzed: 09/18/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000050

DWCE19-21

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060012Sample wt/vol: 5 (g/mL) gLab File ID: A2101Level: (low/med) LOWDate Received: 09/13/96% Moisture: not dec. 4Date Analyzed: 09/18/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

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

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

000153

SD5S1C2022

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060013Sample wt/vol: 5 (g/mL) gLab File ID: A2102Level: (low/med) LOWDate Received: 09/13/96% Moisture: not dec. 3Date Analyzed: 09/18/96GC Column: RTX-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

CAS NO.

COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|------------|----------------------------|--|---|
| 67-64-1 | Acetone | 10 | U |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 124-48-1 | Chlorodibromomethane | 5 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 74-87-3 | Chloromethane | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 75-09-2 | Methylene Chloride | 5 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 79-01-6 | Trichloroethylene | 5 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 1330-20-7 | Xylenes (Total) | 5 | U |

FORM I VOA

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FB-2

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) WaterLab Sample ID: 64060001Sample wt/vol: 1000 (g/mL) mlLab File ID: H4842Level: (low/med) LOWDate Received: 09/13/96

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

Date Extracted: 09/18/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/09/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: _____CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NO. COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/l</u> | Q |
|----------|------------------------------|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

FB-2

Lab Name: IEA-NJ

Job No. : 64060

Matrix: (soil/water) Water

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

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH:

Lab Sample ID: 64060001

Lab File ID: H4842

Date Received: 09/13/96

Date Extracted: 09/18/96

Date Analyzed: 10/09/96

Dilution Factor: 1.0

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/l</u> | Q |
|-----------|-----------------------------|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 10 | U |
| 117-84-0 | Di-n-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(b) Fluoranthene | 10 | U |
| 207-08-9 | Benzo(k) Fluoranthene | 10 | U |
| 50-32-8 | Benzo(a) Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd) Pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h) Anthracene | 10 | U |
| 191-24-2 | Benzo(q,h,i) Perylene | 10 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000319
CLIENT ID

SDSR12-14

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060002Sample wt/vol: 30 (g/mL) gLab File ID: G6916Level: (low/med) LOWDate Received: 09/13/96% Moisture: 18 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 09/18/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 400 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 400 | U |
| 95-57-8 | 2-Chlorophenol | 400 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 400 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 400 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 400 | U |
| 95-48-7 | 2-Methylphenol | 400 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 400 | U |
| 106-44-5 | 4-Methylphenol | 400 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 400 | U |
| 67-72-1 | Hexachloroethane | 400 | U |
| 98-95-3 | Nitrobenzene | 400 | U |
| 78-59-1 | Isophorone | 400 | U |
| 88-75-5 | 2-Nitrophenol | 400 | U |
| 105-67-9 | 2,4-Dimethylphenol | 400 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 400 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 400 | U |
| 91-20-3 | Naphthalene | 400 | U |
| 106-47-8 | 4-Chloroaniline | 400 | U |
| 87-68-3 | Hexachlorobutadiene | 400 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 400 | U |
| 91-57-6 | 2-Methylnaphthalene | 400 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 400 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 400 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2100 | U |
| 91-58-7 | 2-Chloronaphthalene | 400 | U |
| 88-74-4 | 2-Nitroaniline | 2100 | U |
| 131-11-3 | Dimethylphthalate | 400 | U |
| 208-96-8 | Acenaphthylene | 400 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 400 | U |
| 99-09-2 | 3-Nitroaniline | 2100 | U |
| 83-32-9 | Acenaphthene | 400 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000220
CLIENT ID

SDSR12-14

Lab Name: IEA-NJ

Job No. : 64060

Matrix: (soil/water) Soil

Lab Sample ID: 64060002

Sample wt/vol: 30 (g/mL) g

Lab File ID: G6916

Level: (low/med) LOW

Date Received: 09/13/96

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

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/18/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

CAS NO. COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 2100 | U |
| 100-02-7 | 4-Nitrophenol | 2100 | U |
| 132-64-9 | Dibenzofuran | 400 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 400 | U |
| 84-66-2 | Diethylphthalate | 400 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 400 | U |
| 86-73-7 | Fluorene | 400 | U |
| 100-01-6 | 4-Nitroaniline | 2100 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 2100 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 400 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 400 | U |
| 118-74-1 | Hexachlorobenzene | 400 | U |
| 87-86-5 | Pentachlorophenol | 2100 | U |
| 85-01-8 | Phenanthrene | 400 | U |
| 120-12-7 | Anthracene | 400 | U |
| 86-74-8 | Carbazole | 400 | U |
| 84-74-2 | Di-n-Butylphthalate | 400 | U |
| 206-44-0 | Fluoranthene | 400 | U |
| 129-00-0 | Pyrene | 400 | U |
| 85-68-7 | Butylbenzylphthalate | 400 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 400 | U |
| 56-55-3 | Benzo (a) Anthracene | 400 | U |
| 218-01-9 | Chrysene | 400 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 400 | U |
| 117-84-0 | Di-n-Octylphthalate | 400 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 400 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 400 | U |
| 50-32-8 | Benzo (a) Pyrene | 400 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 400 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 400 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 400 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CONFIDENTIAL

SDSR16-18

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060003Sample wt/vol: 30 (g/mL) gLab File ID: G6917Level: (low/med) LOWDate Received: 09/13/96% Moisture: 16 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 09/18/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 390 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 390 | U |
| 95-57-8 | 2-Chlorophenol | 390 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 390 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 390 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 390 | U |
| 95-48-7 | 2-Methylphenol | 390 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 390 | U |
| 106-44-5 | 4-Methylphenol | 390 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 390 | U |
| 67-72-1 | Hexachloroethane | 390 | U |
| 98-95-3 | Nitrobenzene | 390 | U |
| 78-59-1 | Isophorone | 390 | U |
| 88-75-5 | 2-Nitrophenol | 390 | U |
| 105-67-9 | 2,4-Dimethylphenol | 390 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 390 | U |
| 120-83-2 | 2,4-Dichlorophenol | 390 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 390 | U |
| 91-20-3 | Naphthalene | 390 | U |
| 106-47-8 | 4-Chloroaniline | 390 | U |
| 87-68-3 | Hexachlorobutadiene | 390 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 390 | U |
| 91-57-6 | 2-Methylnaphthalene | 390 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 390 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 390 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2000 | U |
| 91-58-7 | 2-Chloronaphthalene | 390 | U |
| 88-74-4 | 2-Nitroaniline | 2000 | U |
| 131-11-3 | Dimethylphthalate | 390 | U |
| 208-96-8 | Acenaphthylene | 390 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 390 | U |
| 99-09-2 | 3-Nitroaniline | 2000 | U |
| 83-32-9 | Acenaphthene | 390 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000001
CLIENT ID

SDSR16-18

Lab Name: IEA-NJ
 Job No. : 64060
 Matrix: (soil/water) Soil
 Sample wt/vol: 30 (g/mL) g
 Level: (low/med) LOW
 % Moisture: 16 decanted: (Y/N) N
 Concentrated Extract Volume: 1000 (uL)
 Injection Volume: 1 (uL)
 GPC Cleanup: (Y/N) N pH:

Lab Sample ID: 64060003
 Lab File ID: G6917
 Date Received: 09/13/96
 Date Extracted: 09/17/96
 Date Analyzed: 09/18/96
 Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 2000 | U |
| 100-02-7 | 4-Nitrophenol | 2000 | U |
| 132-64-9 | Dibenzofuran | 390 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 390 | U |
| 84-66-2 | Diethylphthalate | 390 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 390 | U |
| 86-73-7 | Fluorene | 390 | U |
| 100-01-6 | 4-Nitroaniline | 2000 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 2000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 390 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 390 | U |
| 118-74-1 | Hexachlorobenzene | 390 | U |
| 87-86-5 | Pentachlorophenol | 2000 | U |
| 85-01-8 | Phenanthrene | 390 | U |
| 120-12-7 | Anthracene | 390 | U |
| 86-74-8 | Carbazole | 390 | U |
| 84-74-2 | Di-n-Butylphthalate | 390 | U |
| 206-44-0 | Fluoranthene | 390 | U |
| 129-00-0 | Pyrene | 390 | U |
| 85-68-7 | Butylbenzylphthalate | 390 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 390 | U |
| 56-55-3 | Benzo (a) Anthracene | 390 | U |
| 218-01-9 | Chrysene | 390 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 390 | U |
| 117-84-0 | Di-n-Octylphthalate | 390 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 390 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 390 | U |
| 50-32-8 | Benzo (a) Pyrene | 390 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 390 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 390 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 390 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SDSR20-22

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060004Sample wt/vol: 30 (g/mL) gLab File ID: G6918Level: (low/med) LOWDate Received: 09/13/96% Moisture: 3 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 09/18/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| | | | |
|----------|------------------------------|------|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000230

SDSF12-14

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060006Sample wt/vol: 30 (g/mL) gLab File ID: G6921Level: (low/med) LOWDate Received: 09/13/96% Moisture: 5 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 09/19/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 350 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 350 | U |
| 95-57-8 | 2-Chlorophenol | 350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 350 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 350 | U |
| 95-48-7 | 2-Methylphenol | 350 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 350 | U |
| 106-44-5 | 4-Methylphenol | 350 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 350 | U |
| 67-72-1 | Hexachloroethane | 350 | U |
| 98-95-3 | Nitrobenzene | 350 | U |
| 78-59-1 | Isophorone | 350 | U |
| 88-75-5 | 2-Nitrophenol | 350 | U |
| 105-67-9 | 2,4-Dimethylphenol | 350 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 350 | U |
| 120-83-2 | 2,4-Dichlorophenol | 350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 106-47-8 | 4-Chloroaniline | 350 | U |
| 87-68-3 | Hexachlorobutadiene | 350 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 350 | U |
| 91-57-6 | 2-Methylnaphthalene | 350 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 350 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 350 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 350 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 350 | U |
| 208-96-8 | Acenaphthylene | 350 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 350 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 350 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CL# ~~000123~~ 1

SDSF12-14

Lab Name: IEA-NJ

Job No.: 64060

Matrix: (soil/water) Soil

Lab Sample ID: 64060006

Sample wt/vol: 30 (g/mL)g

Lab File ID: G6921

Level: (low/med) LOW

Date Received: 09/13/96

% Moisture: 5 decanted: (Y/N) N

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/19/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 350 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 350 | U |
| 84-66-2 | Diethylphthalate | 350 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 350 | U |
| 118-74-1 | Hexachlorobenzene | 350 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 86-74-8 | Carbazole | 350 | U |
| 84-74-2 | Di-n-Butylphthalate | 350 | U |
| 206-44-0 | Fluoranthene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |
| 85-68-7 | Butylbenzylphthalate | 350 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 350 | U |
| 56-55-3 | Benzo(a)Anthracene | 350 | U |
| 218-01-9 | Chrysene | 350 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 350 | U |
| 117-84-0 | Di-n-Octylphthalate | 350 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 350 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 350 | U |
| 50-32-8 | Benzo(a)Pyrene | 350 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 350 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 350 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 350 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CONFIDENTIAL

SDSF16-18

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060007Sample wt/vol: 30 (g/mL) gLab File ID: G6922Level: (low/med) LOWDate Received: 09/13/96% Moisture: 4 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 09/19/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000035

SDSF16-18

Lab Name: IEA-NJ

Job No. : 64060

Matrix: (soil/water) Soil

Lab Sample ID: 64060007

Sample wt/vol: 30 (g/mL) g

Lab File ID: G6922

Level: (low/med) LOW

Date Received: 09/13/96

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/19/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 340 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 340 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID: 38

SDSF20-22

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060008Sample wt/vol: 30 (g/mL) gLab File ID: G6923Level: (low/med) LOWDate Received: 09/13/96% Moisture: 3 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 09/19/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DWCE3-5

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060009Sample wt/vol: 30 (g/mL) gLab File ID: G6934Level: (low/med) LOWDate Received: 09/13/96% Moisture: 28 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 09/19/96Injection Volume: 1 (uL)Dilution Factor: 5.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO. COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 4100 | |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 2300 | U |
| 95-57-8 | 2-Chlorophenol | 2300 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 2300 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2300 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 2300 | U |
| 95-48-7 | 2-Methylphenol | 2300 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 2300 | U |
| 106-44-5 | 4-Methylphenol | 2300 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 2300 | U |
| 67-72-1 | Hexachloroethane | 2300 | U |
| 98-95-3 | Nitrobenzene | 2300 | U |
| 78-59-1 | Isophorone | 2300 | U |
| 88-75-5 | 2-Nitrophenol | 2300 | U |
| 105-67-9 | 2,4-Dimethylphenol | 2300 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 2300 | U |
| 120-83-2 | 2,4-Dichlorophenol | 2300 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2300 | U |
| 91-20-3 | Naphthalene | 2200 | J |
| 106-47-8 | 4-Chloroaniline | 2300 | U |
| 87-68-3 | Hexachlorobutadiene | 2300 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 2300 | U |
| 91-57-6 | 2-Methylnaphthalene | 1500 | J |
| 77-47-4 | Hexachlorocyclopentadiene | 2300 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 2300 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 12000 | U |
| 91-58-7 | 2-Chloronaphthalene | 2300 | U |
| 88-74-4 | 2-Nitroaniline | 12000 | U |
| 131-11-3 | Dimethylphthalate | 2300 | U |
| 208-96-8 | Acenaphthylene | 2300 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 2300 | U |
| 99-09-2 | 3-Nitroaniline | 12000 | U |
| 83-32-9 | Acenaphthene | 2300 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000212
CLIENT 12

DWCE3-5

Lab Name: IEA-NJ
 Job No. : 64060
 Matrix: (soil/water) Soil
 Sample wt/vol: 30 (g/mL) g
 Level: (low/med) LOW
 % Moisture: 28 decanted: (Y/N) N
 Concentrated Extract Volume: 1000 (uL)
 Injection Volume: 1 (uL)
 GPC Cleanup: (Y/N) N pH:

Lab Sample ID: 64060009
 Lab File ID: G6934
 Date Received: 09/13/96
 Date Extracted: 09/17/96
 Date Analyzed: 09/19/96
 Dilution Factor: 5.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 12000 | U |
| 100-02-7 | 4-Nitrophenol | 12000 | U |
| 132-64-9 | Dibenzofuran | 2300 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 2300 | U |
| 84-66-2 | Diethylphthalate | 2300 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 2300 | U |
| 86-73-7 | Fluorene | 2300 | U |
| 100-01-6 | 4-Nitroaniline | 12000 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 12000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 2300 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 2300 | U |
| 118-74-1 | Hexachlorobenzene | 2300 | U |
| 87-86-5 | Pentachlorophenol | 12000 | U |
| 85-01-8 | Phenanthrene | 490 | J |
| 120-12-7 | Anthracene | 2300 | U |
| 86-74-8 | Carbazole | 2300 | U |
| 84-74-2 | Di-n-Butylphthalate | 4700 | |
| 206-44-0 | Fluoranthene | 590 | J |
| 129-00-0 | Pyrene | 480 | J |
| 85-68-7 | Butylbenzylphthalate | 16000 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2300 | U |
| 56-55-3 | Benzo (a) Anthracene | 2300 | U |
| 218-01-9 | Chrysene | 280 | J |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 34000 | |
| 117-84-0 | Di-n-Octylphthalate | 1000 | J |
| 205-99-2 | Benzo (b) Fluoranthene | 2300 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 2300 | U |
| 50-32-8 | Benzo (a) Pyrene | 2300 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 2300 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 2300 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 2300 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DWCE5-7

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060010Sample wt/vol: 30 (g/mL) gLab File ID: G6925Level: (low/med) LOWDate Received: 09/13/96% Moisture: 5 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 09/19/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO. COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | Q |
|----------|------------------------------|---|---|
| 108-95-2 | Phenol | 350 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 350 | U |
| 95-57-8 | 2-Chlorophenol | 350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 350 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 350 | U |
| 95-48-7 | 2-Methylphenol | 350 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 350 | U |
| 106-44-5 | 4-Methylphenol | 350 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 350 | U |
| 67-72-1 | Hexachloroethane | 350 | U |
| 98-95-3 | Nitrobenzene | 350 | U |
| 78-59-1 | Isophorone | 350 | U |
| 88-75-5 | 2-Nitrophenol | 350 | U |
| 105-67-9 | 2,4-Dimethylphenol | 350 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 350 | U |
| 120-83-2 | 2,4-Dichlorophenol | 350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 106-47-8 | 4-Chloroaniline | 350 | U |
| 87-68-3 | Hexachlorobutadiene | 350 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 350 | U |
| 91-57-6 | 2-Methylnaphthalene | 350 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 350 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 350 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 350 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 350 | U |
| 208-96-8 | Acenaphthylene | 350 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 350 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 350 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

(CLIENT ID)

DWCE5-7

Lab Name: IEA-NJ

Job No. : 64060

Matrix: (soil/water) Soil

Lab Sample ID: 64060010

Sample wt/vol: 30 (g/mL) g

Lab File ID: G6925

Level: (low/med) LOW

Date Received: 09/13/96

% Moisture: 5 decanted: (Y/N) N

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/19/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 350 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 350 | U |
| 84-66-2 | Diethylphthalate | 350 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 350 | U |
| 118-74-1 | Hexachlorobenzene | 350 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 86-74-8 | Carbazole | 350 | U |
| 84-74-2 | Di-n-Butylphthalate | 35 | J |
| 206-44-0 | Fluoranthene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |
| 85-68-7 | Butylbenzylphthalate | 110 | J |
| 91-94-1 | 3,3'-Dichlorobenzidine | 350 | U |
| 56-55-3 | Benzo (a) Anthracene | 350 | U |
| 218-01-9 | Chrysene | 350 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 420 | U |
| 117-84-0 | Di-n-Octylphthalate | 350 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 350 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 350 | U |
| 50-32-8 | Benzo (a) Pyrene | 350 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 350 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 350 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 350 | U |

FORM I SV-2



Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64060011

Units: mg/kg

Client ID: DWCE11-13

Sample Date: 09/12/96

Matrix: Soil

Percent Solids: 96.3

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 15:15 | 0.270 | B | 0.114 | 0.623 | 1.00 | WG6899 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 15:15 | 4.23 | | 0.293 | 0.831 | 1.00 | WG6899 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 15:15 | 0.119 | B | 0.0104 | 0.415 | 1.00 | WG6899 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 15:15 | 0.279 | B | 0.0176 | 0.415 | 1.00 | WG6899 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 15:15 | 9.43 | | 0.0602 | 1.04 | 1.00 | WG6899 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 15:15 | 5.31 | | 0.110 | 1.04 | 1.00 | WG6899 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 15:15 | 4.80 | | 0.0685 | 0.312 | 1.00 | WG6899 |
| 7439-97-6 | Mercury | CV | 09/17/96 11:02 | 363 | | 10.4 | 10.4 | 100.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 15:15 | 4.16 | | 0.142 | 1.04 | 1.00 | WG6899 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 15:15 | 0.238 | U | 0.238 | 0.519 | 1.00 | WG6899 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 15:15 | 0.136 | B | 0.0332 | 1.04 | 1.00 | WG6899 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 15:15 | 0.765 | U | 0.765 | 1.04 | 1.00 | WG6899 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 15:15 | 14.7 | | 0.762 | 3.12 | 1.00 | WG6899 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit

**IEA**

An Aquarion Company

Metals Analysis Results**000-4-16**

Prepared For:

Dvirka & Bartilucci**IEA Sample No.: 64060012**

Matrix: Soil

Percent Solids: 96.1

Units: mg/kg

Client ID: DWCE19-21

Sample Date: 09/12/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 15:20 | 0.114 | U | 0.114 | 0.624 | 1.00 | WG6899 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 15:20 | 0.832 | | 0.293 | 0.832 | 1.00 | WG6899 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 15:20 | 0.109 | B | 0.0104 | 0.416 | 1.00 | WG6899 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 15:20 | 0.0801 | B | 0.0177 | 0.416 | 1.00 | WG6899 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 15:20 | 2.47 | | 0.0604 | 1.04 | 1.00 | WG6899 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 15:20 | 2.61 | | 0.110 | 1.04 | 1.00 | WG6899 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 15:20 | 3.21 | | 0.0687 | 0.312 | 1.00 | WG6899 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:23 | 0.104 | U | 0.104 | 0.104 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 15:20 | 1.88 | | 0.142 | 1.04 | 1.00 | WG6899 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 15:20 | 0.238 | U | 0.238 | 0.520 | 1.00 | WG6899 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 15:20 | 0.0395 | B | 0.0333 | 1.04 | 1.00 | WG6899 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 15:20 | 0.767 | U | 0.767 | 1.04 | 1.00 | WG6899 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 15:20 | 12.3 | | 0.764 | 3.12 | 1.00 | WG6899 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids**Qualifiers:**

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**



IEA

An Aquarion Company

Metals Analysis Results

000-447

Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64060014DUP

Matrix: Soil

Percent Solids: 97.4

Units: mg/kg

Client ID: SDSR2022MSDDUP

Sample Date: 09/12/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|---------|------------|----------------|---------------|------|-------|-------|----------|--------|
| 7439-97-6 | Mercury | CV | 09/16/96 20:51 | 0.103 | U | 0.103 | 0.103 | 1.00 | WG6871 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64060 Date Sampled: 9/12/96
IEA Sample No: 64060001 Date Received: 9/13/96
Client Sample No: FB-2 Date Extracted: 10/2/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 10/3/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 0.11 mg/kg.

Comments:

000396A

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64060 Date Sampled: 9/12/96
IEA Sample No: 64060002 Date Received: 9/13/96
Client Sample No: SDSR12-14 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 9/26/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 4.0 mg/kg.

Comments:

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64060 Date Sampled: 9/12/96
IEA Sample No: 64060003 Date Received: 9/13/96
Client Sample No: SDSR16-18 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 9/26/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.9 mg/kg.

Comments:

000302

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64060 Date Sampled: 9/12/96
IEA Sample No: 64060004 Date Received: 9/13/96
Client Sample No: SDSR20-22 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 9/26/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 3.4 mg/kg.

Comments:

000605

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64060 Date Sampled: 9/12/96
IEA Sample No: 64060006 Date Received: 9/13/96
Client Sample No: SDSF12-14 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 9/26/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.5 mg/kg.

Comments:

000608

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64060

Date Sampled: 9/12/96

IEA Sample No: 64060007

Date Received: 9/13/96

Client Sample No: SDSF16-18

Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 9/26/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 3.4 mg/kg.

Comments:

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64060 Date Sampled: 9/12/96
IEA Sample No: 64060008 Date Received: 9/13/96
Client Sample No: SDSF20-22 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 9/26/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.4 mg/kg.

Comments:

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64060 Date Sampled: 9/12/96
IEA Sample No: 64060009 Date Received: 9/13/96
Client Sample No: DWCE3-5 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 9/27/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 230 mg/kg.

Comments: The sample contains motor oil and was analyzed with a fifty fold dilution.

000820

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64060 Date Sampled: 9/12/96
IEA Sample No: 64060010 Date Received: 9/13/96
Client Sample No: DWCE5-7 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 9/27/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.5 mg/kg.

Comments: The sample contains motor oil.

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64060 Date Sampled: 9/12/96
IEA Sample No: 64060011 Date Received: 9/13/96
Client Sample No: DWCE11-13 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil,
kerosene, varsol).

Date Analyzed: 9/27/96

Results:

The sample does not contain petroleum hydrocarbons in the
distillation range of the referenced standards. The quantitation
limit is 3.4 mg/kg.

Comments: The sample contains motor oil.

000331

Industrial & Environmental Analysts, Inc (IEA-NJ)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 64060 Date Sampled: 9/12/96
IEA Sample No: 64060012 Date Received: 9/13/96
Client Sample No: DWCE19-21 Date Extracted: 9/24/96

Extraction (SW846 - 3550) / GC-FID analysis (for #2 fuel oil, kerosene, varsol).

Date Analyzed: 9/27/96

Results:

The sample does not contain petroleum hydrocarbons in the distillation range of the referenced standards. The quantitation limit is 3.4 mg/kg.

Comments: The sample contains motor oil.

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : WATER

CLIENT ID: FB-2

LAB SAMPLE ID : 64060001
DATE RECEIVED : 13-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS :
CONCENTRATION UNITS: mg/l

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | <0.5 | 17-SEP-96 |

Method Detection Limit = .5 mg/L

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEETLAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSR12-14

LAB SAMPLE ID : 64060002
DATE RECEIVED : 13-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 82.22
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 40 | 17-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSR16-18

LAB SAMPLE ID : 64060003
DATE RECEIVED : 13-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 83.6
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 31 | 17-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSR20-22

LAB SAMPLE ID : 64060004
DATE RECEIVED : 13-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 97.38
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 20 | 17-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEETLAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSR20-22MSMS

LAB SAMPLE ID : 64060005MS
DATE RECEIVED : 13-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 87.62
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 91 % Recovery | 17-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSF12-14

LAB SAMPLE ID : 64060006
DATE RECEIVED : 13-SEP-96
DILUTION FACTOR : 5
PERCENT SOLIDS : 95.37
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 270 | 17-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSF16-18

LAB SAMPLE ID : 64060007
DATE RECEIVED : 13-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 96.18
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 30 | 17-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSF20-22

LAB SAMPLE ID : 64060008
DATE RECEIVED : 13-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 97.45
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 24 | 17-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: DWCE3-5

LAB SAMPLE ID : 64060009
DATE RECEIVED : 13-SEP-96
DILUTION FACTOR : 25
PERCENT SOLIDS : 71.81
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 5800 | 17-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: DWCE5-7

LAB SAMPLE ID : 64060010
DATE RECEIVED : 13-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 95.22
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 120 | 17-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: DWCE11-13

LAB SAMPLE ID : 64060011
DATE RECEIVED : 13-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 96.32
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 63 | 17-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: DWCE19-21

LAB SAMPLE ID : 64060012
DATE RECEIVED : 13-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 96.08
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 37 | 17-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SD5S1C2022

LAB SAMPLE ID : 64060013
DATE RECEIVED : 13-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 97.03
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 25 | 17-SEP-96 |

Method Detection Limit = 20 mg/kg

TOTAL PETROLEUM HYDROCARBONS ANALYSIS DATA SHEET

LAB NAME: IEA-NJ
MATRIX : SOIL

CLIENT ID: SDSR2022MSDDUP

LAB SAMPLE ID : 64060014DUP
DATE RECEIVED : 13-SEP-96
DILUTION FACTOR : 1
PERCENT SOLIDS : 87.62
CONCENTRATION UNITS: mg/kg

| <u>ANALYTE</u> | <u>CONCENTRATION</u> | <u>DATE ANALYZED</u> |
|------------------------------|----------------------|----------------------|
| Total Petroleum Hydrocarbons | 29 | 17-SEP-96 |

Method Detection Limit = 20 mg/kg



Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64531001

Matrix: Water

Units: ug/l

Client ID: BLG30MW1

Sample Date: 10/09/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|-------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 10/13/96 02:14 | 2.53 | U | 2.53 | 6.00 | 1.00 | WG7326 |
| 7440-38-2 | Arsenic | ICP-TR | 10/13/96 02:14 | 3.02 | U | 3.02 | 8.00 | 1.00 | WG7326 |
| 7440-41-7 | Beryllium | ICP-TR | 10/13/96 02:14 | 0.200 | U | 0.200 | 4.00 | 1.00 | WG7326 |
| 7440-43-9 | Cadmium | ICP-TR | 10/13/96 02:14 | 0.460 | B | 0.250 | 4.00 | 1.00 | WG7326 |
| 7440-47-3 | Chromium | ICP-TR | 10/13/96 02:14 | 0.940 | B | 0.310 | 10.0 | 1.00 | WG7326 |
| 7440-50-8 | Copper | ICP-TR | 10/13/96 02:14 | 5.51 | B | 0.980 | 10.0 | 1.00 | WG7326 |
| 7439-92-1 | Lead | ICP-TR | 10/13/96 02:14 | 1.86 | U | 1.86 | 3.00 | 1.00 | WG7326 |
| 7439-97-6 | Mercury | CV | 10/14/96 14:35 | 0.200 | U | 0.200 | 0.200 | 1.00 | WG7356 |
| 7440-02-0 | Nickel | ICP-TR | 10/13/96 02:14 | 0.420 | U | 0.420 | 10.0 | 1.00 | WG7326 |
| 7782-49-2 | Selenium | ICP-TR | 10/13/96 02:14 | 3.00 | U | 3.00 | 5.00 | 1.00 | WG7326 |
| 7440-22-4 | Silver | ICP-TR | 10/13/96 02:14 | 0.270 | U | 0.270 | 10.0 | 1.00 | WG7326 |
| 7440-28-0 | Thallium | ICP-TR | 10/13/96 02:14 | 7.37 | U | 7.37 | 10.0 | 1.00 | WG7326 |
| 7440-66-6 | Zinc | ICP-TR | 10/13/96 02:14 | 18.1 | U | 18.1 | 30.0 | 1.00 | WG7326 |

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



Prepared For:
Dvirka & Bartilucci

IEA Sample No.: 64531002

Matrix: Water

Units: ug/l

Client ID: PLMW1

Sample Date: 10/09/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|-------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 10/13/96 02:20 | 2.53 | U | 2.53 | 6.00 | 1.00 | WG7326 |
| 7440-38-2 | Arsenic | ICP-TR | 10/13/96 02:20 | 3.02 | U | 3.02 | 8.00 | 1.00 | WG7326 |
| 7440-41-7 | Beryllium | ICP-TR | 10/13/96 02:20 | 0.200 | U | 0.200 | 4.00 | 1.00 | WG7326 |
| 7440-43-9 | Cadmium | ICP-TR | 10/13/96 02:20 | 0.390 | B | 0.250 | 4.00 | 1.00 | WG7326 |
| 7440-47-3 | Chromium | ICP-TR | 10/13/96 02:20 | 0.450 | B | 0.310 | 10.0 | 1.00 | WG7326 |
| 7440-50-8 | Copper | ICP-TR | 10/13/96 02:20 | 6.64 | B | 0.980 | 10.0 | 1.00 | WG7326 |
| 7439-92-1 | Lead | ICP-TR | 10/13/96 02:20 | 1.86 | U | 1.86 | 3.00 | 1.00 | WG7326 |
| 7439-97-6 | Mercury | CV | 10/14/96 14:45 | 0.200 | U | 0.200 | 0.200 | 1.00 | WG7356 |
| 7440-02-0 | Nickel | ICP-TR | 10/13/96 02:20 | 0.420 | U | 0.420 | 10.0 | 1.00 | WG7326 |
| 7782-49-2 | Selenium | ICP-TR | 10/13/96 02:20 | 3.00 | U | 3.00 | 5.00 | 1.00 | WG7326 |
| 7440-22-4 | Silver | ICP-TR | 10/13/96 02:20 | 0.270 | U | 0.270 | 10.0 | 1.00 | WG7326 |
| 7440-28-0 | Thallium | ICP-TR | 10/13/96 02:20 | 7.37 | U | 7.37 | 10.0 | 1.00 | WG7326 |
| 7440-66-6 | Zinc | ICP-TR | 10/13/96 02:20 | 18.1 | U | 18.1 | 30.0 | 1.00 | WG7326 |

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit



Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64233002

Matrix: Water

Units: ug/l

Client ID: HP-0038-A

Sample Date: 09/25/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 10/15/96 07:23 | 127 | U | 127 | 300 | 50.00 | WG7326 |
| 7440-38-2 | Arsenic | ICP-TR | 10/15/96 07:23 | 795 | | 151 | 400 | 50.00 | WG7326 |
| 7440-41-7 | Beryllium | ICP-TR | 10/15/96 07:23 | 34.0 | B | 10.0 | 200 | 50.00 | WG7326 |
| 7440-43-9 | Cadmium | ICP-TR | 10/15/96 07:23 | 27.5 | B | 12.5 | 200 | 50.00 | WG7326 |
| 7440-47-3 | Chromium | ICP-TR | 10/15/96 07:23 | 2,020 | | 15.5 | 500 | 50.00 | WG7326 |
| 7440-50-8 | Copper | ICP-TR | 10/15/96 07:23 | 3,880 | | 49.0 | 500 | 50.00 | WG7326 |
| 7439-92-1 | Lead | ICP-TR | 10/15/96 07:23 | 5,200 | | 93.0 | 150 | 50.00 | WG7326 |
| 7440-02-0 | Nickel | ICP-TR | 10/15/96 07:23 | 1,210 | | 21.0 | 500 | 50.00 | WG7326 |
| 7782-49-2 | Selenium | ICP-TR | 10/15/96 07:23 | 150 | U | 150 | 250 | 50.00 | WG7326 |
| 7440-22-4 | Silver | ICP-TR | 10/15/96 07:23 | 19.0 | B | 13.5 | 500 | 50.00 | WG7326 |
| 7440-28-0 | Thallium | ICP-TR | 10/15/96 07:23 | 369 | U | 369 | 500 | 50.00 | WG7326 |
| 7440-66-6 | Zinc | ICP-TR | 10/15/96 07:23 | 4,380 | | 906 | 1,500 | 50.00 | WG7326 |

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CONFIDENTIAL

SDSF16-18

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060007Sample wt/vol: 30 (g/mL) gLab File ID: G6922Level: (low/med) LOWDate Received: 09/13/96% Moisture: 4 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 09/19/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
091235

SDSF16-18

Lab Name: IEA-NJ

Job No. : 64060

Matrix: (soil/water) Soil

Lab Sample ID: 64060007

Sample wt/vol: 30 (g/mL) g

Lab File ID: G6922

Level: (low/med) LOW

Date Received: 09/13/96

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/19/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|-----------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 340 | U |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 340 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo(a)Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis(2-Ethylhexyl) Phthalate | 340 | U |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 340 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 340 | U |
| 50-32-8 | Benzo(a)Pyrene | 340 | U |
| 193-39-5 | Indeno(1,2,3-cd)Pyrene | 340 | U |
| 53-70-3 | Dibenz(a,h)Anthracene | 340 | U |
| 191-24-2 | Benzo(g,h,i)Perylene | 340 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: NGINS

SDSF20-22

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060008Sample wt/vol: 30 (g/mL) gLab File ID: G6923Level: (low/med) LOWDate Received: 09/13/96% Moisture: 3 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 09/19/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DWCE3-5

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060009Sample wt/vol: 30 (g/mL) gLab File ID: G6934Level: (low/med) LOWDate Received: 09/13/96% Moisture: 28 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 09/19/96Injection Volume: 1 (uL)Dilution Factor: 5.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 4100 | |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 2300 | U |
| 95-57-8 | 2-Chlorophenol | 2300 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 2300 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2300 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 2300 | U |
| 95-48-7 | 2-Methylphenol | 2300 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 2300 | U |
| 106-44-5 | 4-Methylphenol | 2300 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 2300 | U |
| 67-72-1 | Hexachloroethane | 2300 | U |
| 98-95-3 | Nitrobenzene | 2300 | U |
| 78-59-1 | Isophorone | 2300 | U |
| 88-75-5 | 2-Nitrophenol | 2300 | U |
| 105-67-9 | 2,4-Dimethylphenol | 2300 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 2300 | U |
| 120-83-2 | 2,4-Dichlorophenol | 2300 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2300 | U |
| 91-20-3 | Naphthalene | 2200 | J |
| 106-47-8 | 4-Chloroaniline | 2300 | U |
| 87-68-3 | Hexachlorobutadiene | 2300 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 2300 | U |
| 91-57-6 | 2-Methylnaphthalene | 1500 | J |
| 77-47-4 | Hexachlorocyclopentadiene | 2300 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 2300 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 12000 | U |
| 91-58-7 | 2-Chloronaphthalene | 2300 | U |
| 88-74-4 | 2-Nitroaniline | 12000 | U |
| 131-11-3 | Dimethylphthalate | 2300 | U |
| 208-96-8 | Acenaphthylene | 2300 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 2300 | U |
| 99-09-2 | 3-Nitroaniline | 12000 | U |
| 83-32-9 | Acenaphthene | 2300 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000013
CLIENT ID

DWCE3-5

Lab Name: IEA-NJ

Job No. : 64060

Matrix: (soil/water) Soil

Lab Sample ID: 64060009

Sample wt/vol: 30 (g/mL) g

Lab File ID: G6934

Level: (low/med) LOW

Date Received: 09/13/96

% Moisture: 28 decanted: (Y/N) N

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/19/96

Injection Volume: 1 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 12000 | U |
| 100-02-7 | 4-Nitrophenol | 12000 | U |
| 132-64-9 | Dibenzofuran | 2300 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 2300 | U |
| 84-66-2 | Diethylphthalate | 2300 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 2300 | U |
| 86-73-7 | Fluorene | 2300 | U |
| 100-01-6 | 4-Nitroaniline | 12000 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 12000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 2300 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 2300 | U |
| 118-74-1 | Hexachlorobenzene | 2300 | U |
| 87-86-5 | Pentachlorophenol | 12000 | U |
| 85-01-8 | Phenanthrene | 490 | J |
| 120-12-7 | Anthracene | 2300 | U |
| 86-74-8 | Carbazole | 2300 | U |
| 84-74-2 | Di-n-Butylphthalate | 4700 | |
| 206-44-0 | Fluoranthene | 590 | J |
| 129-00-0 | Pyrene | 480 | J |
| 85-68-7 | Butylbenzylphthalate | 16000 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2300 | U |
| 56-55-3 | Benzo (a) Anthracene | 2300 | U |
| 218-01-9 | Chrysene | 280 | J |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 34000 | |
| 117-84-0 | Di-n-Octylphthalate | 1000 | J |
| 205-99-2 | Benzo (b) Fluoranthene | 2300 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 2300 | U |
| 50-32-8 | Benzo (a) Pyrene | 2300 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 2300 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 2300 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 2300 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DWCE5-7

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060010Sample wt/vol: 30 (g/mL) gLab File ID: G6925Level: (low/med) LOWDate Received: 09/13/96% Moisture: 5 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 09/19/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 350 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 350 | U |
| 95-57-8 | 2-Chlorophenol | 350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 350 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 350 | U |
| 95-48-7 | 2-Methylphenol | 350 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 350 | U |
| 106-44-5 | 4-Methylphenol | 350 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 350 | U |
| 67-72-1 | Hexachloroethane | 350 | U |
| 98-95-3 | Nitrobenzene | 350 | U |
| 78-59-1 | Isophorone | 350 | U |
| 88-75-5 | 2-Nitrophenol | 350 | U |
| 105-67-9 | 2,4-Dimethylphenol | 350 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 350 | U |
| 120-83-2 | 2,4-Dichlorophenol | 350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 106-47-8 | 4-Chloroaniline | 350 | U |
| 87-68-3 | Hexachlorobutadiene | 350 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 350 | U |
| 91-57-6 | 2-Methylnaphthalene | 350 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 350 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 350 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 350 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 350 | U |
| 208-96-8 | Acenaphthylene | 350 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 350 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 350 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

(CLIENT ID)

DWCE5-7

Lab Name: IEA-NJ

Job No. : 64060

Matrix: (soil/water) Soil

Lab Sample ID: 64060010

Sample wt/vol: 30 (g/mL) g

Lab File ID: G6925

Level: (low/med) LOW

Date Received: 09/13/96

% Moisture: 5 decanted: (Y/N) N

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/19/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 350 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 350 | U |
| 84-66-2 | Diethylphthalate | 350 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 350 | U |
| 118-74-1 | Hexachlorobenzene | 350 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 86-74-8 | Carbazole | 350 | U |
| 84-74-2 | Di-n-Butylphthalate | 35 | J |
| 206-44-0 | Fluoranthene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |
| 85-68-7 | Butylbenzylphthalate | 110 | J |
| 91-94-1 | 3,3'-Dichlorobenzidine | 350 | U |
| 56-55-3 | Benzo (a) Anthracene | 350 | U |
| 218-01-9 | Chrysene | 350 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 420 | |
| 117-84-0 | Di-n-Octylphthalate | 350 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 350 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 350 | U |
| 50-32-8 | Benzo (a) Pyrene | 350 | U |
| 193-39-5 | Indeno (1, 2, 3-cd) Pyrene | 350 | U |
| 53-70-3 | Dibenz (a, h) Anthracene | 350 | U |
| 191-24-2 | Benzo (g, h, i) Perylene | 350 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CONFIDENTIAL

DWCE11-13

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060011Sample wt/vol: 30 (g/mL) gLab File ID: G6926Level: (low/med) LOWDate Received: 09/13/96% Moisture: 4 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 09/19/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/kg

Q

CAS NO.

COMPOUND

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95 50 1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID
000253

DWCE11-13

Lab Name: IEA-NJ

Job No. : 64060

Matrix: (soil/water) Soil

Lab Sample ID: 64060011

Sample wt/vol: 30 (g/mL) g

Lab File ID: G6926

Level: (low/med) LOW

Date Received: 09/13/96

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 09/17/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/19/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|-----------|------------------------------|--|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 340 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2 | Diethylphthalate | 340 | U |
| 7005-72-3 | 4-Chlorophenyl-Phenyl Ether | 340 | U |
| 86-73-7 | Fluorene | 340 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340 | U |
| 101-55-3 | 4-Bromophenyl-Phenylether | 340 | U |
| 118-74-1 | Hexachlorobenzene | 340 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 340 | U |
| 120-12-7 | Anthracene | 340 | U |
| 86-74-8 | Carbazole | 340 | U |
| 84-74-2 | Di-n-Butylphthalate | 50 | J |
| 206-44-0 | Fluoranthene | 340 | U |
| 129-00-0 | Pyrene | 340 | U |
| 85-68-7 | Butylbenzylphthalate | 140 | J |
| 91-94-1 | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3 | Benzo (a) Anthracene | 340 | U |
| 218-01-9 | Chrysene | 340 | U |
| 117-81-7 | Bis (2-Ethylhexyl) Phthalate | 290 | J |
| 117-84-0 | Di-n-Octylphthalate | 340 | U |
| 205-99-2 | Benzo (b) Fluoranthene | 340 | U |
| 207-08-9 | Benzo (k) Fluoranthene | 340 | U |
| 50-32-8 | Benzo (a) Pyrene | 340 | U |
| 193-39-5 | Indeno (1,2,3-cd) Pyrene | 340 | U |
| 53-70-3 | Dibenz (a,h) Anthracene | 340 | U |
| 191-24-2 | Benzo (g,h,i) Perylene | 340 | U |

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT 000000

DWCE19-21

Lab Name: IEA-NJJob No. : 64060Matrix: (soil/water) SoilLab Sample ID: 64060012Sample wt/vol: 30 (g/mL) gLab File ID: G6927Level: (low/med) LOWDate Received: 09/13/96% Moisture: 4 decanted: (Y/N) NDate Extracted: 09/17/96Concentrated Extract Volume: 1000 (uL)Date Analyzed: 09/19/96Injection Volume: 1 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NO.

COMPOUND

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u> | Q |
|----------|------------------------------|--|---|
| 108-95-2 | Phenol | 340 | U |
| 111-44-4 | Bis(2-Chloroethyl) Ether | 340 | U |
| 95-57-8 | 2-Chlorophenol | 340 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 340 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7 | 2-Methylphenol | 340 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 340 | U |
| 106-44-5 | 4-Methylphenol | 340 | U |
| 621-64-7 | N-Nitrosodi-n-Propylamine | 340 | U |
| 67-72-1 | Hexachloroethane | 340 | U |
| 98-95-3 | Nitrobenzene | 340 | U |
| 78-59-1 | Isophorone | 340 | U |
| 88-75-5 | 2-Nitrophenol | 340 | U |
| 105-67-9 | 2,4-Dimethylphenol | 340 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 340 | U |
| 120-83-2 | 2,4-Dichlorophenol | 340 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3 | Naphthalene | 340 | U |
| 106-47-8 | 4-Chloroaniline | 340 | U |
| 87-68-3 | Hexachlorobutadiene | 340 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 340 | U |
| 91-57-6 | 2-Methylnaphthalene | 340 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 340 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 340 | U |
| 208-96-8 | Acenaphthylene | 340 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 340 | U |

FORM I SV-1



IEA

An Aquarion Company

Metals Analysis Results

000435

Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64060001

Matrix: Water

Units: ug/l

Client ID: FB-2

Sample Date: 09/12/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|-------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 13:28 | 2.53 | U | 2.53 | 6.00 | 1.00 | WG6899 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 13:28 | 3.02 | U | 3.02 | 8.00 | 1.00 | WG6899 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 13:28 | 0.200 | U | 0.200 | 4.00 | 1.00 | WG6899 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 13:28 | 0.250 | U | 0.250 | 4.00 | 1.00 | WG6899 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 13:28 | 2.87 | B | 0.310 | 10.0 | 1.00 | WG6899 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 13:28 | 2.18 | B | 0.980 | 10.0 | 1.00 | WG6899 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 13:28 | 2.31 | B | 1.86 | 3.00 | 1.00 | WG6899 |
| 7439-97-6 | Mercury | CV | 09/16/96 20:47 | 0.200 | U | 0.200 | 0.200 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 13:28 | 0.420 | U | 0.420 | 10.0 | 1.00 | WG6899 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 13:28 | 3.00 | U | 3.00 | 5.00 | 1.00 | WG6899 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 13:28 | 0.780 | B | 0.270 | 10.0 | 1.00 | WG6899 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 13:28 | 7.37 | U | 7.37 | 10.0 | 1.00 | WG6899 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 13:28 | 18.1 | U | 18.1 | 30.0 | 1.00 | WG6899 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit

**IEA**

An Aquarion Company

Metals Analysis Results

000-136

Prepared For:

Dvirka & Bartilucci**IEA Sample No.: 64060002**

Matrix: Soil

Percent Solids: 82.2

Units: mg/kg

Client ID: SDSR12-14

Sample Date: 09/12/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 13:34 | 0.134 | U | 0.134 | 0.730 | 1.00 | WG6899 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 13:34 | 0.564 | B | 0.343 | 0.973 | 1.00 | WG6899 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 13:34 | 0.0633 | B | 0.0122 | 0.487 | 1.00 | WG6899 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 13:34 | 0.0207 | U | 0.0207 | 0.487 | 1.00 | WG6899 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 13:34 | 1.79 | | 0.0706 | 1.22 | 1.00 | WG6899 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 13:34 | 1.86 | | 0.129 | 1.22 | 1.00 | WG6899 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 13:34 | 0.748 | | 0.0803 | 0.365 | 1.00 | WG6899 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:02 | 0.122 | U | 0.122 | 0.122 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 13:34 | 0.808 | B | 0.167 | 1.22 | 1.00 | WG6899 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 13:34 | 0.278 | U | 0.278 | 0.608 | 1.00 | WG6899 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 13:34 | 0.0511 | B | 0.0389 | 1.22 | 1.00 | WG6899 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 13:34 | 0.896 | U | 0.896 | 1.22 | 1.00 | WG6899 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 13:34 | 2.95 | B | 0.893 | 3.65 | 1.00 | WG6899 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids**Qualifiers:**

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**

**IEA**

An Aquarion Company

Metals Analysis Results

000-137

Prepared For:

Dvirka & Bartilucci**IEA Sample No.: 64060003**

Matrix: Soil

Percent Solids: 83.6

Units: mg/kg

Client ID: SDSR16-18

Sample Date: 09/12/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 14:20 | 0.132 | U | 0.132 | 0.718 | 1.00 | WG6899 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 14:20 | 0.754 | B | 0.337 | 0.957 | 1.00 | WG6899 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 14:20 | 0.100 | B | 0.0120 | 0.478 | 1.00 | WG6899 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 14:20 | 0.0239 | B | 0.0203 | 0.478 | 1.00 | WG6899 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 14:20 | 2.46 | | 0.0694 | 1.20 | 1.00 | WG6899 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 14:20 | 2.33 | | 0.127 | 1.20 | 1.00 | WG6899 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 14:20 | 0.996 | | 0.0789 | 0.359 | 1.00 | WG6899 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:04 | 0.120 | U | 0.120 | 0.120 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 14:20 | 1.87 | | 0.164 | 1.20 | 1.00 | WG6899 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 14:20 | 0.274 | U | 0.274 | 0.598 | 1.00 | WG6899 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 14:20 | 0.0383 | U | 0.0383 | 1.20 | 1.00 | WG6899 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 14:20 | 0.882 | U | 0.882 | 1.20 | 1.00 | WG6899 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 14:20 | 4.83 | | 0.878 | 3.59 | 1.00 | WG6899 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids**Qualifiers:**

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**

**IEA**

An Aquarion Company

Metals Analysis Results

000438

Prepared For:

Dvirka & Bartilucci**IEA Sample No.: 64060004**

Matrix: Soil

Percent Solids: 97.4

Units: mg/kg

Client ID: SDSR20-22

Sample Date: 09/12/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 14:26 | 0.140 | B | 0.113 | 0.616 | 1.00 | WG6899 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 14:26 | 1.57 | | 0.290 | 0.821 | 1.00 | WG6899 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 14:26 | 0.109 | B | 0.0103 | 0.411 | 1.00 | WG6899 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 14:26 | 0.0174 | U | 0.0174 | 0.411 | 1.00 | WG6899 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 14:26 | 5.38 | | 0.0595 | 1.03 | 1.00 | WG6899 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 14:26 | 3.08 | | 0.109 | 1.03 | 1.00 | WG6899 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 14:26 | 1.06 | | 0.0678 | 0.308 | 1.00 | WG6899 |
| 7439-97-6 | Mercury | CV | 09/16/96 20:49 | 0.103 | U | 0.103 | 0.103 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 14:26 | 1.56 | | 0.141 | 1.03 | 1.00 | WG6899 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 14:26 | 0.235 | U | 0.235 | 0.513 | 1.00 | WG6899 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 14:26 | 0.0483 | B | 0.0328 | 1.03 | 1.00 | WG6899 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 14:26 | 0.757 | U | 0.757 | 1.03 | 1.00 | WG6899 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 14:26 | 4.77 | | 0.754 | 3.08 | 1.00 | WG6899 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids**Qualifiers:**

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**



IEA

An Aquarion Company

Metals Analysis Results

000439

Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64060005MS

Matrix: Soil

Units: mg/kg

Client ID: SDSR20-22MSMS

Sample Date: 09/12/96

Percent Solids: 87.6

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|---------|------------|----------------|---------------|------|-------|-------|----------|--------|
| 7439-97-6 | Mercury | CV | 09/16/96 20:53 | 0.679 | | 0.114 | 0.114 | 1.00 | WG6871 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**



Prepared For:

Dvirka & Bartilucci

IEA Sample No.: 64060006

Matrix: Soil

Percent Solids: 95.4

Units: mg/kg

Client ID: SDSF12-14

Sample Date: 09/12/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 14:37 | 0.115 | U | 0.115 | 0.629 | 1.00 | WG6899 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 14:37 | 1.08 | | 0.296 | 0.838 | 1.00 | WG6899 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 14:37 | 0.0943 | B | 0.0105 | 0.419 | 1.00 | WG6899 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 14:37 | 0.0231 | B | 0.0178 | 0.419 | 1.00 | WG6899 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 14:37 | 2.50 | | 0.0608 | 1.05 | 1.00 | WG6899 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 14:37 | 4.61 | | 0.111 | 1.05 | 1.00 | WG6899 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 14:37 | 1.75 | | 0.0692 | 0.314 | 1.00 | WG6899 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:06 | 0.105 | U | 0.105 | 0.105 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 14:37 | 1.26 | | 0.144 | 1.05 | 1.00 | WG6899 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 14:37 | 0.240 | U | 0.240 | 0.524 | 1.00 | WG6899 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 14:37 | 0.0985 | B | 0.0335 | 1.05 | 1.00 | WG6899 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 14:37 | 0.772 | U | 0.772 | 1.05 | 1.00 | WG6899 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 14:37 | 13.9 | | 0.769 | 3.14 | 1.00 | WG6899 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids

Qualifiers:

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit

**IEA**

An Aquarion Company

Metals Analysis Results

000-1-11

Prepared For:

Dvirka & Bartilucci**IEA Sample No.: 64060007**

Matrix: Soil

Percent Solids: 96.2

Units: mg/kg

Client ID: SDSF16-18

Sample Date: 09/12/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 14:42 | 0.114 | U | 0.114 | 0.624 | 1.00 | WG6899 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 14:42 | 0.700 | B | 0.293 | 0.832 | 1.00 | WG6899 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 14:42 | 0.0977 | B | 0.0104 | 0.416 | 1.00 | WG6899 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 14:42 | 0.0177 | U | 0.0177 | 0.416 | 1.00 | WG6899 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 14:42 | 3.38 | | 0.0603 | 1.04 | 1.00 | WG6899 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 14:42 | 2.77 | | 0.110 | 1.04 | 1.00 | WG6899 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 14:42 | 1.23 | | 0.0686 | 0.312 | 1.00 | WG6899 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:08 | 0.104 | U | 0.104 | 0.104 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 14:42 | 1.62 | | 0.142 | 1.04 | 1.00 | WG6899 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 14:42 | 0.238 | U | 0.238 | 0.520 | 1.00 | WG6899 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 14:42 | 0.0333 | U | 0.0333 | 1.04 | 1.00 | WG6899 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 14:42 | 0.766 | U | 0.766 | 1.04 | 1.00 | WG6899 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 14:42 | 5.76 | | 0.763 | 3.12 | 1.00 | WG6899 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids**Qualifiers:**

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**

**IEA**

An Aquarion Company

Metals Analysis Results

000-442

Prepared For:

Dvirka & Bartilucci**IEA Sample No.: 64060008**

Matrix: Soil

Percent Solids: 97.5

Units: mg/kg

Client ID: SDSF20-22

Sample Date: 09/12/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 14:47 | 0.113 | U | 0.113 | 0.615 | 1.00 | WG6899 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 14:47 | 0.939 | | 0.289 | 0.820 | 1.00 | WG6899 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 14:47 | 0.0872 | B | 0.0102 | 0.410 | 1.00 | WG6899 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 14:47 | 0.0246 | B | 0.0174 | 0.410 | 1.00 | WG6899 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 14:47 | 2.90 | | 0.0595 | 1.02 | 1.00 | WG6899 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 14:47 | 2.39 | | 0.109 | 1.02 | 1.00 | WG6899 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 14:47 | 1.03 | | 0.0677 | 0.308 | 1.00 | WG6899 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:10 | 0.102 | U | 0.102 | 0.102 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 14:47 | 1.50 | | 0.140 | 1.02 | 1.00 | WG6899 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 14:47 | 0.235 | U | 0.235 | 0.513 | 1.00 | WG6899 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 14:47 | 0.0544 | B | 0.0328 | 1.02 | 1.00 | WG6899 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 14:47 | 0.756 | U | 0.756 | 1.02 | 1.00 | WG6899 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 14:47 | 5.51 | | 0.753 | 3.08 | 1.00 | WG6899 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids**Qualifiers:**

U = Undetected below MDL

B = Detected between MDL and RL*

*RL = Reporting Limit

**IEA**

An Aquarion Company

Metals Analysis Results**000443**

Prepared For:

Dvirka & Bartilucci**IEA Sample No.: 64060009**

Matrix: Soil

Percent Solids: 71.8

Units: mg/kg

Client ID: DWCE3-5

Sample Date: 09/12/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 14:53 | 6.32 | | 0.153 | 0.836 | 1.00 | WG6899 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 14:53 | 5.72 | | 0.393 | 1.11 | 1.00 | WG6899 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 14:53 | 0.404 | B | 0.0139 | 0.557 | 1.00 | WG6899 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 14:53 | 34.4 | | 0.0237 | 0.557 | 1.00 | WG6899 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 14:53 | 599 | | 0.0808 | 1.39 | 1.00 | WG6899 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 14:53 | 330 | | 0.148 | 1.39 | 1.00 | WG6899 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 14:53 | 392 | | 0.0919 | 0.418 | 1.00 | WG6899 |
| 7439-97-6 | Mercury | CV | 09/17/96 10:59 | 22.4 | | 1.39 | 1.39 | 10.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 14:53 | 204 | | 0.191 | 1.39 | 1.00 | WG6899 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 14:53 | 0.760 | | 0.319 | 0.696 | 1.00 | WG6899 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 14:53 | 8.91 | | 0.0446 | 1.39 | 1.00 | WG6899 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 14:53 | 1.03 | U | 1.03 | 1.39 | 1.00 | WG6899 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 14:53 | 1,270 | | 1.02 | 4.18 | 1.00 | WG6899 |

All Concentrations, RL's, and MDL's are corrected for Percent Solids**Qualifiers:**

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**

**IEA**

An Aquarion Company

Metals Analysis Results

000444

Prepared For:

Dvirka & Bartilucci**IEA Sample No.: 64060010**

Matrix: Soil

Percent Solids: 95.2

Units: mg/kg

Client ID: DWCE5-7

Sample Date: 09/12/96

| CAS No. | Analyte | Instrument | AnalyzeDate | Concentration | Qual | MDL | RL* | Dilution | Batch |
|-----------|-----------|------------|----------------|---------------|------|--------|-------|----------|--------|
| 7440-36-0 | Antimony | ICP-TR | 09/18/96 15:09 | 0.159 | B | 0.116 | 0.630 | 1.00 | WG6899 |
| 7440-38-2 | Arsenic | ICP-TR | 09/18/96 15:09 | 1.10 | | 0.296 | 0.840 | 1.00 | WG6899 |
| 7440-41-7 | Beryllium | ICP-TR | 09/18/96 15:09 | 0.0788 | B | 0.0105 | 0.420 | 1.00 | WG6899 |
| 7440-43-9 | Cadmium | ICP-TR | 09/18/96 15:09 | 2.15 | | 0.0178 | 0.420 | 1.00 | WG6899 |
| 7440-47-3 | Chromium | ICP-TR | 09/18/96 15:09 | 4.46 | | 0.0609 | 1.05 | 1.00 | WG6899 |
| 7440-50-8 | Copper | ICP-TR | 09/18/96 15:09 | 10.8 | | 0.111 | 1.05 | 1.00 | WG6899 |
| 7439-92-1 | Lead | ICP-TR | 09/18/96 15:09 | 18.0 | | 0.0693 | 0.315 | 1.00 | WG6899 |
| 7439-97-6 | Mercury | CV | 09/16/96 21:15 | 3.41 | | 0.105 | 0.105 | 1.00 | WG6871 |
| 7440-02-0 | Nickel | ICP-TR | 09/18/96 15:09 | 3.08 | | 0.144 | 1.05 | 1.00 | WG6899 |
| 7782-49-2 | Selenium | ICP-TR | 09/18/96 15:09 | 0.294 | B | 0.240 | 0.525 | 1.00 | WG6899 |
| 7440-22-4 | Silver | ICP-TR | 09/18/96 15:09 | 0.204 | B | 0.0336 | 1.05 | 1.00 | WG6899 |
| 7440-28-0 | Thallium | ICP-TR | 09/18/96 15:09 | 0.774 | U | 0.774 | 1.05 | 1.00 | WG6899 |
| 7440-66-6 | Zinc | ICP-TR | 09/18/96 15:09 | 56.9 | | 0.771 | 3.15 | 1.00 | WG6899 |

All Concentrations,RL's, and MDL's are corrected for Percent Solids**Qualifiers:**

U = Undetected below MDL

B = Detected between MDL and RL*

***RL = Reporting Limit**