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FINAL

CONTAMINATION ASSESSMENT/ REMEDIAL ACTIVITIES INVESTIGATION BUILDINGS 649 AND 755 (SITE 30) NAVAL AIR STATION PENSACOLA PENSACOLA, FLORIDA

INTERIM DATA REPORT

October 1991

Contract N62467-88-C-0200

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* This Interim Data Report contains the results of Phase I of the Contamination Assessment/Remedial Activities Investigation conducted at Buildings 649 and 755 (Site 30), located on the Naval Air Station in Pensacola, Florida. This work was conducted as part of the U. S. Navy's Installation Restoration Program. The objective of the Phase I investigation at Site 30 was to identify principal areas and primary contaminants of concern at the site and to provide recommendations for subsequent phases of investigation. This investigation was the first step in the completion of Remedial Investigation/Feasibility Study for the site. Site 30 consists of two buildings (649 and 755), which were formerly metal-plating facilities, and an adjacent wetland area and associated creek and paved ditch. The results of this investigation indicate that surface water, sediment, soil, and groundwater are contaminated at the site. Metals, total recoverable petroleum hydrocarbons, volatile organic compounds, polynuclear aromatic hydrocarbons, and phenols are the primary contaminants. Further assessment activities are required

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* Indicates item is all or partly site specific.

* 19. on and in the vicinity of Site 30.

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TABLE OF CONTENTS

Section		Page
	RECORD OF DOCUMENT CHANGES	xii
	EXECUTIVE SUMMARY	1
1	INTRODUCTION	1-1
2	INVESTIGATION METHODOLOGY	2-1
	2.1 AERIAL PHOTOGRAPH AND EXISTING DATA ANALYSIS	2-1
	2.2 SITE RECONNAISSANCE	2-1
	2.3 HABITAT/BIOTA SURVEY	2-3
	2.4 HNu/OVA SURFACE EMISSIONS SURVEY AND PARTICULATE AIR SAMPLING	2-3
	2.5 RADIATION SURVEY	2-3
	2.6 GEOPHYSICAL SURVEY	2-5
	2.7 UTILITIES SURVEY	2-5
	2.8 DATA ANALYSIS	2-6
	2.9 SURFACE WATER SAMPLING	2-6
	2.10 SEDIMENT SAMPLING	2-8
	2.11 SOIL BORINGS AND TEMPORARY MONITORING WELL INSTALLATION	2-8
	2.12 GROUNDWATER SAMPLING	2-11
	2.13 HYDROLOGIC ASSESSMENT	2-11
	2.14 FIELD QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)	2-12
	2.14.1 Field (QA/QC) Samples	2-12

[Bold items enclosed in brackets denote changes to the last version of document]

Table of Contents (Cont.)

Sect		Page
	2.14.2 Decontamination Procedures	2-13
	2.15 INVESTIGATION-DERIVED MANAGEMENT	2-13
3	RESULTS	3-1
	3.1 AERIAL PHOTOGRAPH AND EXISTING DATA ANALYSIS	3-1
	3.2 SITE RECONNAISSANCE	3-2
	3.3 HABITAT/BIOTA SURVEY	3-3
	3.4 SURFACE EMISSIONS SURVEY AND PARTICULATE AIR SAMPLING	3-7
	3.5 RADIATION SURVEY	3-10
	3.6 GEOPHYSICAL SURVEY	3-10
	3.7 HYDROLOGIC ASSESSMENT	3-12
	3.7.1 Shallov Subsurface Lithology	3-12
	3.7.2 Water Levels and Groundwater/Surface Water Flow	3-13
	3.8 CHEMICAL ANALYSES	3-18
	3.8.1 Surface Water	3-18
	3.8.2 Sediment	3-21
	3.8.3 Soil	3-[30]
	3.8.4 Groundwater	3-(39]
	3.8.4.1 Field Parameters	3-[39]
	3.8.4.2 Analytical Screening Parameters	3-[41]
	3.9 CONTAMINATION DISTRIBUTION/SOURCE DISCUSSION	3-[45]
	3.9.1 Surface Water	3-[45]
	3.9.2 Sediment	3-[46]
	3.9.3 soil	3-[47]
	3.9.4 Groundwater	3-[47]
	3.10 QA/QC	3-(49]
	3.10.1 Field QA/QC	3-[49]
	3.10.2 Laboratory QA/QC	3-[49]

3000343

[Bold items enclosed in brackets denote changes to the last version of document]

Table of Contents (Cont.)

Section		Page
4	CONCLUSIONS	4-1
5	REFERENCES	5-1
6	FLORIDA PROFESSIONAL GEOLOGIST SEAL	6-1

Appendix		Page
A	BIRDS OBSERVED DURING HABITAT/BIOTA SURVEY	A-1
B	SURFACE EMISSIONS DATA	B-1
C	EM-31 DATA	C-1
D	METAL DETECTOR DATA	D-1
E	TEMPORARY MONITORING WELL, SOIL BORING, AND LITHOLOGIC INFORHATION	E-1
F	STREAM FLOW MEASUREMENT DATA	F-1
G	SURFACE WATER SAMPLING ANALYTICAL SCREENING RESULTS	G-1
H	SEDIMENT SAMPLING ANALYTICAL SCREENING RESULTS	El-1
I	SOIL SAHPLING ANALYTICAL SCREENING RESULTS	I-1
J	GROUNDWATER SAMPLING ANALYTICAL SCREENING RESULTS	J-1

[Bold items enclosed in brackets denote changes to the last version of document]

LIST, OF TABLES

Table		Page
2-1	Aerial Photographs and Maps Used in the Aerial Photograph Analysis, NAS Pensacola Site 30	2-2
2-2	Sampling and Analytical Summary, NAS Pensacola Site 30	2-9
3-1	Temporary Monitoring Uell Construction Information and Water Level Elevations, NAS Pensacola Site 30	3-14
3-2	Surface Water Flov Rate Measurements, NAS Pensacola Site 30	3-17
3-3	Summary Analytical Screening Results for Surface Water Samples, NAS Pensacola Site 30	3-19
3-4	Summary Analytical Screening Results €or Sediment Samples, NAS Pensacola Site 30	3-22
3-5	Summary Analytical Screening Results for Soil Samples, NAS Pensacola Site 30	3-[31]
3-6	Groundwater Field Parameters, NAS Pensacola Site 30	3-[40]
3-7	Summary Analytical Screening Results for Groundwater Samples, NAS Pensacola Site 30	3-[42]

[Bold items enclosed in brackets denote changes to the last version of document]

LIST OF ILLUSTRATIONS

Figure		Page
1-1	Location Map--NAS Pensacola Site 30	1-2
1-2	Site Vicinity Map--NAS Pensacola Site 30	1-3
2-1	Survey Grid Map--NAS Pensacola Site 30	2-4
2-2	Surface Water and Sediment Sample Locations--NAS Pensacola Site 30	2-7
2-3	Soil Boring and Temporary Monitoring Well Locations--NAS Pensacola Site 30	2-10
3-1	Habitat/Biota Map--NAS Pensacola Site 30	3-S
3-2	Surface Emissions Survey Hap for the Creek and Paved Ditch [and Particulate Air Sampling Locations]--NAS Pensacola Site 30	3-8
3-3	Surface Emissions and Radiation Survey Map for the Wetland and Building Areas--NAS Pensacola Site 30	3-9
3-4	Metal Detector and EH-31 Survey Map--NAS Pensacola Site 30	3-11
3-5	[Surficial Zone] Water Level Elevations — NAS Pensacola Site 30	3-15
(3-6	Chromium, Lead, and Cadmium Concentrations in Sediment Samples--NAS Pensacola Site 30	3-26)
3-[7]	Total Metals and TRPH Concentrations in Sediment Samples--NAS Pensacola Site 30	3-[27]
3-[8]	PAH and Phenol Concentrations in Sediment Samples--NAS Pensacola Site 30	3-[29]
3-[9]	Total Metals [and Chromium] Concentrations in A-Interval Soil Samples--NAS Pensacola Site 30	3-[37]

[Bold items enclosed in brackets denote changes to the last version of document]

List of Illustrations (Cont.)

Figure | Page

3-[10] TRPH and Total PAR and Phenol Concentrations in A-Interval Soil Samples--NAS Pensacola Site 30 ..... 3-[38]

3-[11] Total Metals[, Chromium, and Cadmium] Concentrations in Shallow Groundwater--NAS Pensacola Site 30 ..... 3-[43]

[Bold **items** enclosed in brackets denote **changes** to the last version of document]

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RECORD OF DOCUMENT CHANGES

Revisions to this document were made based on comments received from the U.S. Environmental Protection Agency, Florida Department of Environmental Regulation, Florida Department of Natural Resources, and National Oceanic and Atmospheric Administration. All revisions are in bold and enclosed in brackets to denote changes to the last version of this document.

EXECUTIVE SUMMARY

As part of the U.S. Navy's Installation Restoration Program, Phase I of the Contamination Assessment/Remedial Activities Investigation was conducted for Buildings 649 and 755 (Site 30), located on the Naval Air Station in Pensacola, Florida. This work was performed by Ecology and Environment, Inc., under contract to the U.S. Navy, Southern Division, Naval Facilities Engineering Command.

Site 30 consists of two buildings (649 and 755), which were formerly metal-plating facilities, and an adjacent wetland area and associated creek and paved ditch. The objective of the Phase I investigation at Site 30 was to identify principal areas and primary contaminants of concern at the site and to provide recommendations for subsequent phases of investigation. The recommendations for additional work at Site 30 are presented under a separate cover. The Phase I tasks included aerial photograph and existing data analysis, site reconnaissance, habitat/biota survey, surface emissions survey and particulate air sampling, radiation survey, geophysical survey, utilities survey, the collection and analysis of surface water, sediment, soil, and groundwater samples, and a hydrologic assessment.

The results of this investigation indicate that surface water, sediment, soil, and groundwater contamination are present on and in the vicinity of Site 30. Metals, total recoverable petroleum hydrocarbons (TRPHs), volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and phenols are the primary contaminants. Some of the detected contamination is clearly associated with former metal-plating activities at buildings 649 and 755. Eowever, additional sources of contamination are apparently impacting Site 30. Site 11 is a

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former landfill located at the distal end of Site 30 where the creek enters Bayou Grande and is one potential contaminant source for Site 30. The results of the Site 11 investigation are presented in a separate report.

Two major areas of surface water (primarily metals) and sediment (metals, TRPHs, PAHs, and phenols) contamination appear to be present at Site 30. Surface vaters and sediments upstream of the creek/ditch confluence near buildings 649 and 755 have apparently been contaminated vith metals and/or VOCs from the former metal-plating activities in this area. Surface waters and sediments downstream of the confluence have apparently been contaminated vith metals, TRPHs, PAHs, and phenols by leachate migration from Site 11. Surface water metals concentrations at Site 30 exceed Florida standards.

Several areas of soil contamination appear to be present. A limited area of metals contamination appears associated vith the former metal-plating activities. In contrast, TRPH, PAH, and phenol contamination are videspread and could reflect multiple sources. In particular, very high levels of PAH and phenol contamination near Building 692 suggest a source .in this area.

Several areas of groundwater contamination are also present. Metals concentrations exceeding Florida standards were videspread, but this videspread occurrence could reflect the fact that the turbid groundwater samples were not filtered prior to acid preservation. Groundvater metals contamination, of a more limited extent, appears to have occurred as a result of the former metal-plating activities. 1,1,1-Trichloroethane contamination greatly exceeding the Florida standard vas detected near the northeast corner of Building 649. The source and extent of this contauinant plume are unknown. VOC, PAH, and phenol contamination greatly exceeding Florida standards vas detected southwest of Building 649-B. This contaminant plume, the extent of which is unknown, may be associated vith the area of soil contamination detected near Building 692.

Further assessment activities are required at and in the vicinity of Site 30.

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1. INTRODUCTION

This Interim Data Report presents the findings of the Phase I investigation activities performed for Buildings 649 and 755 (Site 30), located at the Naval Air Station (NAS) in Pensacola, Escambia County, Florida. This report has been prepared by Ecology and Environment, Inc., (E & E) for the Southern Division, U.S. Navy, Naval Facilities Engineering Command, under Contract No. N62467-88-C-0200. The information presented in this report is based on information and file documents provided by the Navy and on information gathered during the Phase I fieldwork conducted on the site from October 1990 to February 1991. The investigation was conducted in accordance with the administrative documents prepared by E & E for this project, which include the [June 1990] Project Management Plan, [June 1990] Site Management Plan, [July 1990] Generic Quality Assurance Project Plan (GQAPP), [July 1990] General Eealth and Safety Plan, and [June 1990] Contamination Assessment/Remedial Activities Investigation Work Plan--Group E with appended Site-Specific Eealth and Safety Plan and Site-Specific Quality Assurance Plan. [All references to these documents in this report apply only to 1990 versions.)

Site 30 consists of two buildings (649 and 755), which were formerly metal-plating facilities, and an adjacent wetland area. The site is located on the eastern portion of NAS Pensacola between Hurray Road and the golf course (see Figure 1-1). The wetland is a headwater of a small creek that discharges to a paved drainage ditch west of the Chevalier Field Complex. The ditch is paved with concrete and its main channel extends from near the intersections of Hoffit and Murray roads and discharges into an outlet to Bayou Grande, north of Chevalier Field (see Figure 1-2).

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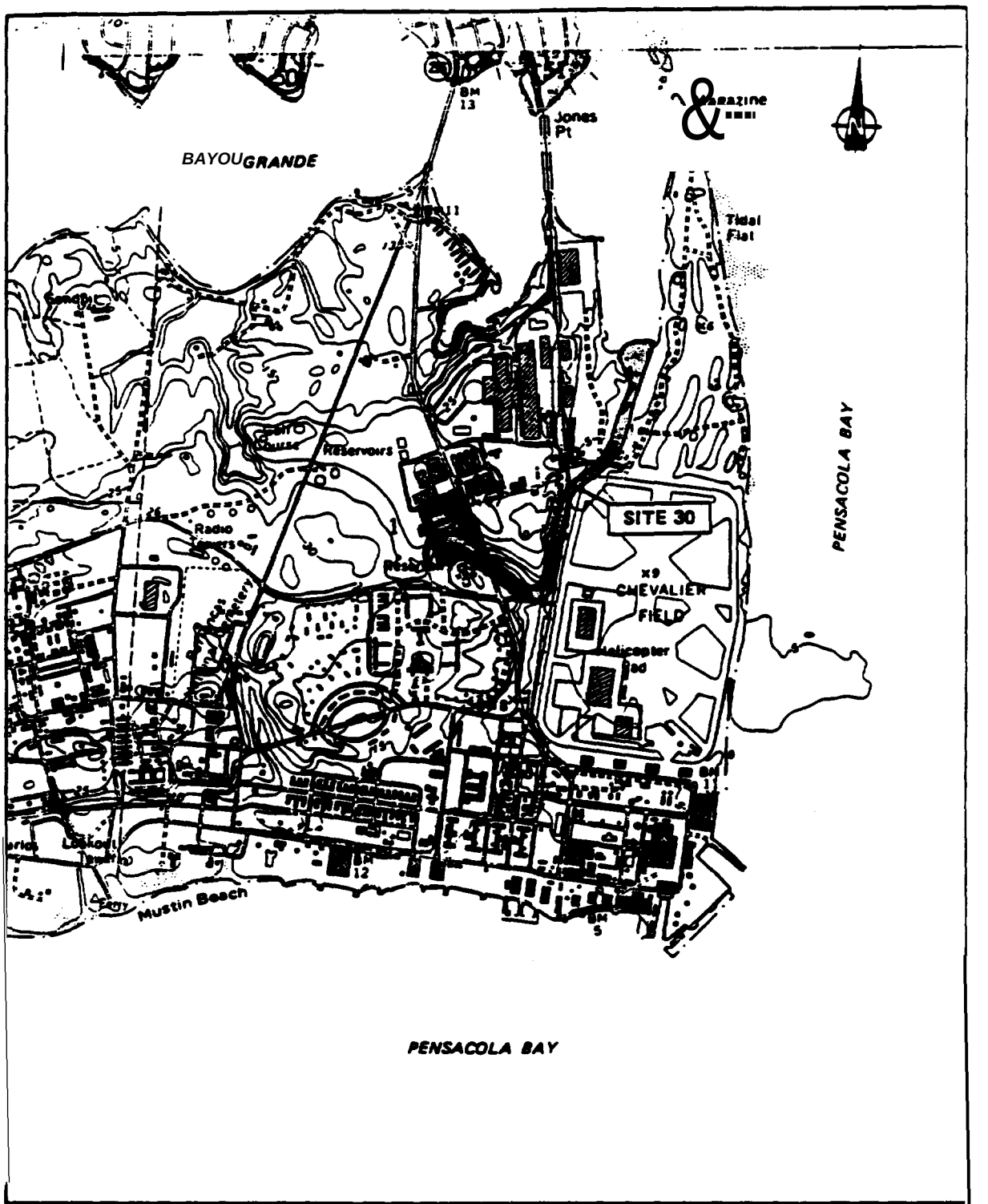

SOURCE: U.S.G.S. 7.5 Minute Series (Topographic) Quadrangles: Fort Barrancas, Fla. 1970 and West Pensacola, Fla. 1970, Photorevised 1987

SCALE

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Figure 1-1 LOCATION MAP —NAS PENSACOLA SITE 30

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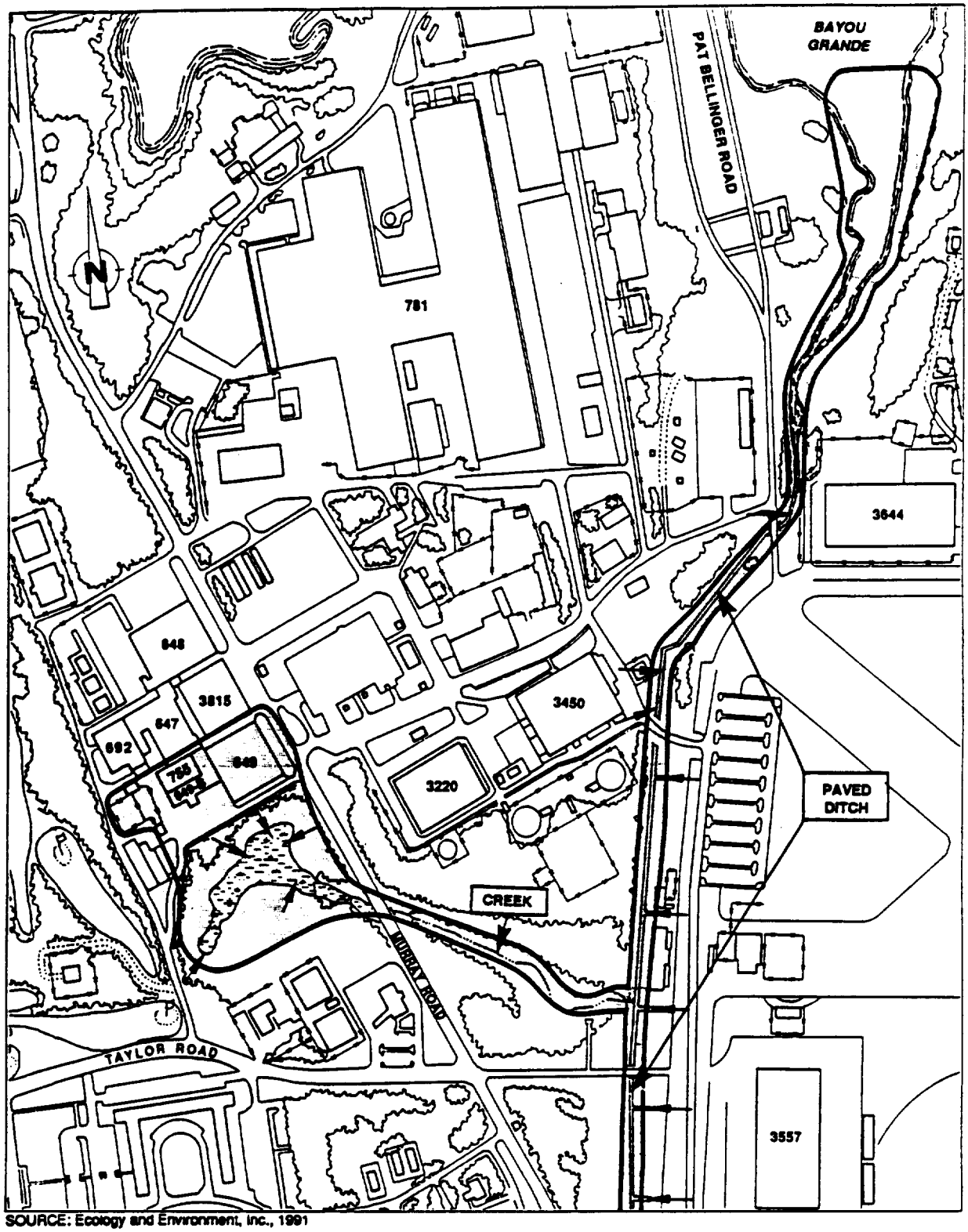

SOURCE: Ecology and Environment, Inc., 1991

SCALE
0 200 400 600 FEET

KEY:
Emergent Marsh
Outfall
Site Boundary

Figure 1-2 SITE VICINITY MAP — NAS PENSACOLA SITE 30

The purpose of the Phase I investigation vas to identify principal areas and primary contaminants of concern at the site and to provide recommendations for subsequent phases of investigation. The Phase I fieldvork included a site reconnaissance, habitat/biota survey, surface emissions survey and particulate air sampling, radiation survey, geophysical survey, utilities survey, and the collection and analysis of surface water, sediment, soil, and groundwater samples. In addition, a hydrologic assessment, which included the determination of groundwater and surface water elevations, groundwater flov direction and hydraulic gradient, and surface water flow rates, vas performed at the site. The recommendations for additional vork at this site *are* presented with this submittal under a separate cover.

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2. INVESTIGATION METHODOLOGY

2.1 AERIAL PHOTOGRAPH AND EXISTING DATA ANALYSIS

Prior to the initiation of fieldwork, E & E personnel examined all available aerial photographs of NAS Pensacola for past and present conditions, features, and developments that might have had direct relevance to the fieldwork methodology. The aerial photograph analysis task involved assembling and stereoscopically analyzing historical photographic imagery and topographic maps available for the site area. Photographs were scaled to allow analysis of past and present surface conditions, drainage, and land use. The aerial photographs used in the analysis are listed in Table 2-1. The photographs were analyzed to obtain information regarding the evolution of site features that might have affected hydrologic conditions and to aid in the performance of such tasks as field reconnaissance and monitoring well placement.

2.2 SITE RECONNAISSANCE

A field reconnaissance survey was conducted on and around Site 30. Available aerial photographs and maps were used as guides in locating surface features. Visual inspections were made of surface conditions, stressed vegetation, surface drainage patterns, and outfalls leading into the creek and the paved ditch. These observations of surface conditions on the site were used to update the site map.

The reconnaissance survey team utilized radiation and air monitoring equipment during walkovers of site areas, in accordance with sections 6.1.1 and 6.3.2 of the GOAPP. Areas where "hot spots" were located were flagged and identified on a site map for future reference. All findings of the physical reconnaissance were mapped in detail and recorded in the field logbook.

Table 2-1

PHOTOGRAPHS AND MAPS USED IN THE AERIAL PHOTOGRAPH ANALYSIS
NAS PENSACOLA SITE 30

Source	Photograph/Map Number	Date	Scale
NAS Pensacola Public Works Department	1276833	2/5/90	1:2,400
	1276835	2/5/90	1:2,400
	1276836	5/22/06	1:2,400
	1276912	9/29/86	1:2,400
Florida Department of Transportation	PD-3886-12-03	10/26/89	1:24,000
	PD-3886-12-04	10/26/89	1:24,000
	PD-3618-12-03	11/21/09	1:24,001
	PD-3618-12-04	11/21/89	1:24,000
	PD-3109-12-03	9/22/03	1:24,000
	PD-3109-12-04	9/22/83	1:24,000
	PD-2684-12B-04	3/9/01	1:24,000
	PD-2684-12B-05	3/9/01	1:24,000
	PD-1888-11-03	4/28/76	1:24,000
	PD-1888-11-04	4/28/76	1:24,000
	PD-1331-11-03	9/4/73	1:24,000
	PD-1331-11-04	5/4/73	1:24,000
	PD-868-5-08	4/6/70	1:24,000
	PD-868-4-09	4/6/70	1:24,000
	PD-616-8-04	3/25/68	1:24,000
	PD-616-8-05	3/25/68	1:24,000
	PD-285-8-03	10/8/64	1:12,000
	PD-285-7-03	10/8/64	1:12,000
	PMS-7054-2-1	10/12/61	1:24,000
	PMS-7054-3-1	10/12/61	1:24,000
U.S. Department of Agriculture	CPF-4H-17	1/22/51	1:24,000
	01-19-78	1/3/58	1:24,000
West Florida Regional Planning Council	PD-3618-12-05	11/21/06	1:4,800

14[NASP]UH6057:T0235/287/23

Source: Ecology and Environment, Inc., 1991.

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2.3 HABITAT/BIOTA SURVEY

A habitat/biota survey was conducted for the site, as well as an evaluation of applicable literature pertaining to NAS Pensacola. During the physical reconnaissance, an E & E biologist/ecologist determined the on-site terrestrial and aquatic habitats and the surrounding habitats that could be affected by off-site contaminant migration. During the walkover survey, rare, threatened, and endangered species and their potential habitats were identified, and general site conditions were evaluated regarding the site's ability to support viable populations of plants and animals.

2.4 ENu/OVA SURFACE EMISSIONS SURVEY AND PARTICULATE AIR SAMPLING

A surface emissions survey was conducted using an organic vapor analyzer (OVA). The survey was conducted in accordance with Section 6.1.1 of the GCJAPP. Due to the denseness of the vegetation and unstable nature of the terrain around the marsh and surrounding forested area (see Figure 2-1), the surface emissions survey could not be conducted according to a pre-established grid. Instead, a walkover survey was conducted, and readings were mapped accordingly. After the survey was completed, a grid was laid over the survey map to establish locational coordinates for the data points (see Figure 2-1). Grid coordinates were assigned as (x,y), with "x" being the coordinate east of the origin and "y" being the coordinate north of the origin. Measurements were made in and around the vegetated area, as well as in and around buildings 755, *649,* and *649-B,* which is an annex attached to the west side of Building *649.* Readings were recorded in the field logbook. Inside the buildings, E & E personnel conducted an emissions survey around the solvent tanks and throughout the mechanical process areas. In addition, preliminary air screening was conducted with a particulate monitor to determine if the site represents a source of particulates in the air. The air sampling was conducted in accordance with Section 6.1.[1] of the GQAPP.

2.5 RADIATION SURVEY

Although the Site 30 work plan did not specify that a formal radiation survey be conducted at the site, a Bicron Micro-8-meter was

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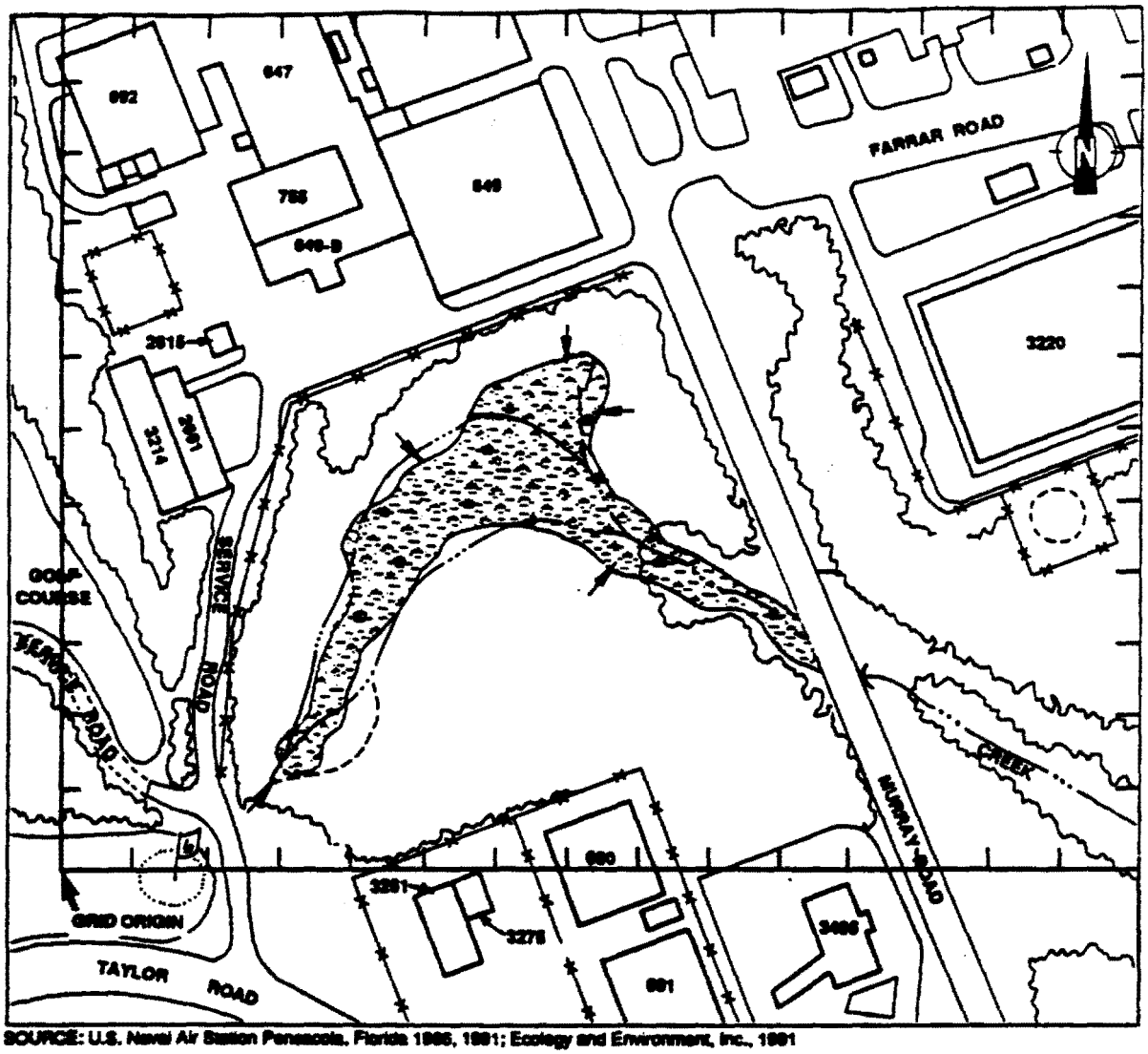

SOURCE: U.S. Naval Air Station Pensacola, Florida 1986, 1991; Ecology and Environment, Inc., 1991

SCALE

0 200 400 FEET

KEY:

- Emergent Marsh
- Survey Grid Boundary
- Outfall
- Creek
- Intermittent Creek

Figure 2-1 SURVEY GRID MAP —NAS **PENSACOLA SITE 30**

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used during a walkover survey at the site to monitor for radiation. This informal radiation survey was conducted due to the proximity of Site 30 to the Group G radiation sites. The survey was conducted in accordance with Section 6.3.[6] of the GQAPP. Again, due to the denseness of the vegetation and unstable nature of the terrain around the marsh and forested area, the survey was not conducted according to a pre-established grid. All readings were recorded in the field logbook.

2.6 GEOPHYSICAL SURVEY

An electromagnetic terrain conductivity survey and an electromagnetic metal detection survey were conducted at Site 30 and the surrounding areas. The electromagnetic survey was conducted using a Geonics, Ltd., instrument, and the metal detection survey was conducted using a standard, portable metal detector/pipe locator with a maximum depth of exploration approximately 8 feet below land surface (BLS). (The electromagnetic survey will be discussed in this report as the EM-31 survey.)

A walkover geophysical survey was conducted in the marsh and surrounding forested area and in the paved area near the buildings. The readings were recorded on a survey map. The grid used for the surface emissions survey was laid over the geophysical survey map to establish locational coordinates for the geophysical data (see Figure 2-1).

The geophysical survey was performed in accordance with field methodologies and data interpretation techniques discussed in Section 6.2.1 of the GQAPP, except that during the performance of the EM-31 survey, only readings parallel to the survey grid traverses were taken in the vertical coplanar or deep mode. The effective exploration depth of the EM-31 is approximately 3 meters (9.8 feet) in the horizontal coplanar mode and approximately 6 meters (19.7 feet) in the vertical coplanar mode.

2.7 UTILITIES SURVEY

Prior to conducting any augering, boring, or drilling, E & E located all underground cables, pipes, utilities, and other subsurface features that had the potential to be damaged, create a safety hazard,

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or othervise hinder fieldvork. The appropriate authorities (e.g., NAS Pensacola Public Works and Southern Bell) were contacted to identify the location of all underground utilities in the site area. In addition, E 6 E examined available maps and documents and conducted a metal detector survey to determine the presence of any other potentially hazardous subsurface features on site. The locations of all underground utilities and other obstructing features were marked vith surveyor flags, fluorescent paint, or by other methods, as appropriate.

2.0 DATA ANALYSIS

Information obtained from the results of the above-described physical surveys was given primary consideration in the development of placement strategies for the Phase I temporary monitoring vells, soil brings, surface vater samples, and sediment samples. Prior to establishing the Phase I temporary monitoring well locations or other sampling points, the results of the aerial photograph analysis, site reconnaissance, surface emissions survey and particulate air sampling, radiation survey, geophysical survey, and utilities survey vera evaluated to identify areas of potential surface or subsurface contamination and areas of stressed vegetation at the site. The Phase I temporary monitoring well locations and other sampling points, shown on Figure 14-1 of the work plan, were then revised as appropriate upon approval by Southern Division.

2.9 SURFACE WATER SAMPLING

A total of 12 surface vater samples, plus one duplicate sample, were collected during the Phase I investigation: two from the marsh area, two from the creek, six from the paved ditch, and two from the creek and Bayou Grande east of Pat Bellinger Road (see Figure 2-2). When necessary, a small boat vas wed to access desired sampling locations. Whenever possible, all surface water samples vere collected from within 1 foot of the bottom of the water body at the sampling location. All sampling and equipment decontamination activities vere conducted in accordance with sections 6.9.1 and 6.10 of the GQAPP. All surface vater samples vere shipped to E 6 E's Analytical Services Center

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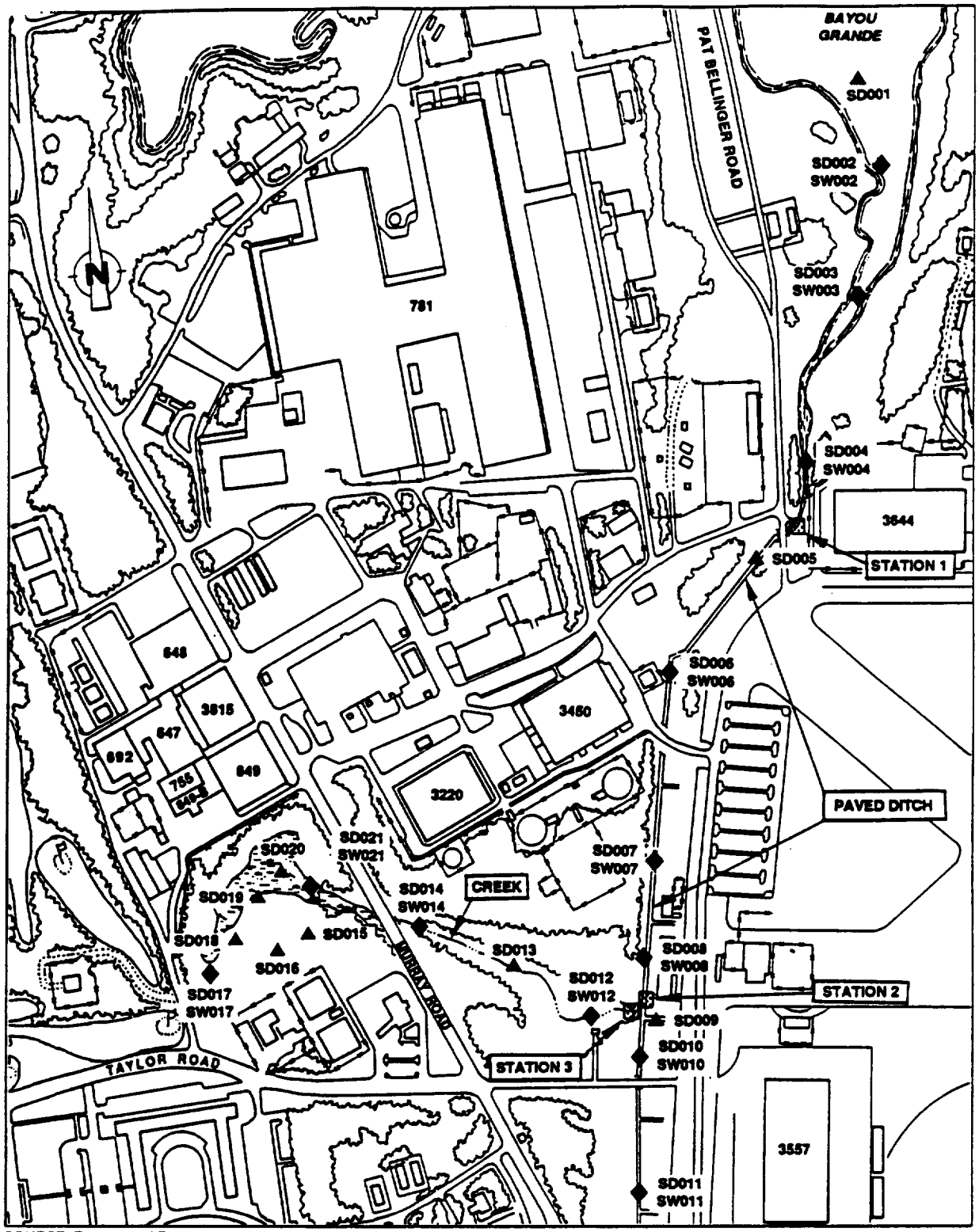

SOURCE: Ecology and Environment, Inc., 1991

SCALE
0 200 400 800 FEET

KEY:

▲ Sediment Sample Location

◆ Surface Water and Sediment Sample Location

⊠ Stream Flow Station

SD002 Sediment Sample 002

SW002 Surface Water Sample 002

Figure 2-2 SURFACE WATER AND SEDIMENT SAMPLE LOCATIONS — NAS PENSACOLA SITE 30

(ASC) in Buffalo, New York, and analyzed for the screening parameters listed in Table 2-2.

2.10 SEDIMENT SAMPLING

A total of 21 sediment samples, plus one duplicate sample, vere collected during the Phase I investigation: seven from the marsh and surrounding forested area, three from the creek, seven from the paved ditch, and four from the creek and Bayou Grande east of Pat Bellinger Road (see Figure 2-2). At each location, the sediment sample vas collected from the sediment surface to a depth of approximately 4 inches. In areas where the vater depth vas greater than 8 inches, the samples were retrieved using either a stainless-steel sediment corer or a bucket-type mud auger; in areas where the vater depth vas less than 8 inches, a stainless-steel trowel vas used. Sediment samples collected in the marsh and surrounding forested area vere usually not submerged under vater and hence were collected as surface soil samples. Two or three aliquots obtained vithin a 50-foot-diameter area vere composited to yield one sediment sample. Each aliquot vas collected from a depth interval of 0 to 6 inches BLS. The composition of sediment materials retrieved during sampling was recorded in the field logbook. All sediment sampling and equipment decontamination activities vere conducted in accordance vith sections 6.9.2 and 6.10 of the GQAPP. All sediment samples vere shipped to E & E's ASC and analyzed for the screening parameters listed in Table 2-2.

2.11 SOIL BORINGS AND TEMPORARY MONITORING WELL INSTALLATION

A total of 11 soil borings were corpleted at Site 30 (see Figure 2-3). At each boring location, samples vere collected by compositing soils over 5-foot depth intervals from land surface to the vater table. Each 5-foot depth interval vas assigned a letter designation as follows: A interval = surface to S feet BLS; B interval = 5 to 10 feet BLS; C interval = 10 to 15 feet BLS; and so on to the vater table. Samples were collected using either hand-operated bucket augers or a solid-stem auger povered by a drill rig. Boring depths ranged from 5 to 30 feet BLS. Lithologic characteristics of the materials encountered in each borehole vere recorded in the field logbook. All sampling, compositing,

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Table 2-2

SAMPLING AND ANALYTICAL SUMMARY
NAS PENSACOLA SITE 30

Medium	NO. of Samples	Duplicates	Total	Analytical Suite[a,b]
Surface Water	12	1	13	A
Sediment	21	1	22	A
Soil	22	1	23	A
Groundwater	5	1	6	A

[NASP]UH6057:T0235/286/10

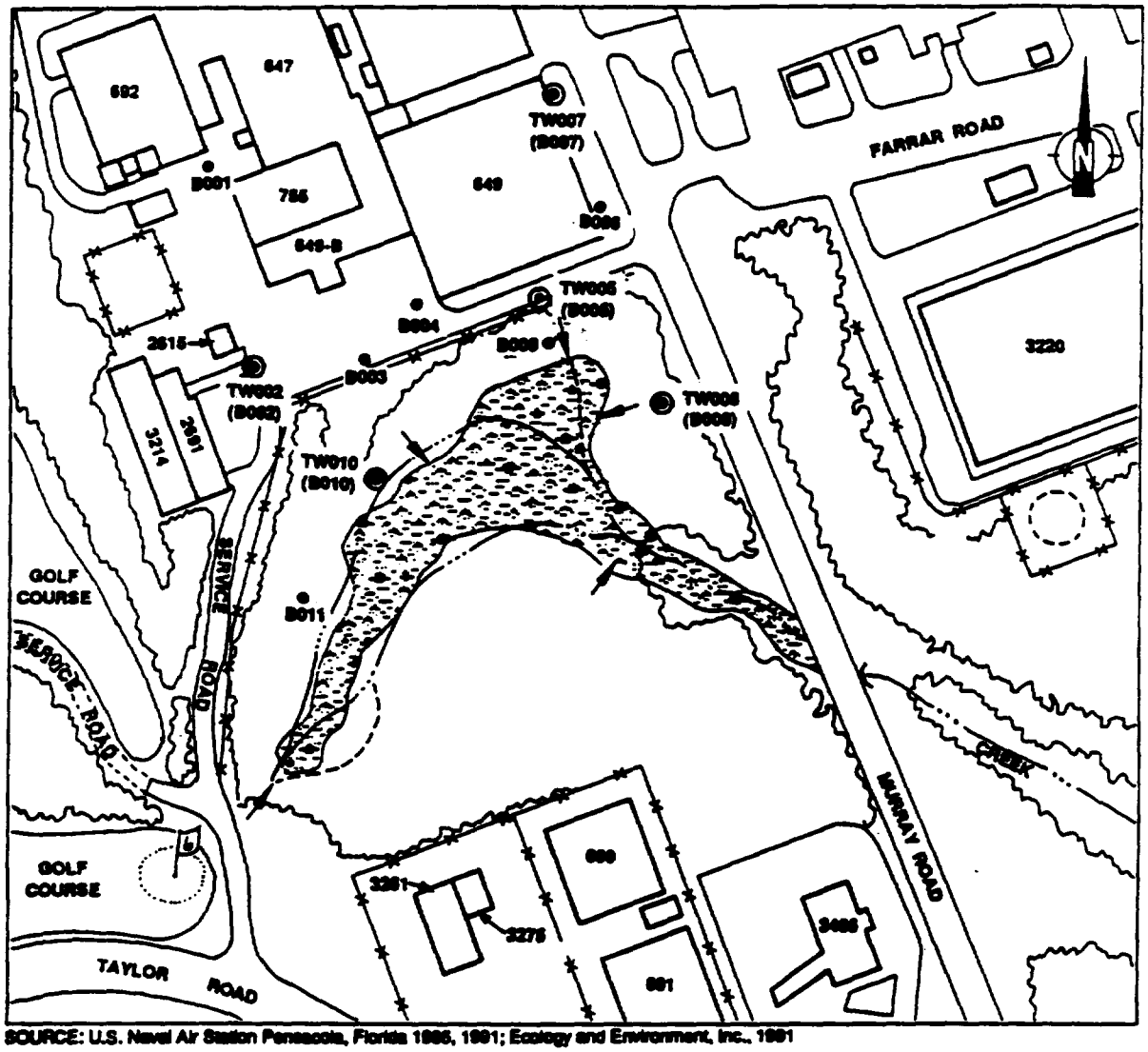
Key:

[a]Analytical suite designation is as follow.:

A = Volatile organic compounds, polynuclear aromatic hydrocarbonr, phenols, pesticides and total PCBs, total recoverable hydrocarbonr, and metals (total, unfiltered).

[b]Specific constituents encompassed by tho various chemical groups included within analytical suite A are identified in tables 9-1 through 9-4 of tho GQAPP.

Source: Ecology and Environment, Inc., 1991.



SOURCE: U.S. Naval Air Station Pensacola, Florida 1986, 1991; Ecology and Environment, Inc., 1991

SCALE

0 200 400 FEET

KEY:

- Emergent Marsh
- Soil Boring
- Temporary Monitoring Well
- Outfall
- TW005 Temporary Well 005
- B005 Boring 005

Figure 2-3 SOIL BORING AND TEMPORARY MONITORING WELL LOCATIONS — **NAS PENSACOLA SITE 30**

3000355

and lithologic logging activities were performed in accordance with Section 6.6 of the GQAPP. Equipment decontamination was performed in accordance with Section 6.10 of the GQAPP.

Temporary stainless-steel monitoring wells were installed in five of the above borings (see Figure 2-3). Each well was constructed with 5 feet of 0.01-inch slotted screen and installed to a depth that allowed the well screen to bracket the water table. All equipment decontamination activities were performed in accordance with Section 6.10 of the GQAPP.

2.12 GROUNDWATER SAMPLING

A total of five groundwater samples, plus one duplicate sample, were collected from the five temporary monitoring wells shown in Figure 2-3. Weather conditions; water levels; purge volumes; and groundwater pH, specific conductance, and temperature measurements were recorded in the field logbook prior to sampling. In addition, prior to purging, each well was checked for the presence of floating and/or sinking immiscible hydrocarbons using an MMC International oil-water probe. Each groundwater sample was collected immediately following well purging. All well purging and sampling activities were performed in accordance with sections 6.8 and 6.11 of the GQAPP. Equipment decontamination was performed in accordance with Section 6.10 of the GQAPP. All of the groundwater samples collected from the temporary monitoring wells were shipped to E & E's ASC and analyzed for the screening parameters listed in Table 2-2.

2.13 HYDROLOGIC ASSESSMENT

The hydrologic assessment of Site 30 and surrounding areas included determination of water level elevations in the five temporary monitoring wells; surface water elevations in the creek, paved ditch, and marsh; and stream flow discharge rates in the creek and paved ditch.

Uellhead top-of-casing (TOC) elevations for the temporary monitoring wells were measured relative to the top of a driven reference stake located adjacent to each well using a spirit level and tape measure. Static groundwater levels were measured relative to the wellhead TOC over a two-day period. Following groundwater sampling and removal of

the temporary monitoring vells, the elevations of the driven reference stakes vere surveyed using a transit vith reference to U.S. Geological Survey (USGS) Benchmark No. N26.

In conjunction vith the wellhead survey, the surface water elevations of the creek, paved ditch, and marsh vere also established. Staff gauges vere placed in the creek and paved ditch and monitored over the course of the field investigation. Staff Gauge 1 vas placed in the paved ditch just east of the intersection of the creek and the ditch. Staff Gauge 2 vas placed in the creek east of Pat Bellinger Road. In addition, a rain gauge station vas installed in the paved ditch near the intersection of the creek and the ditch to monitor precipitation during fieldwork activities.

Stream flow measurements were performed at tvo locations in the creek and one in the paved ditch to calculate stream flav discharge rates (see Figure 2-2). Each stream flov station had an approximately constant stream profile (vidth and depth) that occurred along a measured portion of stream length. To determine the stream flov velocity, a floating device vas placed at the upstream end of the station, and the total time (in seconds) to traverse the measured portion of stream length vas recorded. To calculate the stream flw discharge rate, the cross-sectional area of the stream profile (vidth x depth) vas multiplied by the stream flav velocity.

2.14 FIELD QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

All field tasks performed during the investigation vere documented in the field logbooks according to the procedures specified in Section 7.2 of the GQAPP.

2.14.1 Field QA/QC Samples

Field QA/QC samples were prepared for all samples collected at Site 30 during the Phase I investigation according to the procedures described in Section 6.12 of the GQAPP. Chain-of-custody vas maintained for all samples collected, packaged, and shipped to E & E's ASC for analysis. Sample management vas performed as specified in Section 7 of

3000356

the GQAPP. The collected field QA/QC samples and corresponding analytical parameters are listed in Table 2-2.

2.14.2 Decontamination Procedures

All equipment used during field activities was decontaminated in accordance with Section 6.10 of the GQAPP.

2.15 INVESTIGATION-DERIVED WASTE MANAGEMENT

Excess soil material generated during soil boring and temporary monitoring well installation activities was temporarily contained adjacent to the well or boring and then backfilled into the borehole after the auger flights or temporary well casings had been removed following sample collection. Any soil material remaining after completion of borehole backfilling was placed in 55-gallon drums, sealed, labeled, and moved to a central area on the site. Each drum has a painted-on label listing the site number and the type of material contained in the drum.

All water generated during development and purging of the temporary monitoring wells was temporarily contained adjacent to the well and then poured back into the well following collection of samples.

Potentially contaminated clothing and disposable materials, wastes generated during decontamination activities, and other potentially contaminated, investigation-derived materials were placed in 55-gallon drums, labeled, and moved to a central area on the site. The drums are sealed and labeled "trash." All drummed investigation-derived materials were subsequently picked up and disposed of by NAS Pensacola.

3. RESULTS

3.1 AERIAL PHOTOGRAPH AND EXISTING DATA ANALYSIS

Review of the January 22, 1951, aerial photographs indicated that the site appeared then much as it appears at present. Structures existed in the present locations of buildings 649 and 649-B; however, Building 755 did not appear to have been constructed. The marsh area south of Building 649 appeared to be covered with low-lying vegetation near several streams. Two of these streams appeared to discharge into the wetland area from the southwest. Thick trees were noted in and around the wetland area. Surface drainage from the marsh appeared to be directed toward the east into a creek that discharged to the drainage ditch along Chevalier Field. No obvious visual evidence of stressed vegetation or areas of staining were noted.

Review of the October 12, 1961, aerial photograph indicated that Building 755 had been constructed. Small structures that might be automobiles, drums, or small tanks appeared on the paved area around the buildings.

The March 25, 1968, aerial photograph indicates a darkened area was present immediately south of Building 649 near the southwestern end of the building. This was a well-defined area and does not appear to be the result of spilling or dumping of wastes but may be a paved or grassy area. This darkened area remained on the subsequent photographs. The trees around the vegetated area located south of Building 649 appeared to be more abundant in the late 60s and early 70s.

Reviev of the March 9, 1981, aerial photograph showed the creek to be wider than in the previous photographs. No obvious visual changes were noted.

No obvious changes in site features were noted in subsequent aerial photographs until 1989. Small objects were noted on the paved area near

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buildings 649 and 755 in the October 26, 1989, aerial photograph. These objects vere smaller than the ones noted in the October 12, 1961, photograph and appeared to be drums.

No potential sources of contamination vere noted in any of the available aerial photographs of Site 30.

32 SITE RECONNAISSANCE

During the site reconnaissance, visual inspections were made in and around Buildings 649 and 755, in and around the marsh and surrounding forested area, and along the banks of the creek and paved ditch. One objective of the reconnaissance was to identify the locations of any outfalls to the marsh, creek, and paved ditch in the site area. A total of 13 pipes and culverts that appeared to be outfalls vere located in the site area (see Figure 1-2). One culvert, located in the south-western portion of the wetland area, appeared to be a stormwater outfall and was discharging a small volume of water into the creek. This outfall is noted as a storm drainage outfall on the 1989 Storm Drainage System General Development Map prepared by the Naval Facilities Engineering Command (U.S. Navy 1986). No odors vere detected from the soil or water near this pipe.

As illustrated on Figure 1-2, three outfalls were observed just south of Building 649 in the northern portion of the marsh. The center outfall is a polyvinyl chloride (PVC) pipe that vas observed discharging water into the marsh at a rate of approximately 30 gallons per minute (gpm). The water discharging from this pipe is believed to be potable water vved for the cooling system in Building 649. Vatcr was observed flowing from this pipe only during the site reconnaissance. The outfalls on either side of the PVC pipe vere tw cement culverts. The vesternmost culvert vas submerged in the creek along the northern marsh boundary but did not appear to be discharging water. No water was observed discharging from the easternmost culvert.

Another pipe was noted near the east/central portion of the marsh area. This metal pipe was submerged and appeared to be discharging water into the creek at a rate of about 50 gpm. The vater near this outfall had a slight chlorine odor. The source of water emanating from this pipe is unknown.

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Three additional outfalls, other than the culverts from Chevalier Field, were observed in the paved ditch. However, no water appeared to be flowing from these pipes during the site reconnaissance.

Several [manholes for the industrial sever system] were observed throughout the marsh and surrounding forested area and along the creek east of Murray Road. No obvious leaks or spills were noted around these manholes.

The small creeks running through the marsh and surrounding forested area are shallow (generally less than 6 inches deep) and mostly clear and odorless with light-colored, sandy bottoms. The creek bottom in the southwestern portion of the marsh near the stormwater outfall consists mostly of dark to medium brown silty sand. The creek east of Hurray Road becomes somewhat deeper (as deep as 2 feet near Murray Road), and the bottom is mostly sandy. Further east, the creek becomes shallower and overgrown with vegetation.

The vatcr appeared slightly darker in the paved ditch that runs along Chevalier Field and was observed to have an oily sheen in several places along the ditch. An oil-boom was noted in the ditch just before the point where the water flows under Pat Bellinger Road; a thick, oily sheen was noted on the water trapped by this boom. East of Pat Bellinger Road, the creek flows northward into Bayou Grande, and a slightly oily sheen vas noted on the water in various places leading into the bayou.

During rain storms, surface water runoff was observed flowing west off Chevalier Field into the paved ditch. The water from Chevalier Field was often observed to exhibit an oily sheen, which was probably due to aviation fuel spillage from helicopters and other aircraft.

An HNu air monitoring device was used to monitor ambient air during the site reconnaissance. Readings up to 40 parts per million (ppm) above background levels were detected along the ditch where oily sheens were noted.

3.3 HABITAT/BIOTA SURVEY

The habitat/biota survey for Site 30 focused on the vegetated area southeast of buildings 649 and 755 and the areas around the creek and drainage ditch that convey surface water from the site to Bayou Grande.

Three different habitats vere identified: emergent marsh, forested vetland, and mixed hardvood and pine. The emergent marsh area is shovn on Figure 3-1. However, the exact boundary between the forested vetland and mixed hardvood and pine areas vas not delineated during the survey; therefore, these areas are not shown on the map.

Water enters the marsh area of the site via precipitation runoff, possible groundwater discharge, an outfall discharge possibly from Building 649, stormwater discharge from an outfall in the southwestern portion of the site, and discharge from a steel pipe of unknown origin that terminates just west of Hurray Road. The vegetation surrounding the outfall near Building *649* appeared bleached and vilted; however, a preliminary pH measurement of the discharge vas 7 (neutral). The discharges from these various sources converge in the center of the vegetated area where ground surface elevations are lowest. This central area experiences the longest hydroperiods (flooding duration) and consequently is the location of the emergent marsh habitat. The dominant plant species in the emergent marsh include cattail (Typha latifolia), tickseed (Bidens mitis), lizard's tail (Saururus cernuus), vater pennyvort (Bydrocotyle wbellata), and climbing hempvine (Mikania scandens), vith scattered black villov (Salix nigra) and svamp tupelo (Nyssa biflora). The channel downstream of the stormwater outfall contained numerous individuals of Carolina lilaeopsis (Lilaeopsis carolinensis), a candidate for federal listing as an endangered or threatened species *(see* Figure 3-1.) Oligochaete tubes vere observed in core samples taken near this area, and an oily sheen was observed on the surface of the vater after the sediments had been disturbed. Sediments consist of sand overlying organic detritus. Metal flakes vere observed in the detritus. Numerous minnows vere present, and the habitat appeared suitable for insect larvae.

The forested wetland occurs at slightly higher elevations bordering the perimeter of the emergent marsh. The overstory consists of a mixture of hardwoods, including black villov, svamp tupelo, svamp bay (Persea palustris), sweetgum (Liquidambar styraciflua), and popcorn tree (Sapium sebiferum). The understory species include vax myrtle (Myrica cerifera), groundsel tree (Baccharis halimifolia), cabbage palm (Sabal palmetto), and red maple (Acer rubrum). Ground cover species include

[Bold items enclosed in brackets denote changes to the last version of document]

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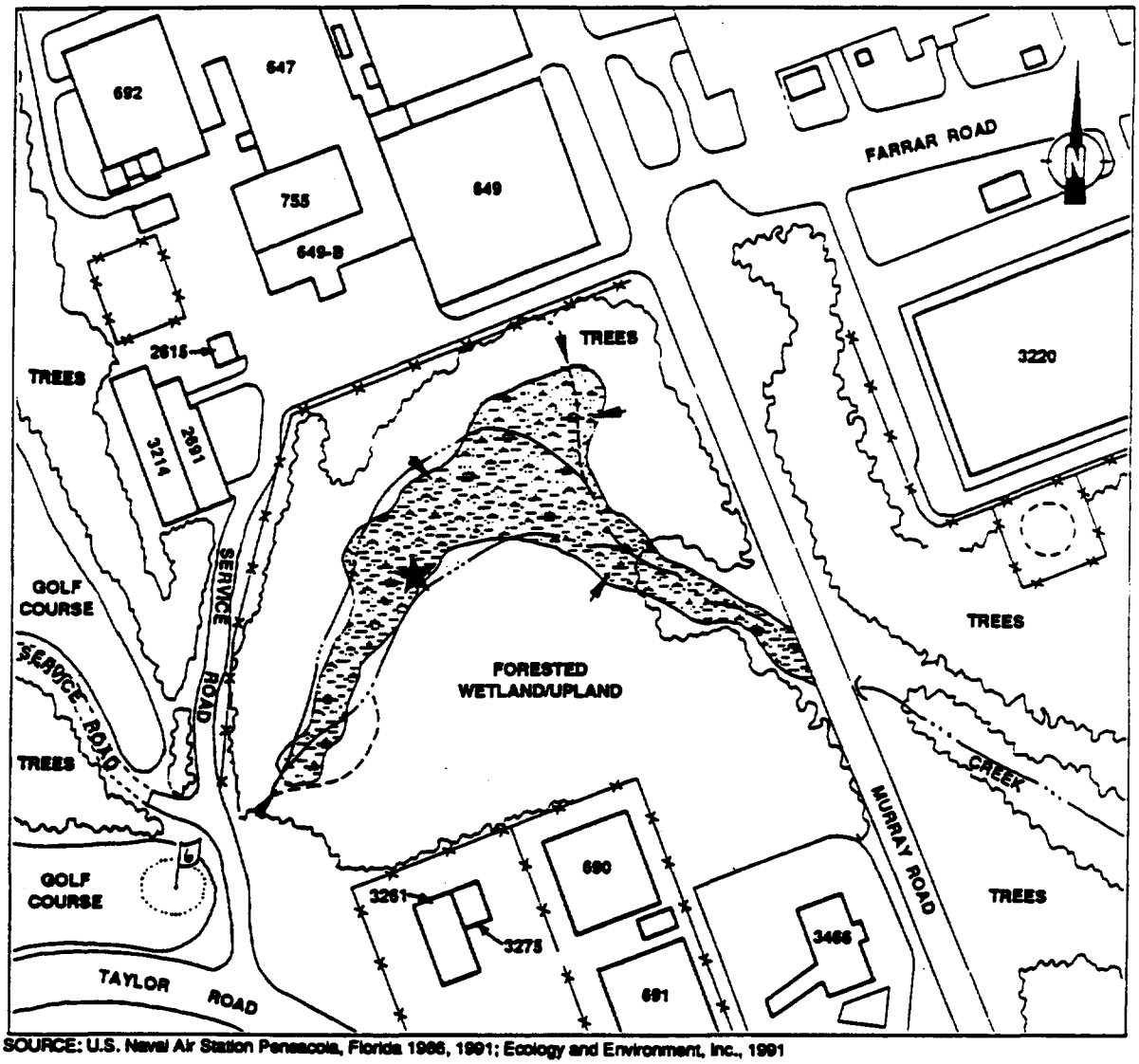

SOURCE: U.S. Naval Air Station Pensacola, Florida 1986, 1991; Ecology and Environment, Inc., 1991

SCALE

0 200 400 FEET

KEY:

- Emergent Marsh
- Location of Carolina Liasopsis (Liasopsis carolinensis)
- Outfall
- Creek
- Intermittent Creek

Figure 3-1 HABITAT/BIOTA MAP — NAS PENSACOLA SITE 30

bog hemp (Boehmeria cylindrica), lizard's tail, cinnamon fern (Osmunda cinnamomea), royal fern (Osmunda regalis), netted chain fern (Uoodvardia areolata), water hoarhound (Lycopus rubellus), and soft rush (Juncus coriaceus). Several villov, sweetgum, and wax myrtle trees had been felled recently by beavers.

The area on the upslope side of the forested vetland supports a mixed hardwood and pine forest. The overstory is dominated by live oak (Quercus virginiana) and laurel oak (Quercus hemisphaerica), along vith southern magnolia (Magnolia grandiflora) and slash pine (Pinus elliottii). The understory is sparsely vegetated; mimosa (Albizia julibrissin) is the dominant species. The ground cover is dominated by muscadine (Vitis rotundifolia), yaupon (Ilex vomitoria), and live oak seedlings.

Surface water flows from the vetland via a culvert to a creek on the east side of Hurray Road. Water flov in the creek is toward the southeast. For most of its length, the creek is fairly steep-sided and densely vegetated. Cattail, American cupscale (Sacciolepis strata), arrowhead (Saggittaria monterdensis), and climbing hempvine are the dominant plant species. At its eastern end, the creek intersects a drainage ditch (the paved ditch), and surface water flov continues northward into Bayou Grande.

The banks of the drainage ditch have been paved vith concrete in several places. The bottom of the ditch consists of sand vith organic deposits accumulating in pools and sluggish water areas. Cores taken at the southern portion of the drainage ditch revealed numerous oligochaetes. Salinity is believed to be higher in the northern portion of the drainage ditch because polychaete tubes, amphipod tubes, blue crabs, and Fundulus sp. were observed at this location. Seining revealed that darters (Etheostoma sp.) and mollies (Poecilia sp.) are also quite abundant. Vegetation vithin the ditch consists of primarily smartveeds (Polygonum sp.), climbing hempvine, torpedo'grws (Panicum repens), and frogs-bit (Limnobium spongia).

Typical biota of these vetland habitats include frogs, toads, lizards, turtles, snakes, beaver, raccoons, and other small mammals that may use the site and adjacent habitats for feeding, nesting, or as a travel corridor. Many species of birds, including yellow-bellied

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sapsucker, marsh wren, northern flicker, cardinal, and wood thrush, utilize the wooded habitat associated with the site (see Appendix A).

3.4 SURFACE EMISSIONS SURVEY AND PARTICULATE AIR SAMPLING

An OVA was used to monitor surface emissions in and around buildings 649 and 755, in the marsh and surrounding forested area, and along the creek and ditch. [OVA readings observed ranged from 0 to 100 ppm.] Figures 3-2 and 3-3 show areas of elevated surface emissions readings. Appendix B presents the grid coordinates and surface emissions survey readings for each grid point. Background readings were recorded in the field logbooks.

Because solvents are currently used inside the buildings, the ambient (or background) organic concentrations were slightly elevated inside the buildings, and solvent vapors could also be detected with the OVA outside the buildings. The areas of elevated OVA readings directly around Building 649 (as shown in Figure 3-3) are probably attributable to vapors emanating from inside the building.

In addition, elevated readings were recorded in the marsh and surrounding forested area. The soft, dark, muddy area along the northern edge of the marsh exhibited OVA readings as high as 40 ppm above background. A charcoal filter was used to filter out all organic vapors except methane, which is a natural gas produced by the decomposition of organic material and is often abundant in forested wetland environments. After injecting the 40 ppm air sample through the charcoal filter, only 2.5 ppm methane was detected. This indicates the existence of organic vapors other than methane.

A reading of 100 ppm above background (25 ppm methane) was detected along the muddy surface in the southwestern portion of the site near the stormwater outfall (see Figure 3-3). Readings of 19 and 20 ppm above background were also recorded in this area.

A slightly elevated reading of 20 ppm methane was recorded in the creek just east of Hurray Road (see Figure 3-2). Along the paved ditch, readings of less than 10 ppm above background were observed in several areas. A reading of 25 ppm above background was recorded in the ditch just west of Pat Bellinger Road where a thick, oily sheen was observed. This and other above-mentioned slightly elevated readings in the ditch

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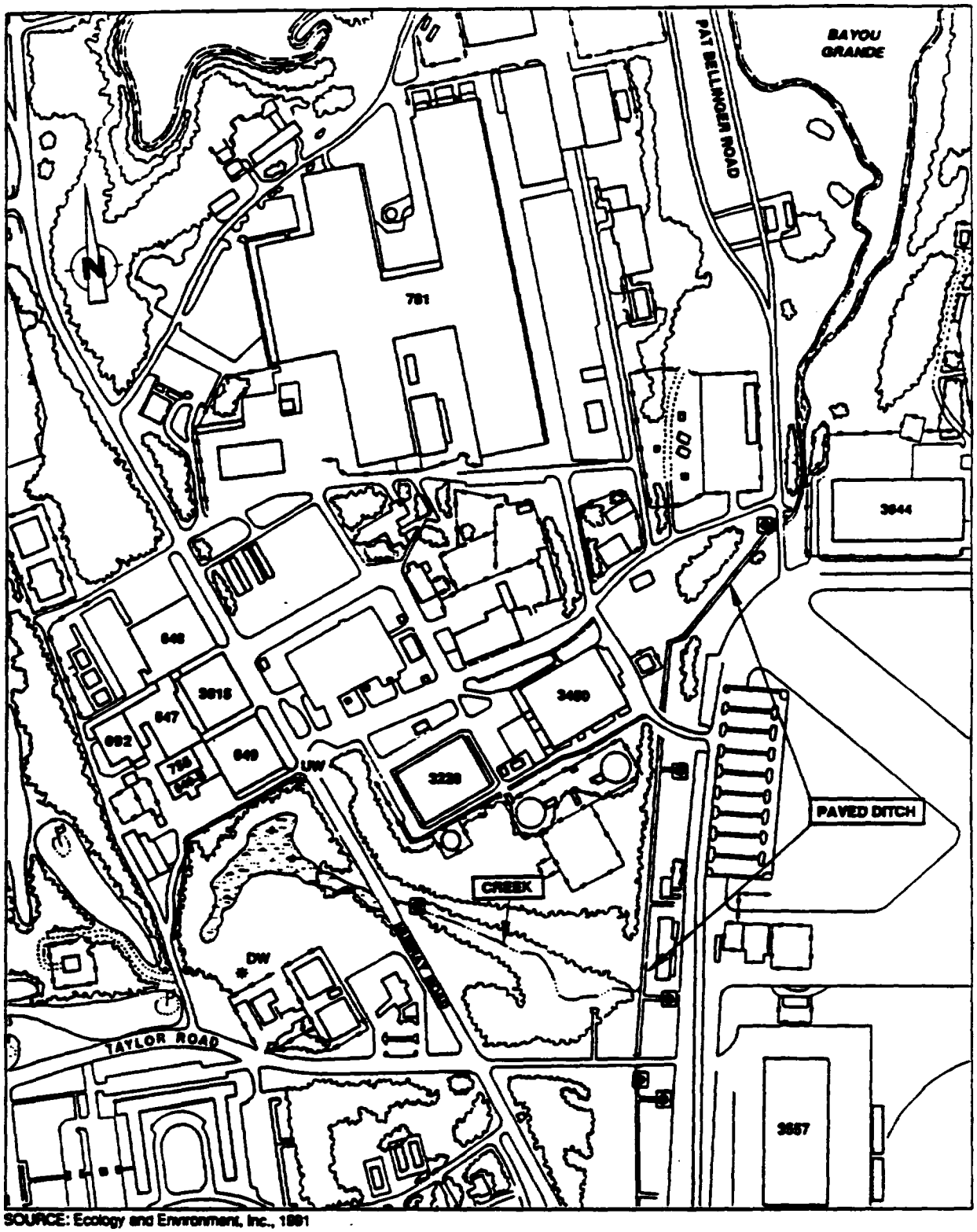


SOURCE: Ecology and Environment, Inc., 1991

SCALE
0 200 400 800 FEET

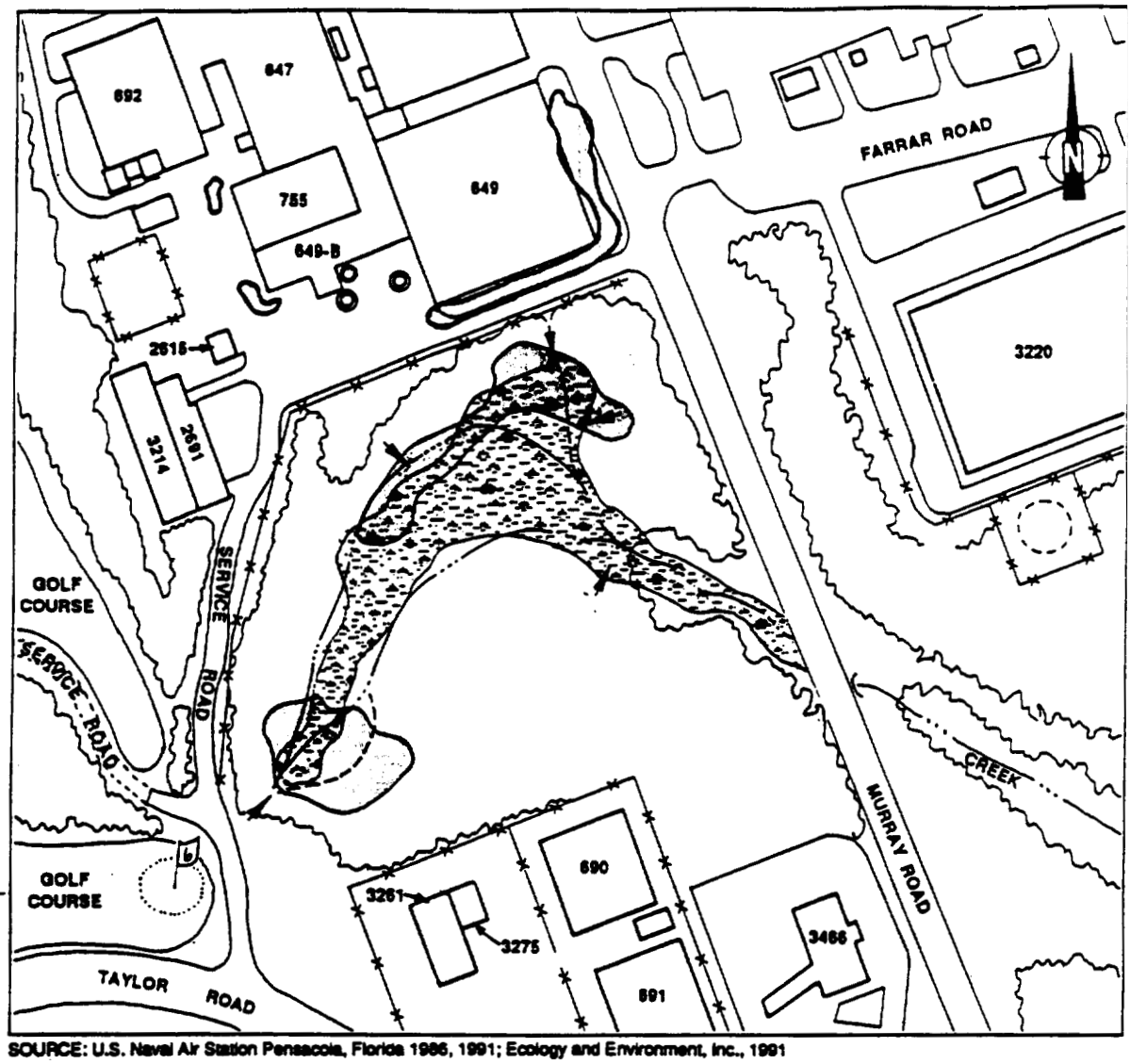
KEY:

OVA Concentration Greater than Background

Particulate Air Sampling Location

DW/UW Downwind/Upwind

Figure 3-2 SURFACE EMISSIONS SURVEY MAP FOR THE CREEK AND PAVED DITCH AND PARTICULATE AIR SAMPLING LOCATIONS — NAS PENSACOLA SITE 30



SOURCE: U.S. Naval Air Station Pensacola, Florida 1986, 1991; Ecology and Environment, Inc., 1991

SCALE

0 200 400 FEET

KEY:

Emergent Marsh

Area Having OVA Concentrations Above Backgroun

Radiation Readings Above Background

Creek

Intermittent Creek

Outfall

Figure 3-3 SURFACE EMISSIONS AND RADIATION SURVEY MAP FOR THE WETLAND AND BUILDING AREAS — NAS PENSACOLA SITE 30

are attributed to the oily sheen observed in the water in these areas. Elevated organic vapor readings were not observed elsewhere at the site.

On November 13, 1990, a Mini-Ram particulate air monitoring device was used to determine if Site 30 could represent a source of particulates in the air. [Figure 3-2 presents the particulate air sampling locations at Site 30.] During the test, the wind vas blowing from the north-northeast at approximately 5 to 8 miles per hour (mph). The Mini-Ram was placed upwind approximately 100 feet south of the southeast corner of Building 649. After 15 minutes, the time weighted average (TWA) of particulates at tbe upwind location (UW)] vas 0.03 milligrams per cubic meter (mg/m^3). The Mini-Ram vas than placed directly downwind of and approximately 600 feet southwest of the upwind [location]. After a period of 15 minutes, the TWA [at tbe downwind location (DW)] vas recorded as 0.02 mg/m^3. Based on these results, the site does not appear to be a significant source of particulates.

35 RADIATION SURVEY

Background radiation levels for [gamma radiation at] NAS Pensacola are 2 to 3 microRoentgens per hour (µR/h). [Only] two readings above background were noted, [both] south of Building 649-B (see Figure 3-3). These lov level readings, 6 µR/h and 7 µR/h, do not indicate a significant radiation problem at Site 30. The source of these slightly elevated readings is unknown.

36 GEOPHYSICAL SURVEY

Average EM-31 readings for Site 30 were generally 10 to 20 millimhos per meter (mmhos/m), but some readings as high as 125 mmhos/m were recorded in anomalous areas. Figure 2-1 shows the layout of the survey grid, and Figure 3-4 shows areas of EM-31 readings greater than 20 mmhos/m. Appendix C presents the grid coordinates and En-31 readings at the grid points.

The results of the survey indicated anomalous areas (readings greater than 20 mmhos/m) in the paved areas' around the buildings 649 and 755, as well as linearly along the fence line south of the buildings. The buildings and the fence contribute to elevated conductance; however, because the entire fence line and building areas were not anomalously

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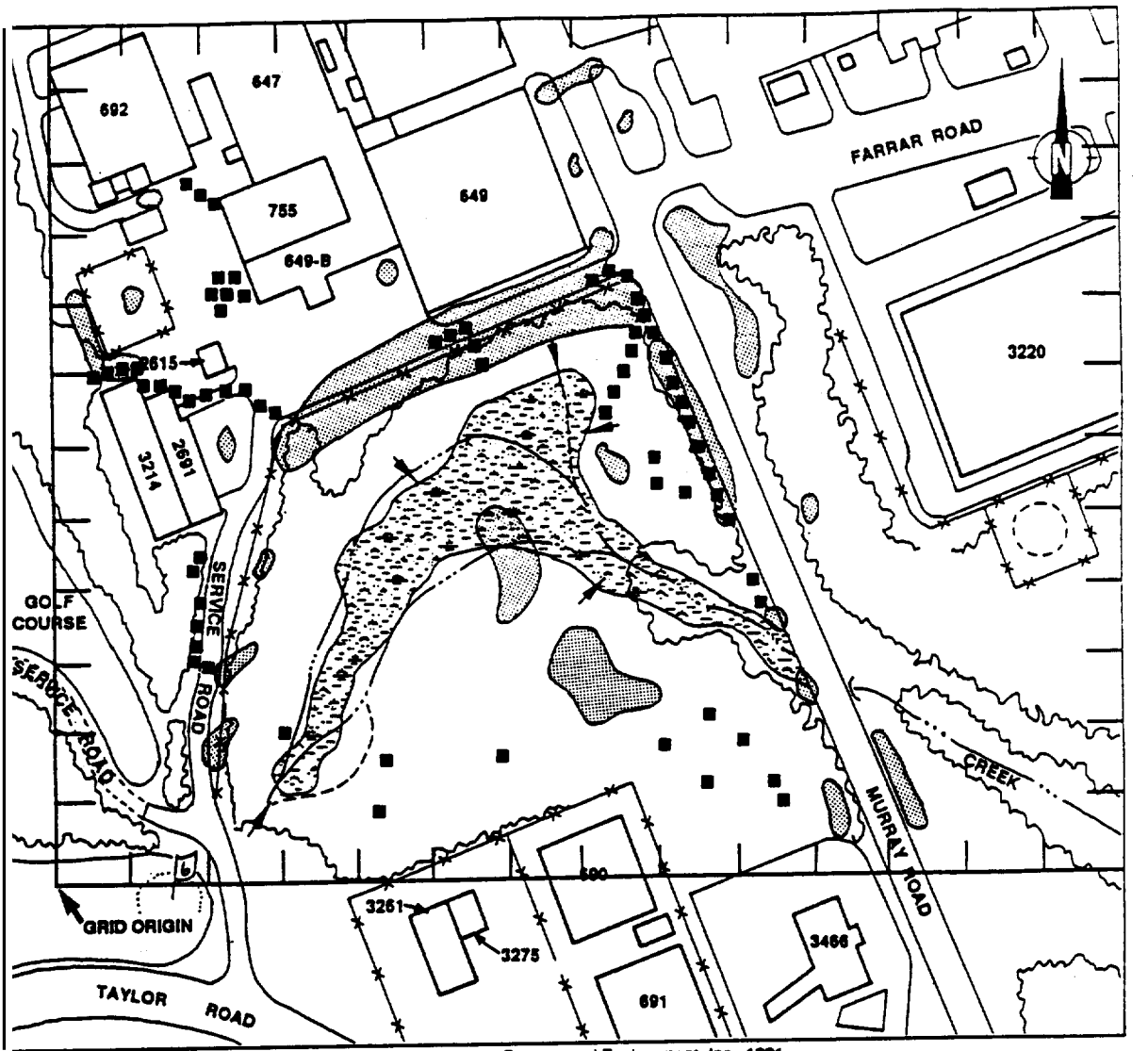

SOURCE: U.S. Naval Air Station Pensacola, Florida 1986, 1991; Ecology and Environment, Inc., 1991

SCALE

0 200 400 FEET

KEY:

- Emergent Marsh
- Survey Grid Boundary
- Outfall
- Indicates Areas with EM-31 Readings Greater than 20 mmhos/m
- Indicates a Positive Metal Detector Reading
- Creek
- Intermittent Creek

Figure 3-4 METAL DETECTOR AND EM-31 SURVEY MAP— NAS PENSACOLA SITE 30

high in conductance, these structures are not considered the only sources of these anomalies. Underground utilities may also contribute to the elevated conductance in the anomalous areas. The large anomalous area that runs along the southern side of Building 649 might also have been affected by metal-plating solution spills or dumping; however, the linear nature of the anomaly indicates it is likely the result of underground utilities ,in this area.

Other anomalies were detected along Hurray Road. These anoaalies are probably due to underground utilities that run along the western side of the road. Two large anomalies within the marsh and surrounding forested area at grid points (6, 5) and (8, 3) arc of particular concern and may be the result of metal-plating solutions that have been released into this area.

A metal detector was also used at Site 30 to locate near surface underground metal objects such as pipes and utilities. Buried metal was detected at several locations in the paved area and in the vegetated area. These locations are shown on Figure 3-4. A linear feature, possibly an underground pipe, was detected northeast of the marsh trending to the northeast toward Murray Road. The metal detector readings correlate with the En-31 anomalies along Hurray Road and in areas along the fence south of Building 649. Other miscellaneous readings may be attributable to buried debris at the site. Appendix D presents the grid coordinates and metal detector readings for the site.

37 HYDROLOGIC ASSESSMENT

3.7.1 Shallow Subsurface Lithology

Appendix E presents the lithologic logs for the eleven soil brings completed at Site 30. Based on information collected during the completion of boreholes, the shallow subsurface lithology beneath Site 30 can be generally characterized as a brown to yellow-brown fine- to medim-grained quartz sand that becomes a light gray to white, medium- to coarse-grained quartz sand near the water table. The borings located near buildings 649 and 755 included several feet of silty, sandy fill material occasionally mixed with shell fragments and pebbles. Boring B001, located near Building 692, included a layer of black, clayey, silty sand from 16 to 18 feet BLS. No other fine-grained layers were

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noted in the shallow soils at the site. [OVA readings taken in the open boreholes during drilling ranged from 0 to 40 ppm. The open borehole OVA readings are presented in Appendix B.]

3.7.2 Vater Levels and Groundwater/Surface Vater Flov

Table 3-1 lists the water level elevations measured in the temporary monitoring wells, creek, paved ditch, and marsh at Site 30. Based on the measurements taken from the soil borings and temporary monitoring wells, the depth to the water table across the site ranges from greater than 25 feet BLS in topographically higher areas (i.e., near Building *649)* to less than 3 feet BLS in lower areas (i.e., the marsh area).

Groundwater Plow

Figure 3-5 illustrates the water level elevations and the groundwater flow direction in the upper portion of the surficial zone of the Sand-and-Gravel Aquifer at Site 30; the surface water elevation in the adjacent wetland is also shown. Based on the groundwater elevations, the direction of shallow groundwater flow is to the east-southeast, and the horizontal hydraulic gradient is approximately 0.012.

Although the water level elevations plotted on Figure 3-5 were calculated based on water levels measured over a period of two days, it is believed that the flow direction (to the east-southeast) and horizontal hydraulic gradient (approximately 0.012), are generally representative of the conditions prevailing at that time. Furthermore, although a more southward groundwater flow direction may have been expected based on the steep drop in'land surface elevation in a southward direction (i.e., toward the marsh area), the existence of an east-southeastward flow direction is reasonable given the possibility of: 1) mounding of the water table in the marsh area, and 2) discharge of groundwater into the ditch and/or creek further to the east.

Mounding of the water table in the marsh area is fairly probable given that the surface water elevation in the marsh is much higher than the groundwater elevation in nearby temporary monitoring well TW008 (7.34 feet above mean sea level (HSL) versus 3.72 feet above MSL; see

Table 3-1

TEMPORARY MONITORING WELL CONSTRUCTION INFORMATION
AND WATER LEVEL ELEVATIONS
NAS PENSACOLA SITE 30

Well Number/ Location	Total kpth (BLS)	Depth to Water (BLS)	Depth to Water (BTOC)	TOC Elevation	Water Level Elevation	Date Measured
TW002	21.7	17.3	20.14	29.53	8.89	1/8/91
TW005	15.9	9.63	11.71	22.37	6.66	1/8/91
W 0 7	24.9	20.18	25.88	33.03	7.15	1/8/91
TW008	12.5	8.84	11.82	15.54	3.12	1/8/91
TW010	6.2	2.63	6.43	13.11	1.32	1/9/91
Staff Gauge 1	NA	NA	NA	NA	1.63	2/26/91
Staff Gauge 2	NA	NA	NA	NA	-0.88	2/26/91
Marsh	NA	NA	NA	NA	7.34	3/25/91

14[NASP]UN6057:T0235/237/22

Notes:

All depths are in Loot.
All elevations are in foot referenced to mean sea level (MSL).
All wells were constructed of 2-Arch diameter stainless steel with 5 Loot of 0.01-inch screen.

Key:

NA = lot applicable.
BLS = Below land surface.
TOC = Top of casing.
BTOC = Below top of casing.

Source: Ecology and Environment, Inc., 1991.

[Bold items enclosed in brackets denote changes to the last version of document]

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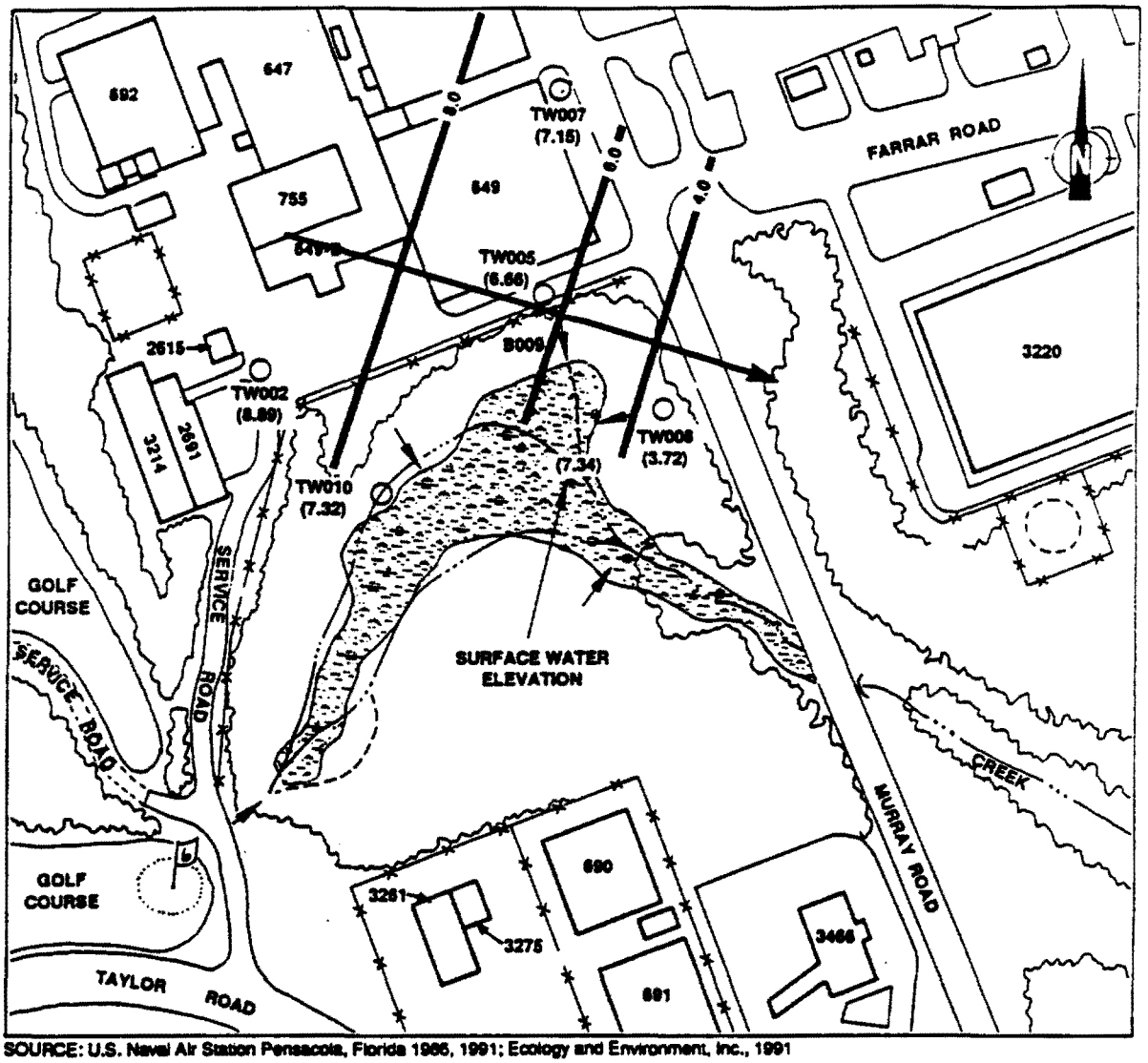

SOURCE: U.S. Naval Air Station Pensacola, Florida 1986, 1991; Ecology and Environment, Inc., 1991

SCALE

0 200 400 FEET

KEY:

- Emergent Marsh
- Temporary Monitoring Well
- (8.89) Water Level Elevation (feet above MSL)
- 8.0 Water Level Elevation Isopleth (feet above MSL)
- Groundwater Flow Direction
- Outfall
- Creek
- Intermittent Creek

Figure 3-5 SURFICIAL ZONE WATER LEVEL ELEVATIONS — NAS PENSACOLA SITE 00

Table 3-1 and Figure 3-5). Consequently, the surface vater in the marsh should provide a source of groundvater recharge in this area. Furthermore, surface vater recharge of groundvater may occur on a continuous basis given the presence of at least one outfall pipe that appears to discharge continuously into the marsh area (see Section 2.2). The "perching" of the surface vater in the marsh area at higher (relative to groundvater) elevations probably reflects the combined effect of the continuous outfall discharge and the presence of low-permability materials (e.g., clay, silt, and organic layers) underlying the marsh area.

Evidence for groundvater discharge into the paved ditch and/or creek east of the marsh area is presented belov.

Surface Water Flov

Flov measurements were obtained at three station locations in the creek and paved ditch (see Figure 2-2). Station 1 vas located in the unpaved portion of the creek just east of the bridge on Pat Bellinger Road; Station 2 vas located in the paved ditch approximately 10 feet north of the creek/ditch confluence; and Station 3 vas located in the unpaved portion of the creek approximately 10 feet vest of the creek/ditch confluence. The flov measurements obtained at each station are shovn in Table 3-2. Appendix F presents stream flov station information.

Although the stream flov measurements vere obtained at both lov and high tide conditions, the high tide measurements vere collected 11 days after the lov tide measurements. As a result of this elapsed time between the respective flov measurement events, an evaluation of the significance of the tidal differences has not been made. Thus, to simplify the comparison of flov between stations, the flov rates are discussed as the average of the lov tide and high tide measurements.

The average flov rate of the creek at Station 3 (i.e., just before it enters the paved ditch) is 3.3 cubic feet per second (ft^3/s); whereas, the average flov rate at Station 2 (i.e., just after the creek enters the ditch) is 6.7 ft^3/s. Hence, on average, the portion of the paved ditch south of the creek contributes approximately 3.4 ft^3/s of additional flov to the creek at their confluence. Average flov between

[Bold items enclosed in brackets denote changes to the last version of document]

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Table 3-2

SURFACE WATER FLOW RATE MEASUREMENTS
NAS PENSACOLA SITE 30

	Flow Rate (ft^3/s)		
Location	High Tide	Lov Tide	Average
Station 1	11.1	8.9	10.0
Station 2	1.5	5.9	6.7
Station 3	1.8	4.8	3.3

14[NASP]UH6057:T0235/313/28

Key:

ft^3/s = Cubic feet per second.

Source: Ecology and Environment, Inc., 1991.

Station 2 and Station 1 also increases 3.3 ft^3/s (i.e, from 6.7 ft^3/s to 10.0 ft^3/s). Given that no outfalls vere observed to be discharging in this area at the time that the measurements vere taken, the increase in flow betveen the tvo stations is probably the result of groundwater discharge into this portion of the paved ditch.

3.8 CHEMICAL ANALYSES

(The following section presents the results of the laboratory analyses of the surface vater, sediment, soil, and groundvater samples. The specific analytical parameters and parameter groups are listed or referenced in Table 2-2.]

The following sections refer to Site 11 as a potential source of contamination for the Site 30 surface water and sediment samples collected near Bayou Grande. Site 11 is a former landfill, located at the distal end of the creek at Site 30 vhere the creak enters Bayou Grande. Soil and groundwater sampling results from Site 11 indicate highly elevated concentrations of metals, TRPHs, VOCs, PAHs, and phenols associated vith former landfill activities. The results of the Site 11 investigation are presented in a separate report.

3.8.1 Surface Vater

Table 3-3 summarizes the analytical screening reaults for surface vatcr samples collected at Site 30. Figure 2-2 shovs the locations of the surface vater samples collected at the site. The complete analytical screening results for surface water samples are presented in Appendix G.

In general, only lov levels of metals vere detected in the surface water samples collected at Site 30. Eowever, a lov level of the volatile organic compound (VOC) trichloroethene was detected in sample SW014. Polynuclear aromatic hydrocarbons (PAHs), phenols, pesticides, polychlorinated biphenyls (PCBs), and total recoverable petroleum hydrocarbons (TRPHs) were not detected in any of the surface vater samples.

Metals

As shown in Table 3-3, zinc vas detected in all of the surface

3000366

Table 3-3

SUMMARY ANALYTICAL SCREENING RESULTS FOR SURFACE WATER SAMPLES
NAS PENSACOLA SITE 30
(All results in µg/L unless noted)

Parameter	[Detection Limit	Sample Number (Location)						[FSWS
		P30SW002 (SW002)	P30SW003 (SW003)	P30SW004 (SW004)	P30SW006 (SW006)	P30SW007 (SW007)	P30SW008 (SW008)	
Arsonic	**69**	71	--	**120**	--	--	--	**50**
Chromium	10	52	--	--	--	--	--	**50**
Zinc	20	100	**110**	**110**	**150**	**60**	**150**	**1000**
Coppor	25	--	--	--	--	--	--	**30]**
Trichloroethene	**10**[	--	--	--	--	--	--	

14[NASP]UH6057:T0235/228/18

Key at ond of table.

[Bold items enclosed io brackets denote
changes to the last version of document]

Table 3-3 (Cont.)

Parameter	[Detection Limit	Sample Number (Location)							[FSWS
		P30SW010 (SW010)	P30SW010D[a] (SW010)	P30SW011 (SW011)	P30SW012 (SW012)	P30SW014 (SW014)	P30SW017 (SW017)	P30SW021 (SW021)	
Arsenic	69	—	—	—	—	—	—	—	50
Chromium	10	—	—	—	—	—	—	—	50
Zinc	20	40	39	65	140	270	110	280	1,000
Copper	25	—	—	—	130	—	—	—	30]
Trichloroethene	10]	—	—	—	—	16	—	—	

14[NASP]UH6057:T0235/228/18

Key:

[FSWS Florida Class III Surface Water Standard]

[a]Duplicate of sample P30SW010.

Dash (—) indicates compound not detected.

Source: Ecology and Environment, Inc., 1991.

[Bold items enclosed in brackets denote changes to the last version of document]

water samples at concentrations ranging from 39 micrograms per liter (µg/L) in duplicate sample SW010D to 280 µg/L in sample SW021. Hence, in all the surface water samples, the measured zinc concentration exceeded the Florida Department of Environmental Regulation (FDER) Class III surface water quality standard of 30 µg/L (Chapter 17-302, Florida Administrative Code [FAC]). The highest zinc concentrations were found in sample SW014 (270 µg/L), collected from the creek east of Murray Road, and sample SW021 (280 µg/L), collected from the marsh. Two of the three lowest zinc concentrations were found in ditch samples SW010 and SW010D (40 µg/L) and SW011 (65 µg/L), collected upstream of the creek/ ditch confluence. The remaining relatively low zinc concentration vas detected in sample SW007 (60 µg/L), collected about 500 feet downstream of the creek/ditch confluence.

Arsenic (71 µg/L) and chromium (52 µg/L) were both detected in sample SW002, collected in Bayou Grande. An even higher arsenic concentration (120 µg/L) vas detected in sample SW004 collected about 1,200 feet upstream from sample SW002. Copper (130 µg/L) was detected in only one sample (SW012). Where present, the detected concentrations of these three metals (arsenic, chromium, and copper) also exceed the corresponding FDER Class III surface water quality standards: arsenic = 50 µg/L, chromium = 50 µg/L, and copper = 30 µg/L (Chapter 17-302, FAC).

VOCs

Trichloroethene was the only VOC detected in the surface water samples collected at Site 30. Trichloroethene was detected at a concentration of 16 µg/L in only one sample (SW014, collected east of Hurray Road). Chapter 17-302, FAC, does not include a surface water quality standard for this compound.

3.8.2 Sediment

Table 3-4 summarizes the analytical screening results for sediment samples collected at Site 30. Figure 2-2 shows the locations of the sediment samples collected at the site. The complete analytical screening results for sediment samples are presented in Appendix H.

In general, one or more of the sediment samples collected at Site 30 exhibited elevated levels of metals, TRPHs, VOCs, PAHs, and phenols.

Table 3-4

SUMMARY ANALYTICAL SCREENING RESULTS FOR SEDIMENT SAMPLES
NAS PENSACOLA SITE 30
(All results in mg/kg unless noted)

Parameter	[Detection Limit	Sample Number (Location) P30SD001 (SD001)	P30SD002 (SD002)	P30SD003 (SD003)	P30SD004 (SD004)	P30SD005 (SD005)	P30SD006 (SD006)	P30SD007 (SD007)
Arsenic	**6.9**	11	—	—	—	—	—	—
Chromium	**1**	33	1,800	1,300	**15**	74	**26**	**53**
Zinc	a	12	130	130	14	31	**8.4**	32
Lead	4	**16**	400	**550**	47	**35**	—	**44**
cadmium	e.5	0.82	45	37	1.8	1.3	**0.59**	1.8
Nickel	4	—	6.3	—		—	—	—
Copper	**2.5**	3.6	47	**35**	18	s.9	—	7.8
Silver	**1**	—	2.3	1.5	—	—	—	—
TRPHs	5	—	6,000	32,000	440	180	10	120
Methylene Chloride (µg/kg)	**1,000**	—	**5,200(B)**	**5,200(B)**	**5,400(B)**	4,500(B)	**4,500(B)**	**2,700(B)**
1,1,1-Trichloroethane (µg/kg)	1,000	—	—	—	—	—	—	—
Total PAHs a								
Benzo-a-pyrene (µg/kg)	1,000	1,200	7,700	33,000	30,000	1,800	**(L)**	1,600
Phenols as								
Trichlorophenol (µg/kg)	2,000	—	—	61,000	—	6,600	—	4,400
Dieldrin/4,4-DDE (µg/kg)	**1,000**	—	—	—	—	—	—	—
Total PCBs (µg/kg)	**5,000]**	—	**(L)**	**(L)**	—	—	—	—

14[NASP]UH6057:T0235/229/5

Key at end of table.

[Bold items enclosed in brackets denote changes to the last version of document]

Table 3-4 (Cont.)

Parameter	[Detection Limit	Sample Number (Location)						
		P30SD008 (SD008)	P30SD009 (SD009)	P30SD010 (SD010)	P30SD011 (SD011)	P30SD012 (SD012)	P30SD013 (SD013)	P30SD014 (SD014)
Arsonic	6.9	--	--	--	--	--	--	--
Chromium	1	19	10	2.4	1.8	60	120	32
Zinc	2	12	19	30	42	89	85	53
Load	4	6.7	14	7.6	39	34	180	70
cadmium	0.5	--	0.78	--	--	2.5	19	2.4
Nickel	4	--	--	--	--	--	5.8	--
Copper	2.5	2.9	5.0	4.1	14	17	36	36
Silver	1	--	--	--	1.6	--	--	--
TRPHs	5	40	45	33	57	290	720	58
Methylene Chloride (µg/kg)	1,000	1,800(B)	23,000(B)	1,700(B)	1,800(B)	20,000(B)	1,700(B)	19,000(B)
1,1,1-Trichloroethane (µg/kg)	1,000	--	--	--	--	--	--	1,000
Total PAHs as Benzo-a-pyrene (µg/kg)	1,000	(L)	1,600	1,200	1,800	(L)	1,100	--
Phenols as Trichlorophenol (µg/kg)	2,000	--	--	2,600	--	--	--	--
Dieldrin/4,4-DDE (µg/kg)	1,000	--	--	--	--	--	--	--
Total PCBs (µg/kg)	5,000]	--	--	--	--	--	--	--

14[NASP]UH6057:T0235/229/5

Key at end of table.

[Bold items enclosed in brackets denote changes to tho last version of document]

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Table 3-4 (Cont.)

Param tot	[Detection Limit	P30SD015 (SD015)	P30SD015D[a] (SD015)	P30SD016 (SD016)	P30SD017 (SD017)	P30SD018 (SD018)	P30SD019 (SD019)	P30SD020 (SD020)	P30SD021 (SD021)
		Sample Number (Location)							
Arsenic	**6.9**	—	—	—	—	—	—	—	—
Chromium	1	17	**16**	10	1.6	**6.3**	**82**	13	10
Zinc	**2**	*86*	78	100	34	**69**	100	240	44
Load	4	130	120	100	37	**87**	61	91	32
Cadmium	**0.5**	1.7	1.3	1.4	—	—	1.7	1.3	1.1
Nickel	4	—	—	—	—	—	13	4.4	—
Copper	**2.5**	93	04	93	10	**68**	36	21	10
Silver	**1**	—	—	—	—	—	—	—	—
TRPHs	**5**	140	40	170	**52**	64	**100**	36	**44**
Methylene Chloride (μg/kg)	**1,000**	**9,200(B)**	**11,100(B)**	**3,500(B)**	**2,900(B)**	2,100(B)	2,500(B)	**1,400(B)**	**1,400(B)**
1,1,1-Trichloroethane (μg/kg)	**1,000**	**1,100**	—	—	—	—	—	—	—
total **PAHs as** Benzo-a-pyrene (μg/kg)	**1,000**	—	—	—	—	—	—	—	—
Phenols as Trichlorophenol (μg/kg)	**5,000**	—	—	(L)	—	(L)	—	**2,800**	—
Dieldrin/4,4-DDE (μg/kg)	**1,000**	(L)[b]	(L)[b]	(L)[b]	—	(L)[b]	—	—	—
Total PCBs (μg/kg)	**5,000]**	—	—	—	(L)	—	—	—	—

14[NASP]UH6057:T0235/229/5

Note: These results were reported on a wet-weight basis.

Key:

[a]**Duplicate of sample P30SD015**
[[b]**Detecton limit for specified parameter increased by a factor of 2 in this sample.]**

Dash (—) indicator compound not detected.

Qualifiers:
(B) = Compound also present in method blank.
(L) = Present below detection limit.

Source: Ecology rnd Environment, Inc., 1991.

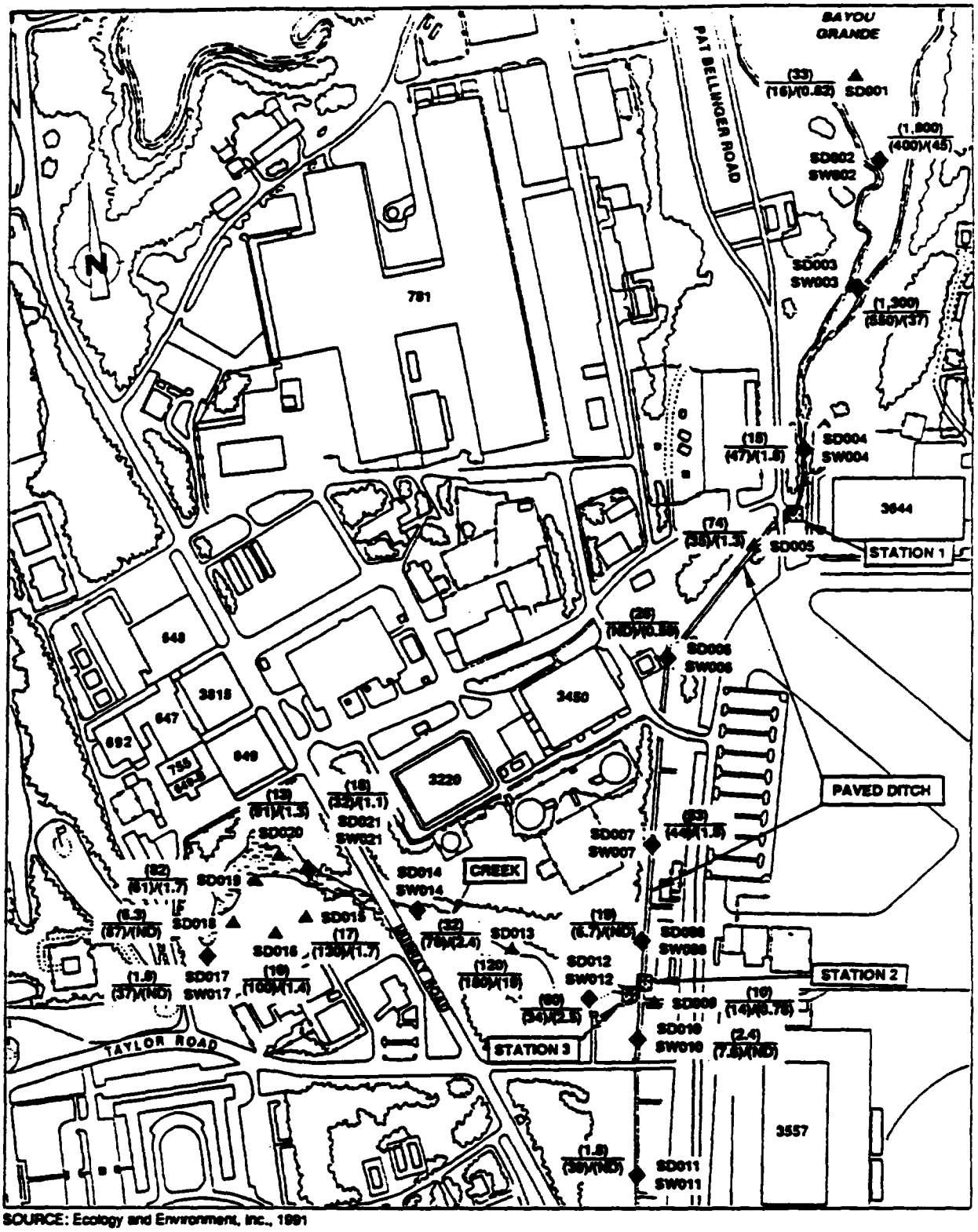
[Bold items enclosed in brackets denote changes to tho last version of document]

Only trace levels of pesticides and PCBs were detected. Contaminant concentrations tended to be lowest in sediment samples collected from the paved ditch. This distribution of contaminants suggests that sediments are being impacted by different sources of contamination. Sediments collected upstream (i.e., toward buildings 649 and 755) are most likely being impacted by Site 30, and sediments collected downstream (i.e, toward Bayou Grande) are most likely being impacted by Site 11.

Metals

In general, the relative concentrations of the detected metals varied proportionally from sample to sample. Consequently, metals contamination in sediments will be discussed below from the perspective of total metals concentrations. However, it should be noted that chromium, zinc, lead, cadmium, and copper were present in almost all of the samples; whereas, arsenic, nickel, and silver were detected in only a few of the samples. [Figure 3-6 illustrates the distribution of the chromium, lead, and cadmium concentrations detected in Site 30 sediment samples.]

Figure 3-[7] presents total metals concentrations in the sediment samples. Total metals concentrations were generally lowest in the paved ditch (samples SD006 through SD011), ranging from 34.99 milligrams/kilogram (mg/kg) to 138.60 mg/kg (mean = 67.58 mg/kg). In contrast, the total metals concentrations in sediment samples SD012 through SD021, collected between the ditch and buildings 649 and 755 ranged from 82.60 to 445.80 mg/kg (mean = 255.62 mg/kg), and the concentrations in sediment samples SD001 through SD005, collected downstream of location SD006 toward Bayou Grande, ranged from 76.42 to 2,430.60 mg/kg (mean = 972.70 mg/kg). The highest total metals concentrations were detected in samples SD002 and SD003 (2,430.60 and 2,053.50 mg/kg, respectively). The above results suggest that metals contamination of sediments in the creek upstream from the paved ditch is associated with the former metal-plating activities at Site 30; whereas, metals contamination downstream of location SD006 is associated with leachate migration from Site 11.



SOURCE: Ecology and Environment, Inc., 1991

SCALE
0 200 400 800 FEET

KEY:

▲ Sediment Sample Location

♦ Surface Water and Sediment Sample Location

⊡ Stream Flow Station

(33) Chromium Concentration (mg/kg)
(16)/(0.82) Lead Concentration (mg/kg)
Cadmium Concentration (mg/kg)

(ND) Not Detected

Figure 3-6 CHROMIUM, LEAD, AND CADMIUM CONCENTRATIONS IN SEDIMENT SAMPLES — NAS PENSACOLA SITE 30

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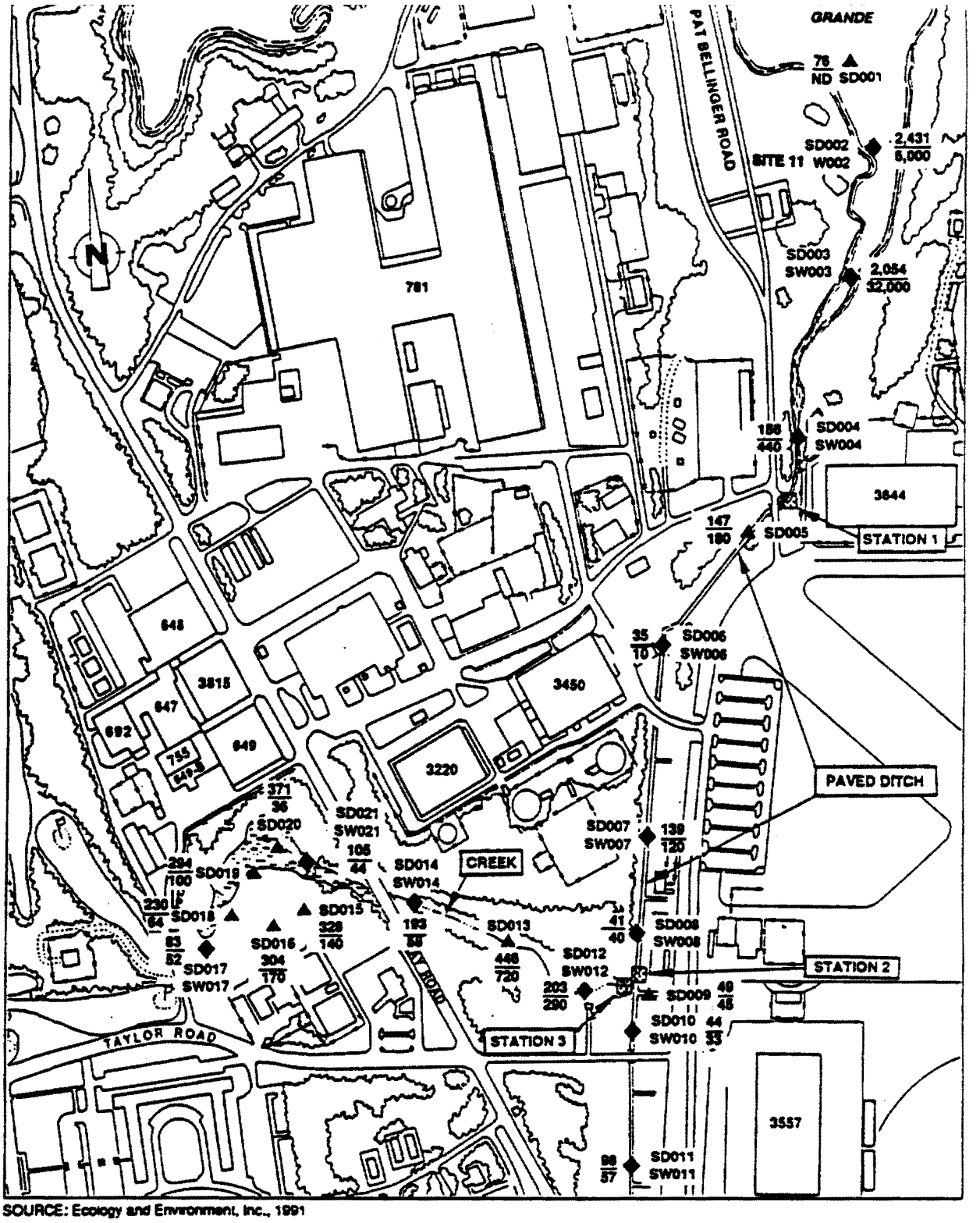

SOURCE: Ecology and Environment, Inc., 1991

SCALE
0 200 400 600 FEET

KEY:

▲ Sediment Sample Location

◆ Surface Water and Sediment Sample Location

Figure 3-7 TOTAL METALS AND TRPH CONCENTRATIONS IN SEDIMENT SAMPLES — NAS PENSACOLA SITE 00

TRPHs

Sediment TRPH concentrations generally follow the same distribution as metals concentrations discussed above (see Figure 3-[7]). Lover concentrations were detected in the paved ditch (saaples SD006 through SD011, mean = 50.83 mg/kg); somewhat higher eoncentrations were detected upstream toward buildings 649 and 7S5 (samples SD012 through SD021, mean = 167.40 mg/kg); and even higher concentrations vere detected downstream toward Bayou Grande (saaples SD001 through SD005, mean = 7,724.00 mg/kg). The highest TRPH concentrations were detected in tvo pairs of adjacent samples. Samples SD003 and SD002 had 32,000 mg/kg and 6,000 mg/kg, respectively, and samples SD013 and SD012 had 720 mg/kg and 290 mg/kg, respectively. As in the case of the metals, both Site 30 (i.e., buildings *649* and 7SS) and Site 11 appear to be contributing to the detected sediment TRPH contamination.

VOCs

Methylene chloride vas detected in all but one of the sediment samples at concentrations as high as 23,000 µg/kg. Hovever, this common laboratory solvent vas also detected at similar levels in the laboratory method blanks (see Section 3.10.2); therefore, its presence in the sediment saaples is attributable to laboratory-derived contamination. 1,1,1-Trichloroethane was the only other VOC detected. This contaainant was present in saaples SD014, collected from the creek east of Hurray Road, and SD015, collected from the marsh opposite SD014 vest of Hurray Road, at concentrations of 1,000 µg/kg and 1,100 µg/kg, respectively.

PAHs

The highest PAR concentrations (up to 33,000 µg/kg) were generally detected downstream in the paved ditch (in samples SD002 through SD005), in the area previously discussed as probably being impacted by leachate from Site 11 (see Figure 3-18)). PAHs were found in elevated concentrations in Site 11 soil samples. PAHs were also detected in the paved ditch samples SD006 through SD011, as vell as in saaples SD012 and SD013. No PAHs vere detected in samples SD014 through SD021 collected within or immediately dovnstream of the marsh area. It should be noted

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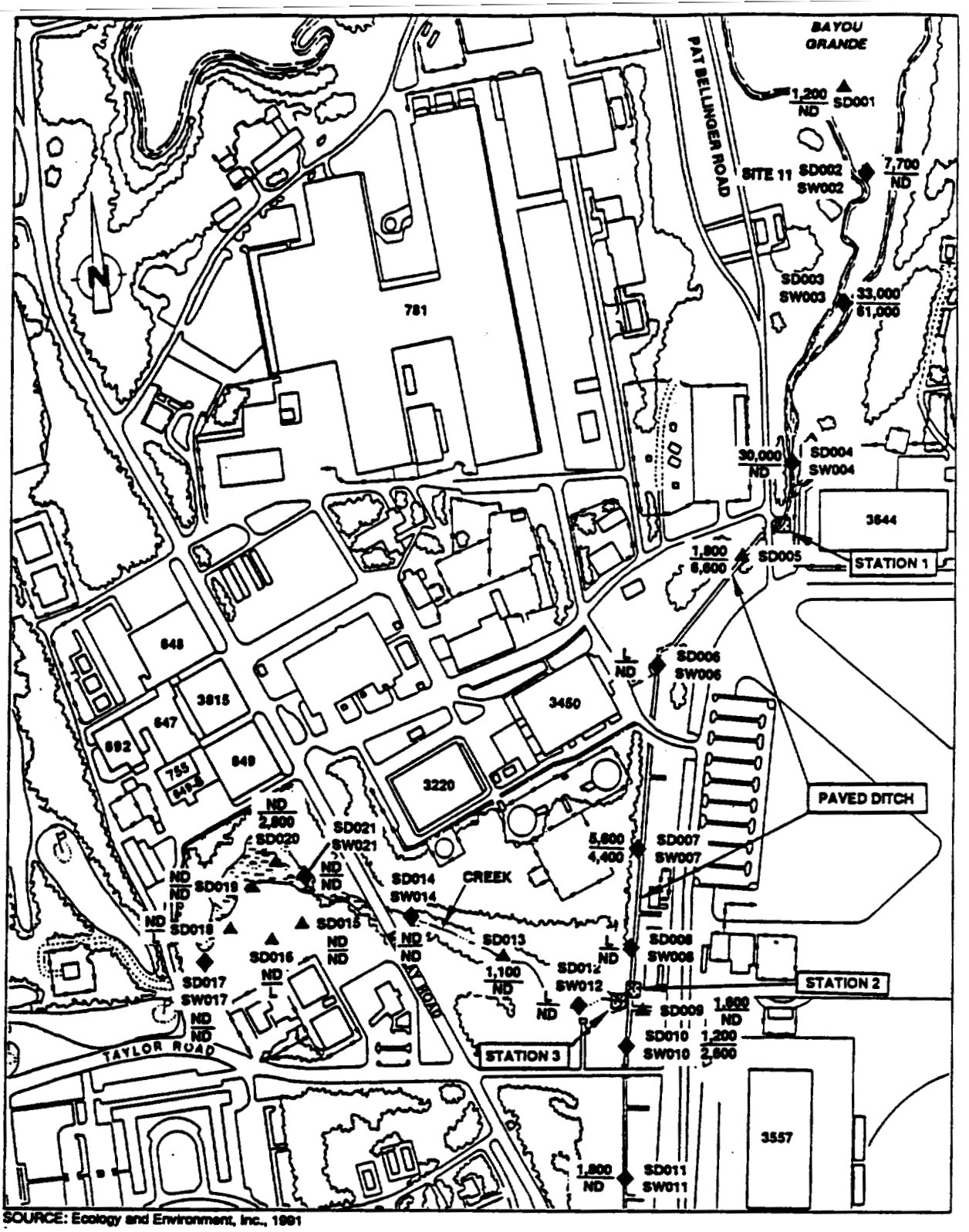

SOURCE: Ecology and Environment, Inc., 1991

SCALE
0 200 400 600 FEET

KEY:

A Sediment Sample Location

◆ Surface Water and Sediment Sample Location

Stream Flow Station

2,800 PAH Concentrations (ug/kg) / Phenol Concentrations (ug/kg)

ND Not Detected

L Present Below Detection Limit

Figure 3-8 PAH AND PHENOL CONCENTRATIONS IN SEDIMENT SAMPLES — NAS PENSACOLA SITE 30

that PAHs vere reported as benzo-a-pyrene for laboratory reporting purposes: however, PAHs other than benzo-a-pyrene may be present in the samples.

Phenols

Phenols vere detected in seven of the sediment samples, but only five samples (SD003, **SD005, SD007,** SD010, and SD020) exhibited concentrations above the detection limit (2,600 **µg/kg** to 61,000 **µg/kg;** see Figure 3-[a]). Sample SD003, collected from the mouth of Bayou Grande near Site 11, exhibited the highest phenol concentration. Soil samples from Site 11 also had high phenol concentrations. Overall, there is no clear pattern to the distribution of phenols across the Site 30 sediments. It should be noted that phenols were reported as trichlorophenol for laboratory reporting purposes; however, phenols other than trichlorophenol may be present in the samples.

Pesticides

The pesticide **Dieldrin/4,4-DDE** vas present belov the detection limit in three samples (SD015, SD016, and SD018) collected in the southern portion of wetland area.

PCBs

Trace amounts of PCBs vere detected in samples SD002, SD003, and SD017.

3.8.3 soil

Table 3-5 summarizes the analytical screening results for soil samples collected at Site 30. Figure 2-3 **shows** the boring locations at Site 30. The complete analytical screening results for soil samples are presented in Appendix I.

In general, one or more of the soil samples collected at Site 30 exhibited elevated levels of metals, TRPHs, VOCs, PAHs, and phenols. The highest contaminant concentrations vere usually detected in the A sampling interval (0 to 5 feet BLS). Pesticides and PCBs vere not detected in any of the soil samples.

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Table 3-5

SUMMARY ANALYTICAL SCREENING RESULTS FOR SOIL SAMPLES
NAS PENSACOLA SITE 30
(All results in mg/kg unless noted)

Parameter	[Detection Limit	Sample Number (Location and Depth Interval)							
		P30S001A (B001A)	P30S001B (B001B)	P30S001C (B001C)	P30S001D (B001D)	P30S001E (B001E)	P30S002A (B002A)	P30S002B (B002B)	P30S002C (B002C)
Chromium	1	5.1	--	1.2	3.5	2.1	2.1	2.0	--
Zinc	2	5.4	--	--	2.5	--	5.9	2.8	2.1
Cadmium	0.5	0.68	--	--	--	--	1.1	--	--
Copper	2.5	--	--	--	--	--	--	--	--
TRPHs	5	100	50	45	110	43	14	16	20
1,1-Dichloroethene (µg/kg)	1,000	--	--	--	--	--	1,100	--	--
Methylene Chloride (µg/kg)	1,000	5,000(B)	4,800(B)	4,900(B)	6,700(B)	6,600(B)	1,100	1,500	--
Total PAHs as Benzo-a-pyrene (µg/kg)	1,000	64,000	1,000	1,500	1,600	--	--	--	--
Phenols as Trichlorophenol (µg/kg)	2,000]	200,000	18.000	16,000	--	--	--	--	--

14[NASP]UH6057:T0235/230/5

Key at end of table.

[Bold items enclosed in brackets denote changes to tho last version of document]

Tabla 3-5 (Coat.)

Parametor	[Detection Limit	Sample Number (Location and Depth Interval)							
		P30S002D (B002D)	P305002DD[a] (B002D)	P30S003A (B003A)	P30S003B (B003B)	P30S003C (B003C)	P30S003D (B003D)	P30S004A (B004A)	P30S004B (B004B)
Chromium	1	1.6	1.6	2.6	1.9	1.6	1.1	2.3	4.0
Zinc	2	3.0	4.3	3.0	3.1	--	--	2.0	3.0
Cadmium	0.5	--	--	0.51	--	--	--	--	0.84
Copper	2.5	--	--	--	--	--	--	--	--
TRPHs	5	19	11	--	--	--	--	38	170
1,1-Dichloroethene (μg/kg)	1,000	--	--	--	--	--	--	--	--
Methylene Chloride (μg/kg)	1,000	--	--	2,900(B)	1,900(B)	--	5,800(B)	6,700(B)	6,400(B)
Total PAHs as Benzo-a-pyrene (μg/kg)	1,000	(L)	L)	19,000	5,700	2,400	--	--	(L)
Phenols as Trichlorophenol (μg/kg)	2,000]	--	--	51,000	20,000	5,300	--	--	2,900

14[NASP]UH6057:T0235/230/5

Key at end of tabla.

[Bold items enclosed in brackets denote changes to tho last version of document]

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Table 3-5 (Cont.)

Parameter	[Detection Limit	Sample Number (Location and Depth Interval)							
		P30S004C (B004C)	P30S004D (B004D)	P30S004E (B004E)	P30S005A (B005A)	P30S005B (B005B)	P30S005C (B005C)	P30S006A (B006A)	P30S006B (B006B)
Chromium	1	1.4	2.2	1.8	2.7	9.5	5.9	3.5	2.0
Zinc	2	—			3.4	5.0	4.8	12	2.8
Cadmium	0.5	—	—	—	—	—	—	—	—
Copper	2.s	—	—	—	—	—	—	—	—
TRPHs	5	6.8	—	13	65	42	17	—	—
1,1-Dichloroethene (μg/kg)	1,000	—	—	—	—	—	—	—	—
Methylene Chloride (μg/kg)	1,000	5,400(B)	4,100(B)	4,200 B)	—	—	—	4,600(e~	2,800 B)
Total PAHs as Benzo-a-pyrene (μg/kg)	1,000	—	—	—	3,800	—	—	—	—
Phenols as Trichlorophenol (μg/kg)	2,000]	—	—	—	—	—	—	—	—

14[NASP]UH6057:T0235/230/5

Key at and of table.

[Bold items enclosed in brackets denote changes to tho last version of document]

Table 3-5 (Cont.)

Parameter	[Detection Limit	Sample Number (Location and Depth Interval)							
		P30S006C (B006C)	P30S006D (B006D)	P30S006E (B006E)	P30S007A (B007A)	P30S007B (B007B)	P30S007C (B007C)	P30S007D (B007D)	P30S007E (B007E)
Chromium	1	1.6	2.2	15	1.2	1.5	1.1	--	1.2
Zinc	a	2.1	2.9	--	6.b	4.b	4.5	3.3	2.3
Cadmium	0.5		--	0.55	--	--	--	--	--
Copper	2.5	--	--	2.8	--	--	--	--	--
TRPHs	5	--	--	8.4	17	33	50	39	--
1,1-Dichloroethene (µg/kg)	1,000	--	--	--	--	--	--	--	--
Methylene Chloride (µg/kg)	1,000	2,600(B)	7,000(B)	4,200(B)	--	--	--	--	--
Total PAHs as Benzo-a-pyrene (µg/kg)	1,000	--	--	--	(L)	--	--	--	--
Phenols as Trichlorophenol (µg/kg)	2,000]	--	--	--	--	--	3,300	6,900	15,000

14[NASP]UH6057:T0235/230/5

Key at end of table.

[Bold items enclosed in brackets denote changes to the last version of document]

Table 3-5 (Cont.)

Parameter	[Detection Limit	Sample Number (Location and Depth Interval)					
		P30S008A (B008A)	P30S008B (B008B)	P30S008C (B008C)	P30S009A (B009A)	P30S0010A (B010A)	P30S011A (B011A)
chromium	1	1.8	18	1.0	71	2.6	2.0
Zinc	2	4.0	3.4	2.6	4.2	--	5.9
Cadmium	0.5	--	--	--	--	--	0.60
Copper	2.5	--	--	--	--	--	--
TRPHs	5	12	11	12	360	11	300
1,1-Dichloroethene (µg/kg)	1,000	--	--	--	--	--	--
Methylene Chloride (µg/kg)	1,000	--	--	--	6,100(B)	4,900(B)	3,000(B)
Total PAHs as Benzo-a-pyrene (µg/kg)	1,000	--	--	(L)	2,000	(L)	1,200
Phenols as Trichlorophenol (µg/kg)	2,000]	15,000	16,000	--	47,000	3,500	--

14[NASP]UH6057:T0235/230/5

Note: Tho letter at tho oad of each sample and boring number denotes tho depth interval below land surface: A = 0 to 5 foot, B = 5 to 10 foot, C = 10 to 15 Coot, D = 15 to 20 foot, and E = 20 to 25 Coot. These results were reported on a wet-weight basis.

Key:

[a]Duplicate of sample P30S002D.

Dash (--) indicates compound not detected.

Qualifiers:
(B) = Compound also present in method blank.
(L) = Present below detection limit.

Source: Ecology and Environment, Inc., 1991.

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Metals

Chromium and zinc were detected in most of the soil samples; cadmium and copper were detected in just a few samples. As in the case of the sediment samples, metals contamination of soils is most readily described from the perspective of total metals concentrations. In general, the highest metals concentrations were detected in the A interval. The highest total metals concentration (75.2 mg/kg) was detected in the soil sample collected from the A interval of boring B009, located south (i.e, downstream) of Building 649. This concentration is almost five times higher than the next highest concentration (15.5 mg/kg) detected in the A-interval sample from boring B006. Figure 3-[9] shows the total metals [and chromium] concentrations in the shallow soil interval (A interval) for each of the borings at the site. The higher metals concentrations in the samples collected downslope of buildings 649 and 755 may reflect the metal-plating activities associated with these buildings.

TRPHs

TRPHs were generally present at concentrations of less than 100 mg/kg, with the highest concentrations generally being detected in the A interval (see Table 3-5 and Figure 3-[lo]). The highest TRPH concentrations (360 mg/kg and 300 mg/kg) in the A interval were detected in borings B009 and Boll, respectively, located in the ursh area. The boring B001 D-interval (15 to 20 feet BLS) sample and the boring B004 B-interval (5 to 10 feet BLS) sample also exhibited TRPH concentrations above 100 mg/kg (110 mg/kg and 170 mg/kg, respectively). These borings were located in the vicinity of buildings 692 and 649, respectively.

VOCs

Methylene chloride was detected in many of the soil samples at concentrations as high as 7,000 µg/kg. However, as in the case of the sediment samples, this common laboratory solvent was also detected at similar levels in the laboratory method blank (see Section 3.10.2); therefore, its presence in the soil samples is attributable to laboratory-derived contamination.

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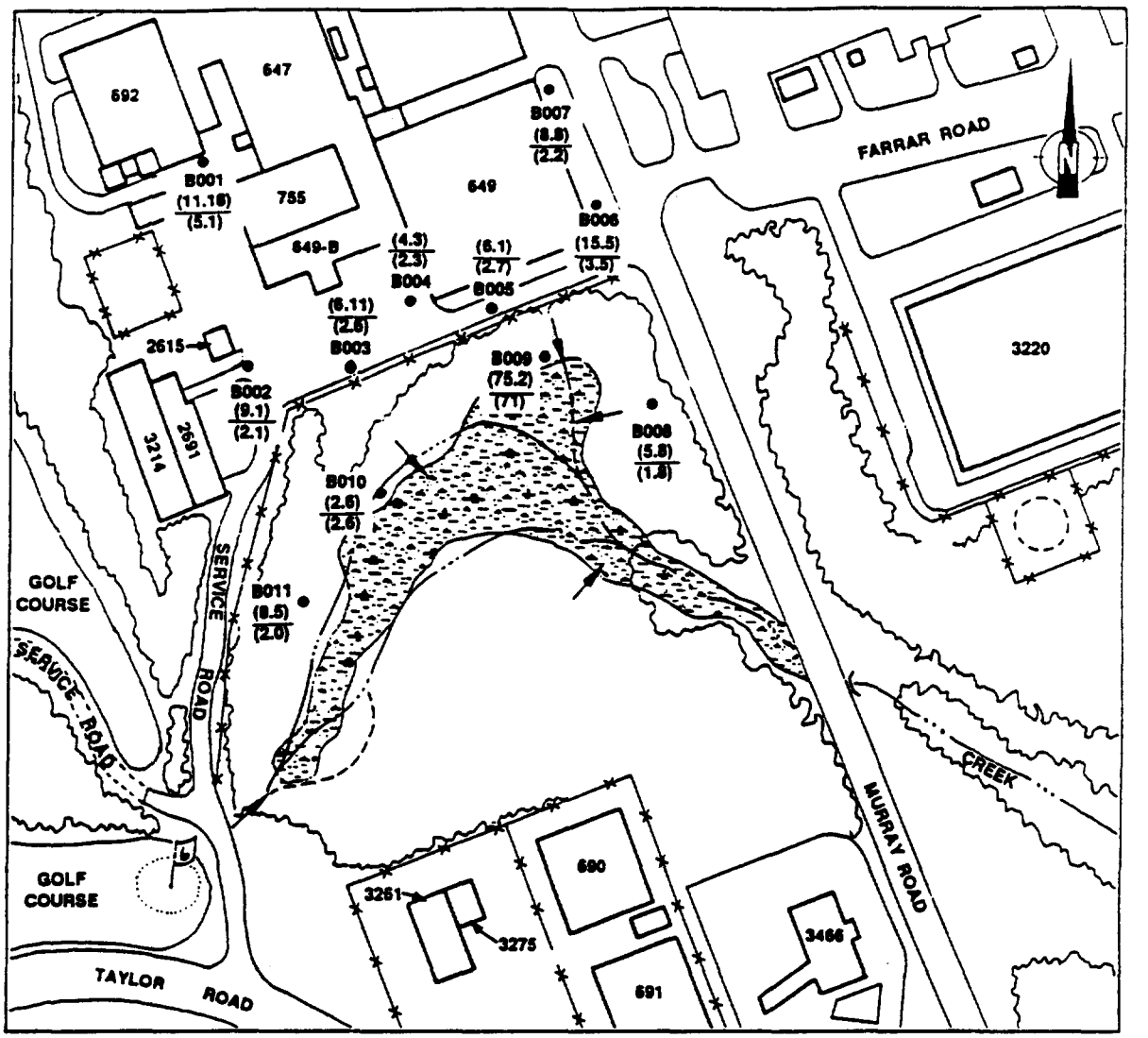


SOURCE: U.S. Naval Air Station Pensacola, Florida 1986, 1991; Ecology and Environment, Inc., 1991

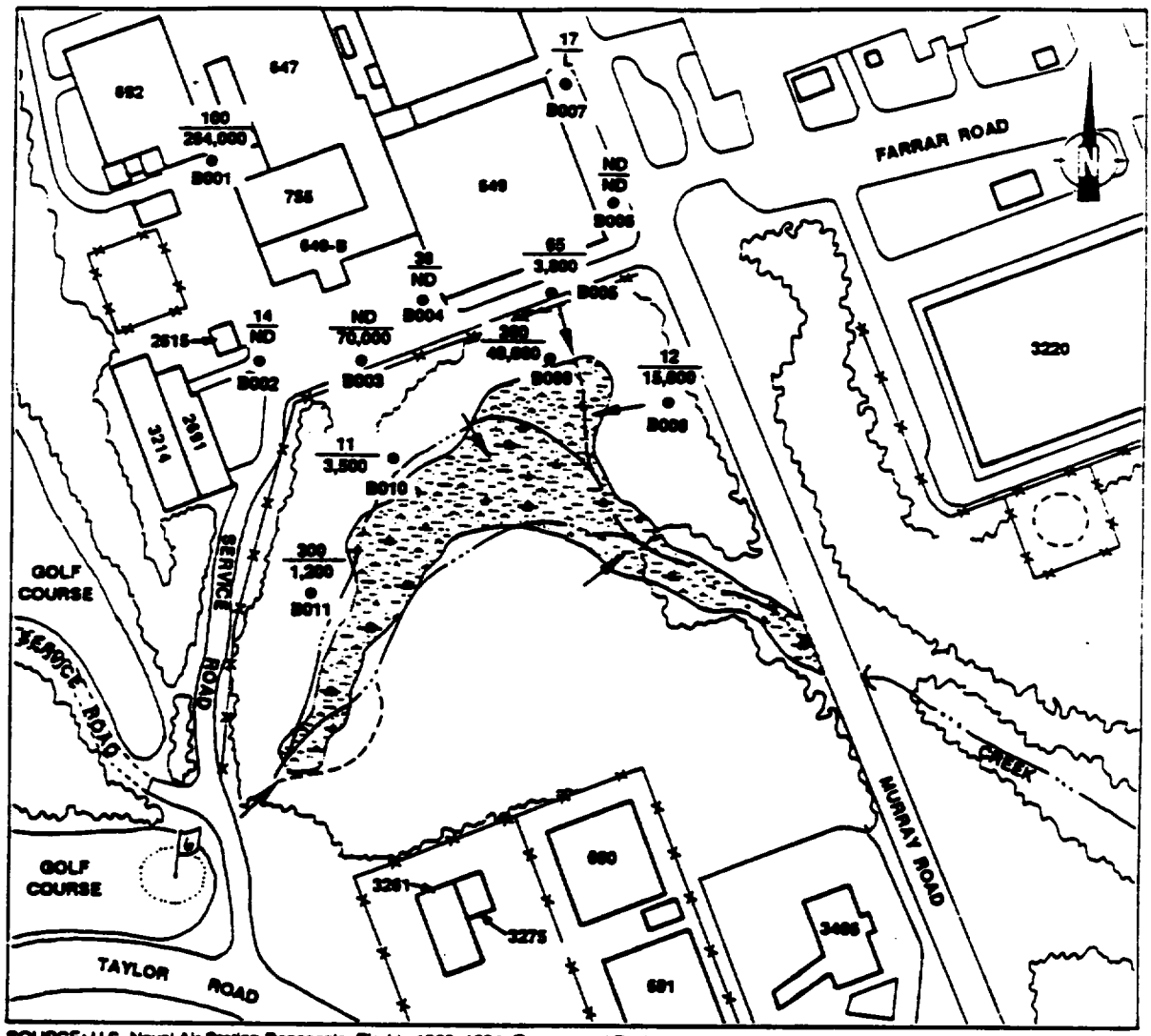
SCALE

0 200 400 FEET

KEY:

- Emergent Marsh Area
- Creek
- Intermittent Creek
- Soil Boring
- Outfall
- (11.8) / (5.1) Total Metals Concentration (mg/kg) / Chromium Concentration (mg/kg)

Figure 3-9 TOTAL METALS AND CHROMIUM CONCENTRATIONS IN A-INTERVAL SOIL SAMPLES— NAS PENSACOLA SITE 30



SOURCE: U.S. Naval Air Station Pensacola, Florida 1988, 1991; Ecology and Environment, Inc., 1991

SCALE

0 200 400 FEET

KEY:

- Emergent Marsh
- Soil Boring
- Outfall
- 11 / 3,500 — TRPH Concentration (mg/kg) / Total PAH and Phenol Concentration (ug/kg)
- ND — Not Detected
- L — Present Below Detection Limit
- Creek
- Intermittent Creek

Figure 3-10 TRPH AND TOTAL PAH AND PHENOL CONCENTRATIONS IN A-INTERVAL SOIL SAMPLES — NAS PENSACOLA SITE 30

3000376

1-1-Dichloroethene, detected in A-interval soil sample S002A at a concentration of 1,100 µg/kg, was the only other VOC detected.

PAHs and Phenols

Very high PAH and phenol concentrations were detected at boring locations B001 (near the southeast corner of Building 692), B003 (south of Building 649-B), and B009 (south of Building 649). At all three locations, the highest concentrations vere detected in the A-interval samples (only an A-interval sample vas collected at location 8009). Figure 3-[10] presents the combined PAR and phenol concentrations detected in the A-interval soil samples from each boring. However, elevated concentrations were also detected in the B- and C-interval samples from boring locations B001 and B003. The boring B001 A-interval sample exhibited the highest PAH (64,000 µg/kg) and phenol (200,000 µg/kg) concentrations measured on site.

Elevated PAR concentrations were also detected in the A-interval samples from borings B00S and B011. As shown in Table 3-5 and Figure 3-9, PAHs vere also present in several samples at concentrations below the detection limit. Elevated phenol concentrations were also detected in samples from borings B004 (B interval), B007 (C, D, and E intervals), B008 (A and B intervals), and B010 (A interval). It should be noted that the phenol concentrations at boring location B007 increase with depth (see Table 3-5).

The above results indicate widespread PAH and phenol contamination of Site 30 soils. Although much of the detected contamination appears potentially related to activities associated with buildings 649 and 755, the very high levels detected in samples from boring B001 suggest the potential presence of an additional source in this area.

3.8.4 Groundwater

3.8.4.1 Field Parameters

Table 3-6 lists the groundwater temperature, pH, and specific 'conductance values measured for the samples collected from the temporary monitoring wells. The field parameter measurements for these wells are within the reported range of values for ambient groundwater in Escambia County (Clemens et al. 1989). [The range of pH values is *5.43* to *6.24.*]

[Bold items enclosed in brackets denote changes to the last version of document]

Table 3-6

GROUNDWATER FIELD PARAMETERS
NAS PENSACOLA SITE 30

Well Number	Temperature (°C)	pH (units)	Specific Conductance (umhos/cm)	Date Measured
TW002	24.1	6.10	170	1/8/91
TW005	22.4	6.14	253	1/8/91
U 0 7	23.2	6.03	188	1/8/91
TW008	20.4	6.24	177	1/8/91
TW010	21.8	5.43	107	1/9/91

14[NASP]UN6057:T0235/238/26

Source: Ecology and Environment, Inc., 1991.

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No floating or [sinking] immiscible hydrocarbons were observed in any of the wells. Appendix E presents the temporary monitoring well information including field parameter and groundwater elevation data.

3.8.4.2 Analytical Screening Parameters

Table 3-7 summarizes the analytical screening results for the groundwater samples collected from the five temporary monitoring wells installed on Site 30. Figure 2-3 shows the temporary monitoring well locations at Site 30. The complete analytical screening results for the groundwater samples are presented in Appendix J. In general, one or more of the groundwater samples collected at Site 30 exhibited elevated levels of metals, VOCs, PAHs, and phenols. However, as will be discussed in Section 3.9, the elevated metals concentrations detected probably reflect leaching/dissolution of aquifer matrix sediments entrained in these unfiltered samples by the acid preservative rather than actual groundwater contamination. Pesticides and PCBs were not detected in any of the groundwater samples. TRPHs were detected in only one sample at a low level.

Metals

Chromium (all samples) and cadmium (all samples except GW007) were detected at concentrations exceeding the Florida Primary Drinking Water Standard (FPDVS) of 50 µg/L and 10 µg/L, respectively (Chapter 17-550, FAC). Zinc (all samples) and copper (all samples except GW007) were also detected, but at concentrations below the Florida Secondary Drinking Vater Standard (FSDVS) of 5,000 and 1,000 µg/L, respectively (Chapter 17-550, PAC). Nickel vas detected in three samples (GW005, GW008, and GW010), but only two (GW005 and GW008) exhibited nickel at a level exceeding the Florida Groundwater Guidance Concentration of 150 µg/L (FDER 1989).

In all of the above cases, by far the highest metals concentrations were detected in the samples collected from temporary monitoring wells "WOOS and TW008 (see Table 3-7). As shown on Figure 3-[11], which presents the total metals[, Chromium, and cadmium] concentrations at each groundwater sampling location, wells TW005 and TW008 were both located immediately downslope of Building 649. Consequently, it appears

Table 3-7

SUMMARY ANALYTICAL SCREENING RESULTS FOR GROUNDWATER SAMPLES
NAS PENSACOLA SITE 30
(All results in µg/L unless noted)

Parameter	[Detection Limit	Sample Number (Location) P30GW002 (TW002)	P30GW005 (TW005)	P30GW007 (TW007)	P30GW007D[a] (TW007)	P30GW008 (TW008)	P30GW010 (TW010)	[FPDWS/ FSDWS
Chromium	10	440	6,300	930	940	0,300	500	50
Zinc	20	03	250	160	49	290	88	5,000
Cadmium	5	16	360	8.8	9.0	00	19	10
Nickel	40	--	2,200		--	2,200	71	
Copper	25	33	74	--	--	74	44	1,000
TRPHs	1	1.1	--	--	--	--	--	
Benzene	10	(L)[b]	--	--[c]	--[c]	--	--	1
Toluene	10	870[b]	--	--[c]	--[c]	--	--	
Ethylbenzene	10	330[b]	--	--[c]	--[c]	--	--	
Total Xylenes	10	1,200[b]	--	--[c]	--[c]	--	--	
Methylene Chloride	10	(L)[b]	--	(L)[c]	(L)[c]	--	--	
1,1-Dichloroethane	10	--[b]	--	(L)[c]	(L)[c]	--	--	
1,1,1-Trichloroethane	10	--[b]	--	2,500[c]	2,300[c]	--	--	200]
Total PAHs as Benzo-a-pyrene	100	110	--	--	--	--	--	
Phenols as Trichlorophenol	100]	320	--	--	--	--	--	

14[NASP]UN6057:T0235/231/5

Key:

[FPDWS = Florida Primary Drinking Water Standard.
FSDWS = Florida Secondary Drinking Water Standard.]

[a]Duplicate of sample P30GW007.
[b]Detection limit for specified parameter increased by factor of 25 in this sample.
[c]Detection limit for specified parameter increased by factor of 50 in this sample.]

Dash (--) indicates compound not detected.

Qualifier:
(L) = Present below detection limit.

Source: Ecology and Environment, Inc., 1991.

[Bold items enclosed in brackets denote changes to the last version of document]

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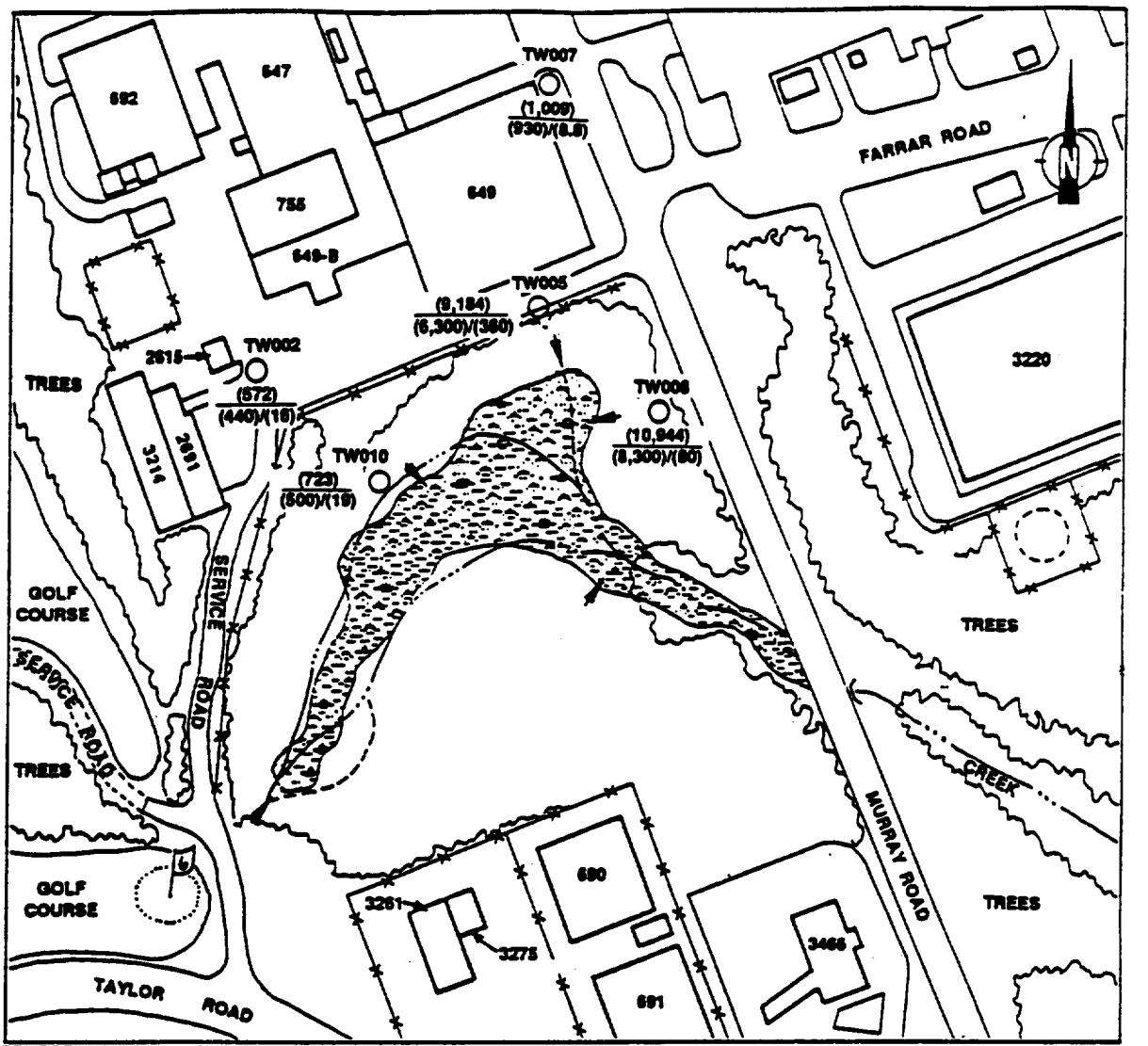

SOURCE: U.S. Naval Air Station Pensacola, Florida 1986, 1991; Ecology and Environment, Inc., 1991

SCALE

0 200 400 FEET

KEY:

Emergent Marsh Area

Temporary Monitoring Well

Outfall

(572) Total Metals Concentration (ug/L)
(440)/(16) Chromium Concentration (ug/L)/ Cadmium Concentration (ug/L)

Figure 3-11 TOTAL METALS, CHROMIUM, AND CADMIUM CONCENTRATIONS IN SHALLOW GROUNDWATER — NAS PENSACOLA SITE 30

likely that at least this area has been impacted by the former metal-plating activities at Site 30. However, it cannot be determined at this time whether the high metals concentrations represent actual groundwater contamination, or reflect leaching/dissolution of contaminants from contaminated aquifer matrix sediments entrained in the unfiltered samples (see Section 3.9).

VOCs

Samples from two wlls (TW007 and TW002, located at the northeast corner of Building 649 and southvest of Building 647-B, respectively) exhibited elevated concentrations of one or more VOCs. The duplicate sample set from well TW007 exhibited 1,1,1-trichloroethane at concentrations of 2,500 µg/L and 2,300 µg/L (in the duplicate), greatly exceeding the FPDWS of 200 µg/L (Chapter 17-550, PAC). This sample set also exhibited trace levels of two other volatile halocarbons, 1,1-dichloroethene and methylene chloride. In contrast, the sample from well TW002 contained elevated levels of several volatile aromatic hydrocarbons. The total detected concentration of 2,400 µg/L for benzene, toluene, ethylbenzene, and xylenes (Total BTEX) greatly exceeding the Florida cleanup standard of 50 µg/L (Chapter 17-770, PAC). Furthermore, it is highly probable that the trace levels of benzene detected in this sample exceeded the FPDWS of 1 µg/L (Chapter 17-550, PAC) given the degree to vhich the detection limit vas elevated (greater than 250 µg/L).

These results suggest the presence of two separate sources of VOC contamination in the vicinity of Site 30. However, given the locations of the tvo contaminated wells, neither area of groundwater contamination may be associated with Site 30 former metal-plating activities. Furthermore, as will be discussed belov regarding PAHs and phenols, the volatile aromatic contamination in vell TU002 may be associated vith the high levels of soil contamination detected in the boring B001 samples collected at the southeast corner of Building 692 (see tables 3-5 and 3-7).

PAHS and Phenols

As indicated in Table 3-7, elevated PAE (110 µg/L) and phenol (320 µg/L) concentrations were detected in sample GW002 only. The detected PAR concentration exceeds both of the potentially applicable FDER cleanup standards. For total naphthalenes the cleanup standard is 100 µg/L and for total PAHs (excluding naphthalenes) the cleanup standard is 10 µg/L (Chapter 17-770, FAC). Referring to Figure 3-9 and tables 3-5 and 3-7, it is interesting to note that the soil samples collected at well location TU002 (boring B002) did not contain detectable levels of PAHs and phenols; whereas, the samples collected hydraulically upgradient from boring BOOl (at the southeast corner of Building 692) did contain extremely elevated levels of these contaminants. Consequently, the PAH, phenol, and VOC (volatile aromatic) contamination detected in the well TW002 sample (GW002) could have been derived from or associated with the boring B001 soil contamination. In this scenario, the absence of volatile aromatics in the boring BOOl soil samples could simply reflect their greater solubility/mobility in this groundwater system (i.e., volatile aromatics are more readily flushed from the soil column than PAHs or phenols).

39 CONTAMINATION DISTRIBUTION/SOURCE DISCUSSION

All four of the media (surface water, sediment, soil, and groundwater) sampled on and in the vicinity of Site 30 exhibit at least trace levels of contamination by one or more of the contaminant groups (metals, TRPHs, VOCs, PAHs, phenols, pesticides, and PCBs) included in the Phase I analytical screening investigation. In some cases the detected contamination clearly appears associated with the former metal-plating activities in buildings 649 and 755. However, the Phase I results also appear to indicate the presence of other sources of contamination that impact on Site 30. In the folloving sections, each of the sampled media will be discussed separately regarding the nature, distribution, and potential source(s) of contamination.

3.9.1 Surface Water

Metals and trichloroethene were the only contaminants detected in the surface vater samples. Zinc was detected in all of the samples at

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concentrations exceeding the FDER Class III surface water standard. Where detected, arsenic (in two samples), chromium (in one sample), and copper (in one sample) also exceeded the FDER standard. Higher metals concentrations vere generally detected upstream of the creek/ditch confluence (tovard buildings 649 and 755) and downstream of this confluence (tovard Bayou Grande). As will be discussed in Section 3.9.2 (Sediment), this contaminant distribution is even more apparent in the sediment samples. Consequently, the surface water (and sediment) results suggest the presence of two ujor and one minor source areas of contamination. One major area is located upstream of the creek/ditch confluence toward buildings 649 and 755 and is likely associated vith the former metal-plating activities in this location. The second major area is located downstream of the creek/ditch confluence tovard Bayou Grande and is likely associated vith leachate migration from Site 11. The minor source area of contamination is located upstream of the creek/ditch confluence vithin the southern extent of the paved ditch and could reflect any number of activities vithin that area.

Trichloroethene vas detected in only one sample (SW014) collected in the creek on the east side of Murray Road. No surface water quality standard exists for this VOC, and no source area for its occurrence can be uniquely identified.

3.9.2 Sediment

One or more of the sediment samples collected at Site 30 contained elevated levels of metals, TRPHs, PAHs, and phenols. Lov levels of a single VOC (1,1,1-trichloroethane) vere detected in two samples collected immediately east and vest of Hurray Road (samples SD014 and D015, respectively). Only trace levels of pesticides and PCBs vere detected. Pesticide occurrences vere restricted to the southern portion of the vetland area and are probably due to surface water runoff from areas where pesticides have been used.

Chromium, zinc, lead, cadmium, and copper vere the primary metals contaminants detected in the sediments. These metals, as well as the TRPHs, vere found at the highest concentrations upstream of the creek/ditch confluence tovard buildings 649 and 755 and downstream of this confluence tovard Bayou Grande. Therefore, as discussed above in

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Section 3.9.1 (Surface Water), the former metal-plating activities at buildings 649 and 755 and leachate migration from Site 11 appear to represent the major sources of sediment metals and TRPE Contamination. In contrast, the major source of sediment PAH contamination appears to be leachate migration from Site 11, but upstream sources are also apparently making minor contributions to the sediment PAH contamination. Phenols do not exhibit a clear distribution pattern in the sediment samples, but by far the highest concentration was detected in a sample (S[D]003) potentially impacted by leachate migration from Site 11. [In addition, the phenols detected in the sediment sample downslope from Building 649 may be related to current activities in the building.]

3.9.3 Soil

Elevated levels of metals, TRPHs, PAHs, and phenols were detected in one or more of the soil samples collected at Site 30. The highest contaminant concentrations were usually detected in the shallow (0 to 5 foot BLS) sampling intervals. Pesticides and PCBs were not detected in any of the soil samples. A low level of a single VOC (1,1-dichloroethene) was detected in a single soil sample.

Chromium and zinc were the primary metals contaminants detected. The highest metals concentrations were detected in a sample collected downslope of buildings 649 and 755, suggesting that the detected contamination may be a result of the former metal-plating activities associated with these buildings. In contrast, TRPH, PAH, and phenol contamination is much more widespread across the Site 30 area, suggesting multiple sources including the former metal-plating facilities. In particular, the very high PAH and phenol concentrations detected at boring location B001 (at the southeast corner of Building 692) clearly suggest a potential source in this area.

3.9.4 Groundwater

Elevated levels of metals, VOCs, PAHs, and phenols were detected in one or more of the groundwater samples collected at Site 30. Pesticides and PCBs were not detected in any of the groundwater samples. TRPHs were detected in only one sample at a low level.

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Chromium and cadmium vere the most significant metals contaminants detected. However, given that these samples vere very turbid and not subjected to filtration, it is very possible that the elevated concentrations reflect leaching/dissolution of aquifer matrix sediments entrained in the unfiltered groundvater samples, by the acid used as a preservative, rather than actual groundvater contamination. Evidence that this may be occurring has been provided by the analytical results for metals samples collected from the existing monitoring vells on sites 1, 11, and 15 during the corresponding Phase I investigations. Groundvater samples from these vells are much less turbid, exhibit much lover total metals concentrations than nearby Phase I temporary monitoring vell samples, and exhibit even lover dissolved (millipore-filtered) metals concentrations.

In light of the above, groundvater metals contamination is possibly not as widespread on Site 30 as suggested by the Phase I analytical results. On the other hand, by far the highest metals concentrations in Site 30 groundvater samples vere detected in the samples collected from vells TW005 and TW008, located immediately downslope of Building 649. Consequently, even if these groundvater metals analytical results reflect leaching/dissolution of aquifer matrix sediments, the very high concentrations of metals detected suggest that these sediments may have been contaminated by activities related to the former metal-plating operations in this area. It should be noted that comparatively high soil metals concentrations vere detected in this same general area.

In contrast to the above, sources of groundvater VOC, PAH, and phenol contamination *are* clearly present in the vicinity of Site 30. None of this contamination appears clearly associated vith Site 30 former metal-plating activities[, *but* the contamination may be related to current activities at Building 649]. 1,1,1-Trichloroethane vas detected at levels far in excess of the FPDWS in the duplicate groundvater sample set collected from vell TW007, located near the northeast corner of Building *649.* Elevated Total BTEX, PAE, and phenol concentrations vere detected in the groundvater sample collected from vell TW002, located southvest of Building 649-B and hydraulically downgradient from boring B001 (the soil samples from boring B001 vere highly PAH- and phenol-contaminated). The detected Total BTEX and PAH concentrations in

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sample GW002 clearly exceed Florida groundwater cleanup standards, and the actual benzene concentration (which could not be quantified due to elevated detection limits) probably exceeds the FPDUS for this volatile aromatic hydrocarbon.

Soil contamination at boring location B001 and groundwater contamination at well location TW002 may be directly related; the absence of VOCs in boring B001 soil samples probably reflects the greater solubility/mobility of VOCs (i.e., VOCs are more readily flushed from the soil column than PAHs and phenols).

3.10 QA/QC

3.10.1 Field QA/QC

One field duplicate sample was collected per sampling medium for the Site 30 screening samples. The analytical results for the duplicate samples are presented in the summary tables for the respective media (tables 3-3, 3-4, 3-5, and 3-7). The surface water and soil duplicate samples (SW010D and S002DD, respectively) were in agreement, within acceptable limits, with the results for the original samples. The results for the duplicate groundwater sample (GW007D) were also in agreement, within acceptable limits, with the results for the original sample. In the sediment sampling event, sample SD015 had a reported 1,1,1-TCA concentration of 1,100 µg/kg; whereas, duplicate sample SD015D had no detectable concentration of 1,1,1-trichloroethane. However, given that the detection limit for sample SD015D was 1,000 µg/kg, the results for this sample set can also be considered in agreement.

3.10.2 Laboratory QA/QC

Methylene chloride is a common laboratory-derived contaminant (EPA 1988) and was present in several of the method blanks analyzed at the laboratory. It was not present in the groundwater method blank although three of the groundwater samples had trace amounts of methylene chloride. These trace amounts are below the detection limits and are probably laboratory-derived. Methylene chloride was also present in most of the soil method blanks; however, methylene chloride was found in

samples S002A and S002B but vas not found in the method blanks associated with the samples. The concentrations found in these samples were only slightly above the detection limit for this compound and, therefore, can also be attributed to laboratory-derived contamination.

4. CONCLUSIONS

Surface water, sediment, soil, and groundwater Contamination are all present on and in the vicinity of Site 30. Metals, TRPHs, VOCs, PAHs, and phenols are the primary contaminants. Some of the detected contamination is clearly associated with former metal-plating activities at buildings 649 and 755. However, additional sources of contamination are apparently impacting Site 30.

Tvo major areas of surface water (primarily metals) and sediment (metals, TRPHs, PAHs, and phenols) contamination appear to be present. Surface waters and sediments upstream of the creek/ditch confluence near buildings 649 and 755 have apparently been impacted by the former metal-plating activities in this area. Surface waters and sediments downstream of the confluence have apparently been impacted by leachate migration from Site 11. Surface water metals concentrations exceed Florida standards.

Several areas of soil contamination appear to be present. A limited area of metals contanination appears associated with the former metal-plating activities. In contrast, TRPH, PAH, and phenol contamination are widespread and could reflect multiple sources. In particular, very high levels of PAH and phenol contamination near Building 692 suggest a source in this area.

Several areas of groundwater contamination are also present. Metals concentrations exceeding Florida standards were widespread, but this widespread occurrence could reflect the fact that the turbid groundwater samples were not filtered prior to acid preservation. Groundwater metals contamination, of a more limited extent, appears to have occurred as a result of the former metal-plating activities. 1,1,1-Trichloroethane contamination greatly exceeding the Florida standard was detected near the northeast corner of Building 649. The

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source and extent of this contaminant plume are unknovn. Volatile aromatic hydrocarbon (BTEX), PAH, and phenol contamination greatly exceeding Florida standards was detected southvest of Building 649-B. This contaminant plume, the extent of vhich is unknown, may be associated with the area of soil contamination detected near Building 692.

Further assessment activities are required at and in the vicinity of Site 30.

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APPENDIX A

BIRDS OBSERVED DURING HABITAT/BIOTA SURVEY

Table A-1

BIRDS OBSERVED DURING HABITAT/BIOTA SURVEY
OCTOBER 1990

Mature pine forest, including grassy margins along dirt roads and thickets bordering forests.

Gray Catbird	Dumetella carolinensis
Rufous-sided Towhee	Pipilo erythrophthalmus
Yellow-throated Vireo	Vireo flavifrons
House Wren	Troglodytes aedon
Bluejay	Cyanocitta cristata
Eastern Phoebe	Sayornis phoebe
Mourning Dove	Zenaida macroura
Common Grackle	Ouiscalus quiscula
White-eyed Vireo	Vireo griseus
Northern Mockingbird	Mimus polyglottos
Cardinal	Cardinalis cardinalis
Carolina Wren	Thryothorus ludovicianus
Boat-tailed Grackle	Ouiscalus major
Brown Thrasher	Toxostoma rufum

Upland mature hardwood forest vith some mix of pines.

Prairie Warbler	Dendroica discolor
Northern Hockingbird	Mimus polyglottos
Mississippi Kite	Ictinia mississippiensis
Red-tailed Hawk	Buteo jamaicensis
Mourning Dove	Zenaida macroura
Ovenbird	Seiurus aurocapillus
Tufted Titmouse	Parus bicolor
Carolina Chickadee	Parus carolinensis
Golden Crowned Kinglet	Regulus satrapa
Ruby Crowned Kinglet	Regulus calendula
Nashville Warbler	Vermivora ruficapilla
Bluejay	Cyanocitta cristata

Beachfront, including shoreline along waterfront apron; Pensacola Bay open water; Bayou Grande open water; shoreline along dredge spoil fill area; interior mudflats of dredge spoil fill area; and primary dune/scrubby areas of beach.

Forester's Tern	Sterna porstcri
Herring Gull	Larus argentatus
Semi-palmated Plover	Charadrius semipalmatus
Great Blue Heron	Ardea herodias
Semi-palmated Sandpiper	li pus
Willet	Catoptrophorus semipalmatus
Ruddy Turnstone	Arenaria interpres
Royal Tern	Steina maxima
Sandwich Tern	terna sandircensis
Roseate Tern	Sterna dougallii
Common Tern	Sterna hirundo
Brovn Pelican	Pelecanus occidentalis
Killdeer	Charadrius vociferus
Chipping Sparrow	Spizella passerina
Eastern Wood Pewee	Contopus borealis
Bluejay	Cyanocitta cristatr
Osprey	Pandion haliaetus
Belted Kingfisher	Ceryle alcyon
Fish Crov	Corvus ossifragus
Mourning Dove	Zenaida macroura
Double Crested Cormorant	Phalacrocorax auritus
Northern Mockingbird	Mimus polyglottos
Sanderling	Calidris alba
Least Sandpiper	Calidris minutilla
Little Blue Heron	Egretta caerulea
Short-billed Dowitcher	Limnodromus griscus
Laughing Gull	Larus rtricilla
Black-bellied Plover	Pluvialis squatarola
Tree Swallow	Tachycineta bicolor
Acadian Flycatcher	Empidonax virescens
Eouse Wren	Troglodytes aedon

Marshland, including emergent vegetation found along Bayou Grande, Pensacola Bay, and brackish-vatcr ponds.

Pied-billed Grebe	Podilymbus podiceps
Great Blue Heron	Ardea herodias
Great Egret	Casmerodius albus
Snowy Egret	Egretta thula
Little Blue Heron	Egretta caerulea
Tricolored Heron	Egretta tricolor
Green-winged Teal	Anas crecea
Mottled Duck	Anas fulvigula
Blue-winged Teal	Anas discors
Northern Shoveler	Anas clypeata
Lesser Scaup	Aythya affinis
American Coot	Fulica americana
Mourning Dove	Zenaida macroura
Northern Flicker	Colaptes auratus
Bluejay	Cyanocitta cristata
Red-winged Blackbird	Agelaius phoeniceus
Belted Kingfisher	Ceryle alcyon
Rufous-sided Towhee	Pipilo erythrophthalmus
Cardinal	Cardinalis cardinalis
Yellowthroat	Geothlypis trichas
Forester's Tern	Sterna forsteri
Osprey	Pandion haliaetus
House Wren	Troglodytes aedon
Yellow-rumped Warbler	Dendroica coronata
Northern Mockingbird	Mimus polyglottos

Forested vetland area, including mature hardvoods and thick undcrgrovth mixed vith emergent vegetation such as cattails.

Pellov-bellied Sapsucker	Sphyrapicus varius
Brown Thrasher	Toxostoma rufum
Harsh Wren	Cistothorus palustris
American Goldfinch	Carduelis tristis
Prairie Uarbler	Dendroica discolor
Northern Flicker	Colaptes auratus
Cardinal	Cardinalis cardinalis
Bluejay	tta cristrta
Northern Wockingbird	Mimus polygl
Wood Thrush	Hyloci mustelina

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APPENDIX B

SURFACE EMISSIONS DATA

SITE 30 OVA READINGS

GRID COORDINATES X	Y	OVA READINGS (ppm)
4.2,	0.4	0
4.2,	0.5	0
5.3,	0.4	0
6.0,	0.0	0
6.2,	0.6	0
4.2,	1.3	100
5.3,	1.3	20
5.3,	1.6	19
7.1,	1.2	0
8.0,	1.8	0
9.5,	1.8	0
10.2,	1.8	0
13.8,	1.8	0
3.8,	2.0	0
13.0,	2.2	0
9.3,	2.3	0.2
9.9,	2.3	0.1
4.5,	2.5	0
10.6,	2.6	0
12.5,	2.5	0
15.0,	2.6	0
9.5,	2.7	0
4.0,	3.0	0
5.0,	3.0	0
5.4,	3.3	14
6.8,	3.5	0
8.3,	3.6	0
4.0,	3.8	0
5.4,	4.5	10
9.0,	4.3	0
10.3,	4.4	0
12.5,	4.9	0
4.9,	5.1	0
8.1,	5.1	0
9.2,	5.1	0
5.8,	5.3	25
8.4,	5.5	20
8.4,	5.8	1.0
6.5,	5.8	40
8.7,	5.9	0.2
7.5,	5.9	9.0
4.1,	6.0	0
0.6,	6.0	0
4.0,	6.3	0.3
4.8,	6.2	0
5.9,	6.2	0
8.7,	6.2	0
6.8,	6.7	8.0
4.5,	6.9	0.4

SITE 30 OVA READINGS

GRID COORDINATES X	Y	OVA READINGS (ppm)
0.2,	7.8	0
3.2,	c.5	0.3
2.1,	8.5	1.8
3.7,	8.2	0.5
6.5,	7.5	0.6
6.4.	7.6	0.9
9.1.	6.8	1.2
11.2,	7.1	0
0.7.	8.2	0
2.0,	9.3	3.8
7.4,	i.8	0.5
7.5,	7.8	0.7
6.9,	8.3	0.9
8.5,	8.5	1.0
8.2.	8.4	0.3
8.3,	L.3	U.4
8.2.	8.9	1.0
8.4.	9.0	0.7
8.1,	9.8	0.1
8.0,	10.0	0.1
7.9	10.2	0.1
7.a,	10.9	0
7.9,	10.9	0.1
9.0,	9.9	44
8.6.	10.t	0.1

APPENDIX C

En-31 DATA

SITE 30 EM-31 DATA

GRID COORDINATES X	Y	EM-31 (mmhos/m)
3.3,	0.0	15
2.8,	0.2	24
4.3,	0.8	14
5.3,	0.5	11.5
5.2,	0.4	21
6.2,	0.5	19
6.7,	0.5	1.5
7.4,	0.9	14
10.5,	0.5	10
12.2,	0.5	20.3
2.8,	1.0	8
2.0,	1.6	27
2.5,	1.0	34
3.5,	1.0	19
4.2,	1.9	13.5
5.3,	1.8	12
5.9,	1.8	12
6.3,	1.4	11.3
6.8,	1.5	8
7.3,	2.0	10.5
8.0,	1.7	10.5
8.7,	1.0	0
9.1,	1.7	18
9.7,	1.6	12
10.0,	1.1	[illegible]
10.2,	1.5	3.4
11.0,	1.5	7.0
11.5,	1.2	9.0
11.3,	1.8	0
11.2,	0.9	22
11.0,	1.1	38
12.1,	0.5	22
13.6,	1.0	7.5
2.4,	1.7	42
3.0,	2.3	17
4.8,	2.4	15
5.6,	2.5	15
6.3,	2.7	15
6.7,	2.0	12
7.2,	3.0	15
8.1,	3.0	21
8.3,	3.0	30
8.7,	2.1	(-)
8.4,	3.0	18
9.0,	3.0	15
8.6,	3.0	24
9.2,	2.1	12
9.3,	2.9	12
9.9,	2.1	15.5

SITE 30 EM-31 DATA

GRID COORDINATES X	Y	EM-31 (mmhos/m)
10.1,	2.7	9
10.5,	2.1	7.5
10.6,	2.9	18
11.2,	2.2	8.0
10.8,	2.0	40
12.2,	1.0	33
13.2,	2.1	8
13.5,	2.5	12.5
13.8,	2.2	9
13.9,	2.9	10
2.0,	3.1	30
2.8,	3.3	24
4.2,	3.4	12.5
5.0,	3.8	14.5
5.1,	3.3	14.5
6.1,	3.8	14.5
6.2,	3.4	15
7.0,	3.8	22
7.1,	4.0	30
6.8,	3.5	18
7.0,	3.9	18
7.3,	3.7	18
7.4,	3.4	16.5
7.5,	3.7	30
7.7,	3.6	(-)
7.5,	3.9	38
7.9,	3.1	32
7.9,	3.4	40
8.0,	3.6	45
8.1,	3.3	20
8.0,	3.9	18
8.2,	3.9	16
8.4,	3.7	12
8.8,	3.3	12
8.8,	3.6	12
9.1,	3.9	9
9.4,	3.0	10
9.8,	3.8	17
10.4,	3.2	12
10.2,	2.0	36
11.7,	3.7	14.5
11.6,	3.1	13
12.2,	3.3	15
12.6,	3.1	2.5
13.4,	3.1	10
14.5,	3.5	14.5
3.3,	4.0	11
3.2,	4.7	17
3.0,	5.0	54

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SITE 30 EM-31 DATA

GRID COORDINATES X	Y	EM-31 (mmhos/m)
4.2,	4.5	10
4.2,	4.9	11
4.6,	4.3	12
4.7,	4.8	1:
5.0,	3.6	11
5.6,	4.2	14
5.7,	4.8	14
5.8,	4.7	15
6.0,	4.5	18
6.1,	4.2	18
6.2,	4.6	18
6.2,	3.0	11.3
6.5,	4.1	(-)
6.5,	4.2	52
6.5,	4.5	82
6.5,	4.7	40
6.4,	5.0	(-)
6.7,	3.2	80
6.9,	4.5	20
7.0,	4.2	11
7.1,	4.6	17
7.3,	4.8	15
7.4,	4.2	15
7.6,	5.0	10
7.8,	4.9	10
7.8,	4.3	12
8.4,	4.3	12
8.8,	4.1	10
8.9,	4.9	11
9.0,	5.0	20
9.3,	4.7	(-)
9.6,	4.3	20
9.6,	4.9	10
9.8,	4.7	9.5
10.2,	4.6	53
11.5,	4.6	18
11.8,	4.9	19
12.1,	4.2	13
12.6,	4.0	12
13.3,	4.1	15
13.5,	4.8	13
14.0,	4.2	-
14.2,	4.5	17
14.5,	4.2	-
14.7,	4.9	16.5
2.2,	6.2	60
3.3,	5.5	7.5
3.1,	6.3	85
4.0,	6.5	44

SITE 30 EM-31 DATA

GRID COORDINATES X	Y	EM-31 (mmhos/m)
5.2,	5.1	11
5.7,	5.4	12
6.0,	5.6	14
5.8,	6.0	11.5
6.2,	5.8	18
6.4,	5.4	(-)
4.8,	6.4	34
4.8,	6.5	28
6.8,	5.7	12
7.0,	5.9	12
7.2,	5.2	12
7.3,	5.9	11
7.4,	5.7	2
7.6,	5.6	(-)
7.5,	5.4	10.5
7.9,	5.2	12.5
7.8,	5.5	13
7.7,	5.7	15
7.7,	5.8	(-)
8.3,	5.6	20
8.4,	5.8	20
8.7,	5.7	11
8.7,	5.3	2
8.8,	5.3	15
9.2,	5.1	12
9.3,	6.3	88
10.3,	5.9	32
11.7,	5.6	18.5
12.[illegible],	5.5	[illegible]5
6.2,	6.0	45
6.3,	7.5	50
6.6,	7.[illegible]	40
1.2,	8.[illegible]	58
2.2,	6.2	0
3.3,	6.1	3.5
3.6,	7.0	15
3.4,	6.6	30
4.5,	6.4	52
5.0,	7.0	27
4.9,	6.8	14
5.0,	6.0	19
5.4,	6.4	30
6.5,	7.0	100
6.6,	6.7	75
6.7,	6.1	14
6.6,	6.8	11
7.1,	6.6	11.5
7.3,	6.[illegible]	10
7.5,	6.6	10

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SITE 30 EM-31 DATA

GRID COORDINATES X	Y	EM-31 (mmhos/m)
7.8,	6.4	11
7.9,	6.2	(-)
8.1,	6.6	(-)
8.2.	6.9	(-)
8.1,	6.1	12
8.3,	6.6	12
8.5,	6.8	12
8.3.	6.3	5
8.6,	6.1	15
8.7.	6.3	12
9.0.	6.0	44
8.6,	6.2	43
10.4,	5.9	25
11.0,	6.8	11.5
11.8.	6.6	10
2.4,	7.7	0
2.5,	7.5	(-)
2.8.	7.2	0
4.7.	7.7	38
5.1,	7.2	22
6.2,	7.4	50
6.5,	6.7	22
6.7.	7.2	100
7.0,	7.3	23
7.0,	7.6	53
7.4,	7.0	22
7.6,	7.1	9
7.5,	7.6	105
7.8,	7.2	12
7.9,	8.0	14
8.1.	7.8	38
8.3.	7.6	18
8.2.	7.3	12
8.3,	7.2	1
8.6,	7.1	12
8.2.	7.2	25
8.9,	7.8	18
9.0.	7.0	35
10.0,	7.8	14
11.2,	7.9	8
1.6,	8.0	180
7.7,	7.6	72
8.0,	8.5	50
8.3,	8.0	44
9.5,	8.2	35
9.7.	8.1	30
10.4,	8.5	11
10.5,	8.1	14
8.5,	9.0	125

SITE 30 EM-31 DATA

GRID COORDINATES X Y	EM-31 (mmhos/m)
9.4, 10.7	32
7.4, Y.9	68
8.2, 10.5	54
3.0, 10.9	92
7.5, 11.1	30
8.0, 11.2	84

APPENDIX D

METAL DETECTOR DATA

POSITIVE METAL DETECTOR READINGS
SITE 30

GRID COORDINATES X	Y	METAL DETECTOR (YES/NO)
4.6,	0.9	Y
3.3,	2.0	Y
4.7,	1.6	Y
6.3,	1.7	Y
8.6,	1.8	Y
9.1,	3.2	Y
9.2,	2.1	Y
9.7,	1.7	Y
10.2,	1.1	Y
10.3,	0.9	Y
2.1,	2.8	Y
2.0,	2.9	Y
2.0,	2.1	Y
2.0,	3.8	Y
2.0,	4.2	Y
2.1,	4.4	Y
8.9,	3.4	Y
8.8,	3.9	Y
9.5,	4.9	Y
8.3,	5.1	Y
9.0,	5.1	Y
8.4,	5.2	Y
9.2,	5.3	Y
8.4,	5.0	Y
[illegible].1,	6.0	Y
9.0,	6.1	Y
9.9,	6.4	Y
8.6,	[illegible]	Y
8.7,	[illegible]	Y
8.5,	[illegible]	Y
8.4,	[illegible]	Y
8.3,	7.[illegible]	Y
[illegible].1,	8.1	Y
8.0,	8.2	Y
7.7,	8.0	Y
7.8,	6.0	Y
8.0,	6.2	Y
8.2,	6.7	Y
8.3,	7.1	Y
8.3,	[illegible]	Y
5.8,	7.[illegible]	Y
5.5,	7.4	Y
5.7,	7.2	Y
6.0,	7.2	Y
6.1,	7.0	Y
5.0,	7.0	Y
0.7,	7.0	Y
0.8,	7.1	Y

POSITIVE METAL DETECTOR READINGS
SITE 30

GRID COORDINATES X	Y	METAL DETECTOR (YES/NO)
1.0,	7.1	Y
1.4,	6.8	Y
1.7,	6.7	Y
1.9,	6.6	Y
2.2,	6.7	Y
2.5,	6.8	Y
2.7,	6.8	Y
2.5,	6.5	Y
3.1,	6.4	Y
2.3,	7.8	Y
2.2,	8.0	Y
2.5,	8.0	Y
2.7,	8.0	Y
2.3,	8.3	Y
2.5,	8.3	Y
1.9,	9.6	Y
2.0,	9.4	Y
2.3,	9.2	Y

APPENDIX E

TEMPORARY MONITORING WELL, SOIL BORING, AND LITHOLOGIC INFORMATION

SOIL BORING/TEMPORARY HONITORING WELL INFORHATION

1) Site no.: 30
2) Boring no./Well no.: P30B001
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: *01/04/91*
6) Geologist: A. Twitty
7) Depth of boring (BLS): 25.0
8) Depth to water in borehole (BLS): 24.0
9) Highest open-borehole OVA/HnU reading (ppm): *40*
10) Depth of well (BLS): NA
11) Length of well screen: NA
12) Length of casing (BLS): NA
13) Aprox. height of casing above land surface: NA
14) Depth to water in well (BTOC): NA
15) Elevation of TOC: NA
16) Water level elevation: NA
17) Date groundwater sampled: / /
18) pH (units): NA
19) Temperature (degrees C)! NA
20) Specific conductance (umhos/cm): NA
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

BOREHOLE LITEOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-1	Asphalt, concrete, some silty (20%) sandy dark brown fill dirt, more concrete.
1-6	Sand, moderate yellow brovn, fine to medium grained, <10% silt.
6-16	Sand, light yellow brown, fine to medium grained.
16-18	Clayey silty sand (20%,20%,60%), black to dark gray, organic odor noted.
18-25	Sand, light gray to white, medium grained. Water at 24 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
SSA = solid stem auger
HA = hand auger

BLS = below land surface
TOC = top of casing
BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

1) Site no.: 30
2) Boring no./Well no.: P30B002/P30TW002
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 01/05/91
6) Geologist: A. Twitty
7) Depth of boring (BLS): 23.0
8) Depth to vater in borehole (BLS): 19.0
9) Highest open-borehole OVA/HnU reading (ppm): 0
10) Depth of vell (BLS): 21.7
11) Length of vell screen: 5
12) Length of casing (BLS): 16.66
13) Aprox. height of casing above land surface: 3.34
14) Depth to water in vell (BTOC): 20.64
15) Elevation of TOC: 29.53
16) Water level elevation: 8.89
17) Date groundvater sampled: 01/08/91
18) pH (units): 6.10
19) Temperature (degrees C): 24.1
20) Specific conductance (umhos/cm): 170
21) Borehole/Well abandonment method: Backfilled vith cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sam le Depth (BLS)	Sample Description
60.2	Asphalt.
0.2-0.5	Silty sand, dark reddish brown, fine to medium grained fill dirt.
0.5-8	Silty sand (10-15% silt), moderate yellov brovn, fine to medium grained.
8-12	Sand, <10% silt, light yellov brown, damp.
12-14	*Sand,* light gray, fine to medium grained.
14-20	Sand, medium gray, medium to coarse grained. Organic odor water at 19 it.
20-23	Sand, white to light gray, medium grained, vet.

Notes: All depths, lengths, heights, and elevati ns are measured in feet. All boreholes are 4 inches in diameter. $1 well casings and screens are 2-inch-diameter; well screen slot s zes are .010 inches. No annular material (i.e. filter pack, sea | or grout) was used in well installation. Unless otherwise noted, am1 sand grains are quartz.

NA = not applicable
SSA = solid stem auger
HA = hand auger

BLS = below land surface
TOC = top of casing
BTOC = below top of casing

SOIL BORING/TEMPORARY HONITORING WELL INFORMATION

1) Site no.: 30
2) Boring no./Well no.: P30B003
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 01/04/91
6) Geologist: A. Tvitty
7) Depth of boring (BLS): 20.0
8) Depth to water in borehole (BLS): 19.0
9) Highest open-borehole OVA/HnU reading (ppm): 0
10) Depth of well (BLS): NA
11) Length of well screen: NA
12) Length of casing (BLS): NA
13) Aprox. height of casing above land surface: NA
14) Depth to water in well (BTOC): NA
15) Elevation of TOC: NA
16) Water level elevation: NA
17) Date groundwater sampled: / /
18) pH (units): NA
19) Temperature (degrees C): NA
20) Specific conductance (umhos/cm): NA
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.1	Asphalt.
0.1-1	Slightly silty sand, dark reddish brown, damp.
1-3	Sand, moderate brown, fine to medium grained.
3-10	Sand, moderate yellow brown, fine to medium grained.
10-13	Sand, light yellow brown, fine to medium grained.
13-18	Sand, very light yellow to white, fine to medium grained.
18-20	Sand, white fine to medium grained. Organic odor from 18 to 10 ft. bet at 19 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
SSA = solid stem auger
HA = hand auger

BLS = below land surface
TOC = top of casing
BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

1) Site no.: 30
2) Boring no./Well no.: P30B004
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 01/04/91
6) Geologist: A. Twitty
7) Depth of boring (BLS): 25.0
8) Depth to vater in borehole (BLS): 23.0
9) Highest open-borehole OVA/HnU reading (ppm): 3
10) Depth of vell (BLS): NA
11) Length of vell screen: NA
12) Length of casing (BLS): NA
13) Aprox. height of casing above land surface: NA
14) Depth to water in vell (BTOC): NA
15) Elevation of TOC: NA
16) Water level elevation: NA
17) Date groundvater sampled: / /
18) pH (units): NA
19) Temperature (degrees C): NA
20) Specific conductance (umhos/cm): NA
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.2	Asphalt.
0.2-2	Silty sand (20%,80%), dark reddish brown, damp.
2-3	Sand, moderate yellov brown, fine to medium grained.
3-10	Sand becomes *very* dry.
10-15	Sand becomes slightly damp.
15-23	Sand, light gray and white, medium grained, mist at 18 to 20 ft.
23-25	Sand becomes vet. Water table at 23 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All vell casings and screens are 2-inch-diameter; vell screen slot sires are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in vell installation. Unless othervise noted, all sand grains are quartz.

NA = not applicable
SSA = solid stem auger
HA = hand auger

BLS = belov land surface
TOC = top of casing
BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORHATION

1) Site no.: 30
2) Boring no./Well no.: P30B005/P30TW005
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 01/05/91
6) Geologist: A. Twitty
7) Depth of boring (BLS): 19.0
8) Depth to water in borehole (BLS): 12.5
9) Highest open-borehole OVA/HnU reading (ppm): 0
10) Depth of well (BLS): 15.9
11) Length of well screen: 5
12) Length of casing (BLS): 10.92
13) Aprox. height of casing above land surface: 4.08
14) Depth to water in well (BTOC): 15.71
15) Elevation of TOC: 22.37
16) Water level elevation: 6.66
17) Date groundwater sampled: 01/08/91
18) pH (units): 6.14
19) Temperature (degrees C): 22.4
20) Specific conductance (umhos/cm): 253
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.2	Asphalt.
0.2-0.6	Silty sand (20%,80%), dark brown, fine to medium grained, damp, with some small pebbles.
0.6-7	Sand, <10% silt, moderate yellow brown, fine to medium grained.
7-10	Sand, grayish brown, fine to medium grained.
10-19	Sand, light gray to white, medium grained. Water at 12.5 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) vas used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
SSA = solid stem auger
HA = hand auger

BLS = below land surface
TOC = top of casing
BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

1) Site no.: 30
2) Boring no./Well no.: P30B006
3) Drilling firm: Griner Drilling Service
4) Drilling method: HA
5) Date drilled/installed: 01/04/91
6) Geologist: A. Tvitty
7) Depth of boring (BLS): 25.0
8) Depth to water in borehole (BLS): 25.0
9) Highest open-botchole OVA/HnU reading (ppm): 0
10) Depth of vell (BLS): NA
11) Length of well screen: NA
12) Length of casing (BLS): NA
13) Aprox. height of casing above land surface: NA
14) Depth to water in well (BTOC): NA
15) Elevation of TOC: NA
16) Water level elevation: NA
17) Date groundvatcr sampled: / /
18) pH (units): NA
19) Temperature (degrees C): NA
20) Specific conductance (umhos/cm): NA
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.3	Sand, dark brown, fine to medium grained.
0.3-14.S	Sand, medium brovn to moderate yellov brovn, fine to medium grained vith pebbles and concrete fragments to 5 ft.
14.5-15	Sand becomes light yellov brown vith some shells and pebbles.
15-19	Sand, white to light yellov brown, fine to medium grained. No pebbles.
19-21	Sand, light gray-brown to moderate gray.
21-23	Surd, light gray to white, medium grained, moist.
23-25	Sand, *very* light gray, medium to coarse grained. Wet at 25 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; vell screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
SSA = solid stem auger
EA -hand auger

BLS = below land surface
TOC = top of casing
BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMTION

1) Site no.: 30
2) Boring no./Well no.: P30B007/P30TW007
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 01/05/91
6) Geologist: A. Twitty
7) Depth of boring (BLS): 30.0
8) Depth to water in borehole (BLS): 25.0
9) Highest open-borehole OVA/HnU reading (ppm): 0
10) Depth of well (BLS): 24.9
11) Length of well screen: 5
12) Length of casing (BLS): 19.90
13) Aprox. height of casing above land surface: 5.10
14) Depth to water in well (BTOC): 25.88
15) Elevation of TOC: 33.03
16) Water level elevation: 7.15
17) Date groundwater sampled: 01/08/91
18) pH (units): 6.03
19) Temperature (degrees C): 23.2
20) Specific conductance (umhos/cm): 188
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.1	Grass
0.1-3	Silty sand,(10-20% silt), medium brown, fine to medium grained.
3-10	Sand, moderate yellow brown, fine to medium grained, damp.
10-15	Sand, light yellov brown, fine to medium grained, damp.
15-30	Sand, light gray to white, fine to medium grained. Becomes wet at 25 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
SSA = solid stem auger
HA = hand auger

BLS = below land surface
TOC = top of casing
BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

1) Site no.: 30
2) Boring no./Well no.: P30B008/P30TW008
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 01/05/91
6) Geologist: A. Twitty
7) Depth of boring (BLS): 14.0
8) Depth to water in borehole (BLS): 10.5
9) Highest open-borehole OVA/HnU reading (ppm): 0
10) Depth of well (BLS): 12.5
11) Length of well screen: 5
12) Length of casing (BLS): 7.52
13) Aprox. height of casing above land surface: 2.98
14) Depth to vater in well (BTOC): 11.82
15) Elevation of TOC: 15.54
16) Water level elevation: 3.72
17) Date groundvater sampled: 01/08/91
18) pH (units): 6.24
19) Temperature (degrees C): 20.4
20) Specific conductance (umhos/cm): 177
21) Borehole/Well abandonment method: Backfilled vith cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.2	Leaves, peat, sull roots.
0.2-0.5	Sand, black and light gray, fine to medium grained, damp, some small roots.
0.5-4	Sand, moderate yellov brown, fine to medium grained, dry.
4-9	Sand, light yellow brown and white, fine to medium grained.
9-14	Sand becomes medium to coarse grained. Water at 10.5 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
SSA = solid stem auger
EA = hand auger

BLS = below land surface
TOC = top of casing
BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING VELL INFORMATION

1) Site no.: 30
2) Boring no./Well no.: P30B009
3) Drilling firm: Griner Drilling Service
4) Drilling method: EA
5) Date drilled/installed: 01/03/91
6) Geologist: A. Twitty
7) Depth of boring (BLS): 5.0
8) Depth to water in borehole (BLS): 4.5
9) Highest open-borehole OVA/HnU reading (ppm): 13
10) Depth of well (BLS): NA
11) Length of well screen: NA
12) Length of casing (BLS): NA
13) Aprox. height of casing above land surface: NA
14) Depth to water in well (BTOC): NA
15) Elevation of TOC: NA
16) Water level elevation: NA
17) Date groundwater sampled: / /
18) pH (units): NA
19) Temperature (degrees C): NA
20) Specific conductance (umhos/cm): NA
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.6	Sand with little to no fines, dark medium brown, fine to medium grained. Small roots, moist.
0.6-2.5	Sand, light brown to tan, fine to medium grained, dry, with fewer roots.
2.5-3	Sand, gray, fine to medium grained.
3-3.5	Sand, light gray to vhitc, medium grained, damp.
3.5-4	Sand, dark brown, medium grained.
4-4.5	Sand, light brown to tan, medium vith some fine grains.
4.5-5	Sand becomes coarser grained, vet. Water at 4.5 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
SSA = solid stem auger
HA = hand auger

BLS = belov land surface
TOC = top of casing
BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

1) Site no.: 30
2) Boring no./Well no.: P30B010/P30TW010
3) Drilling firm: Griner Drilling Service
4) Drilling method: EA
5) Date drilled/installed: 01/04/91
6) Geologist: A. Twitty
7) Depth of boring (BLS): 8.5
8) Depth to water in borehole (BLS): *4.0*
9) Highest open-borehole OVA/HnU reading (ppm): 6
10) Depth of well (BLS): 6.2
11) Length of well screen: 5
12) Length of casing (BLS): 1.20
13) Aprox. height of casing above land surface: 3.80
14) Depth to water in well (BTOC): 6.43
15) Elevation of TOC: 13.75
16) Water level elevatiop: 7.32
17) Date groundwater sampled: 01/09/91
18) pH (units): 5.43
19) Temperature (degrees C): 21.8
20) Specific conductance (umhos/cm): 107
21) Borehole/Well abandonment method: Backfilled vith cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.2	Leaves, peat, small roots.
0.2-1	Sand, medium gray, fine to medium grained, damp.
1-4	Sand, dark gray, fine to medium grained, moist.
4-6	Sand, light gray to white, vet at 4 ft. Boring collapsed at 6 ft. The well was pounded in to 8.5 ft.

Notes: All depths, lengths, heights, and elevations ar measured in feet. All boreholes are 4 inches in diameter. All vel casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
SSA = solid stem auger
HA = hand auger

BLS = belov land surface
TOC = top of casing
BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

1) Site no.: 30
2) Boring no./Well no.: P30B011
3) Drilling firm: Griner Drilling Service
4) Drilling method: EA
5) Date drilled/installed: 01/03/91
6) Geologist: A. Twitty
7) Depth of boring (BLS): 5.0
8) Depth to water in borehole (BLS): 3.5
9) Highest open-borehole OVA/HnU reading (ppm): 0
10) Depth of well (BLS): NA
11) Length of well screen: NA
12) Length of casing (BLS): NA
13) Aprox. height of casing above land surface: NA
14) Depth to water in well (BTOC): NA
15) Elevation of TOC: NA
16) Water level elevation: NA
17) Date groundwater sampled: / /
18) pH (units): NA
19) Temperature (degrees C): NA
20) Specific conductance (umhos/cm): NA
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.3	Sand, dark brown, fine to medium grained, small roots.
0.3-3.5	Sand, light gray and tan, medium grained, becomes dark gray.
3.5-5	Sand, dark gray, medium to coarse grained. Vet at 3.5 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
SSA = solid stem auger
HA = hand auger

BLS = belov land surface
TOC = top of casing
BTOC = below top of casing

APPENDIX F

STREAM FLOW MEASUREMENT DATA

Stream Flow Measurements
Site 30

Low Tide

Station 1

Length: 15 feet
Width: 19.3 feel
Average Depth: 1.0 feet
Travel Time: 33 seconds
Date: 2-9-91
Time: 0820

Station 2

Length: 12.0 feet
Width: 9.5 feet
Average Depth: 0.83 feet
Travel Time: 16 seconds
Date: 2-9-91
Time: 0840

Station 3

Length: 15 feet
Width: 5 feet
Average Depth: 1.17 feet
Travel Time: 18 seconds
Date: 2-9-91
Time: 0845

High Tide

Station 1

Length: 15 feel
Width: 20 feet
Average Depth: 2.0 feet
Travel Time: 54 seconds
Date: 2-21-91
Time: 1540

Station 2

Length: 15 feet
Width: 9.0 feet
Average Deplh: 1.0 feel
Travel Time: 18 seconds
Date: 2-21-91
Time: 1550

Station 3

Length: 15 feet
Width: 4 feet
Average Depth: 1.0 feet
Travel Time: 33 seconds
Date: 2-21-91
Time: 1355

APPENDIX G

SURFACE VATKR SAMPLING ANALYTICAL SCREENING RESULTS

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : BE-91-02224 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW021

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9100.256

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(A)pyrene	Blank	ND	10	0.6	86

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9100.291

(ug)

Parameter	E & E Laboratory No. 93- Batch QC	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(A)pyrene		ND	50	27	54

3000409

TEST CODE :WPNPAH1 JOB NUMBER :9100.291

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		loo

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPHL1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02366 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW002

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000410

TEST CODB :WPNPHL1 JOB NUMBER :9100.276

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UE-6000 NASP PEASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02367 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW003

PARAMETER	RESULTS	Q	DBT. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = BSTIMTIBD VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATSD DETECTION LXHIT

TEST CODE :WPNPHLL JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02368 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW004

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000411

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02458 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW006

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02459 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW007

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND	-	100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000412

TEST CODB :WPNPHL1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
TEST : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : BB-91-02369 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW008

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		loo

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :VPNPHL1 JOB NUMBER t9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02370 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW010

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND	-	100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000413

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02371 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW010DUP

PARAMETER	RESULTS	Q	DBT. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :VPNPHL1 JOB NUMBER :9100.291

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02460 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW011

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000414

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02372 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW012

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = CO ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02222 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW014

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : BE-91-02223 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW017

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02224 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW021

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND	-	100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPHL1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9100.291

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Trichlorophenol	2458	ND	50	53.5	107

3000417

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPRG1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-02366 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW002

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000418

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : BE-91-02367 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW003

PARAMETER	RESULTS	Q	DBT. LIMIT
Benzene	ND		lo
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :VPNPRG1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-8
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-02368 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW004

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000410

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-02458 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW006

PARAMETER	RESULTS	Q	DBT. LIMIT
Benzene	ND		10
Toluene	ND		10
Bthylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPRG1 JOB NUMBER t9100.291

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-02459 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW007

PARAMETER	RESULTS	a	DET. LIMIT
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1 p 2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000420

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-02369 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW008

PARAMETER	RESULTS	Q	DBT. LIMIT
Benzene	ND		lo
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
111 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPRG1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-02370 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW010

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
12 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000421

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-02371 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW010DUP

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPRG1 JOB NUMBER :9100.291

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-02460 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW011

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000422

TEST CODE :WPNPRG1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : BE-9142372 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW012

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		10
Toluene	ND		10
Bthylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethane	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-02222 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW014

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	16		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPRG1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	PRESENT	L	10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPRG1 JOB NUMBER :9100.291

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		lo
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-02366 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW002

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	71		69	UG/L
Chromium	52		10	UG/L
Zinc	100		20	UG/L
had	ND		40	UG/L
cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-02367 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW003

P ———	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	110		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000426

JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-02368 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW004

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	120		69	UG/L
Chromium	ND		10	UG/L
Zinc	110		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-02458 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW006

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	150		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
SAMPLE ID LAB :EE-91-02459 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW007

P	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	60		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-02369 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW008

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	150		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-02370 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW010

PARAMETER	RESULTS	Q	DET. LIHIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	40		20	UGIL
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
3 = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DBTBCTION LIMIT

JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-02371 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW010DUP

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	39		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000420

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-02460 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW011

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	65		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-02372 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW012

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	140		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	130		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
SAMPLE ID LAB :EE-91-02222 MATRIX: WATER
SAMPLE ID CLIENT: P30-SU014

PARAMETER	RESULTS	Q	DBT. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	270		20	UG/L
Lead	ND		40	UG/L
cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-02223 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW017

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	110		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000431

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-02224 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW021

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	280		20	UG/L
Lead	ND		40	UG/L
cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		2s	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

QUALITY CONTROL ?OR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF WATER SAMPLES

9100.276

(ug/L)

Parameter	E & E Laboratory No. 91-02368	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		120	ND	NC
Chromium		ND	ND	NC
Zinc		110	110	0
Lead		ND	ND	NC
cadmium		ND	ND	NC
Nickel		ND	ND	NC
Copper		ND	ND	NC
Silver		ND	ND	NC

3000432

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9100.276

(ug/L)

Parametar	E & E Laboratory No. 91-02368	Original Value	Amount Added	Amount Determined	Percmt Recovery
Arsenic		120	2000	1900	89
Chromium		ND	200	190	95
Zinc		110	500	620	102
Lead		ND	500	490	98
Cadmium		ND	50	46	92
Nickel		ND	500	500	100
Copper		ND	250	250	100
Silver		ND	50	48	96

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	ND		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF WATER SAMPLES

9100.256

(ug/L)

Parameter	E & E Laboratory No. 91-02223	Original Analysis	Replicata Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	NC
Cadmium		ND	ND	NC
Chromium		ND	ND	NC
Copper		ND	ND	NC
Lead		ND	ND	NC
Nickel		ND	ND	NC
Silver		ND	ND	NC
Zinc		110	130	17

NC = Not calculable

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY FOR SPIKED WATER SAMPLES

9100.256

(ug/L)

Parameter	E & E Laboratory No. 91-02223	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	2000	2000	100
Cadmium		ND	50	47	94
Chromium		ND	200	210	105
Copper		ND	250	260	104
Lead		ND	500	530	106
Nickel		ND	500	490	98
Silver		ND	50	47	94
Zinc		110	500	640	106

JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	ND		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF WATER SAMPLES

9100.256

(ug/L)

Parametar	B & B Laboratory No. 91-02223	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	Nc
Cadmium		ND	ND	NC
Chromium		ND	ND	NC
Copper		ND	ND	Nc
Lead		ND	ND	Nc
Nickel		ND	ND	NC
Silver		ND	ND	NC
Zinc		110	130	17

NC = Not calculable

3000435

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED VATBR SAMPLES

9100.256

(ug/L)

Parameter	E & E Laboratory No. 91-02223	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	2000	2000	100
Cadmium		ND	50	47	94
Chromium		ND	200	210	105
Copper		ND	250	260	104
Lead		ND	500	530	106
Nickel		ND	500	490	98
Silver		ND	50	47	94
Zinc		110	500	640	106

JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	a	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	ND		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	ND		20	UG/L
Lead	ND		40	UG/L
cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology urd Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC TRPH UNITS : MG/L
PARAMETER : TRPH

SAMPLE ID	RESULTS	Q	DET. LIMIT
EE-91-02366 P30-SW002	ND		1.0
EE-91-02367 P30-SW003	ND		1.0
EE-91-02368 P30-SW004	ND		1.0
EE-91-02369 P30-SW008	ND		1.0
EE-91-02370 P30-SW010	ND		1.0
EE-91-02371 P30-SW010DUP	ND		1.0
EE-91-02372 P30-SW012	ND		1.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

TEST CODE :WPNTPH1 JOB NUMBER :9100.291

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROWS A-E
TEST NAME : PNC TRPH UNITS : MG/L
PARAMETER : TRPH

SAMPLE ID	RESULTS	Q	DET. LIMIT
BE-91-02458			
P30-SW006	ND		1.0
EE-91-02459			
P30-SW007	ND		1.0
EE-91-02460			
P30-SW011	ND		1.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DBTECTION LIMIT
NA = NOT APPLICABLE

TEST CODE :WPNTPH1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC TRPH UNITS : MG/L
PARAMETER : TRPH

SAMPLE ID	RESULTS	Q	DET. LIMIT
EE-91-02222 P30-SW014	ND		1.0
EE-91-02223 P30-SW017	ND		1.0
EE-91-02224 P30-SW021	ND		1.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC TRPH UNITS : MG/L
PARAMETER : TRPH

SAMPLE ID	RESULTS	Q	DET. LIMIT
M O D BLANK	ND		1.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

TEST CODE :VPNP&P1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-02366 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW002

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000433

TEST CODE :WPNPEPI JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : BE-31-02367 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW003

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDB	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNP&P1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-02368 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW004

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
494 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

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Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : BE-91-02458 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW006

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-02459 MATRIX: WATER
SAMPLE ID CLI[redacted] P30-SW007

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		3.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPGP1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-B
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-02369 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW008

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDB	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :VPNP&P1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-02370 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW010

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000442

TEST CODE :WPNP&P1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : BE-91-02311 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW010DUP

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :VPNP&P1 JOB NUMBER :9100.291

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-02460 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW011

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDB	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : WPNP&P1 JOB NUMBER : 9100.276

Ecology and Environment, Inc.
Analytical Services Canter

CLIENT : UH-6000 NASP PHASE I *GROUPS* A-B
TEST NAME : PNC PEST-/PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-02372 MATRIX: VATBR
SAMPLE ID CLIENT: P30-SW012

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDB	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = CON — ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNP&P1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-02222 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW014

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-02223 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW017

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

TEST CODE :WPNP&P1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-02224 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW021

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000445

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF WATER MATRIX SPIKE
(Sample # 2372)

9100.276

(ug/L)

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
Lindane	ND	2.0	2.1	105
Heptachlor	ND	2.0	2.0	100
Aldrin	ND	2.0	2.0	100
Dieldrin	ND	5.0	5.3	106
Endrin	ND	5.0	5.0	100
4.4' -DDT	ND	5.0	4.4	88

TEST CODE :VPNP&P1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000446

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY OF WATER MATRIX SPIKE (MS)
(Sample # 2224)

9100.256

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
Lindane	ND	2.0	2.0	100
Heptachlor	ND	2.0	1.9	95
Aldrin	ND	2.0	1.9	95
Dieldrin	ND	5.0	5.1	102
Endrin	ND	5.0	5.1	102
4,4'-DDT	ND	5.0	5.2	104
Aroclor 1254	ND	5.0	5.5	110

TEST CODE : WPNP&P1 JOB NUMBER : 9100.256

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5m0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY OF WATER MATRIX SPIKE (MS)
(Sample # 2458)

9100.291

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
Lindane	ND	2.0	2.3	115
Heptachlor	ND	2.0	1.9	95
Aldrin	ND	2.0	1.9	95
Dieldrin	ND	5.0	5.6	112
Endrin	ND	5.0	5.3	106
4,4'-DDT	ND	5.0	4.0	80

TEST CODE :WPNP&P1 JOB NUMBER :9100.291

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000448

TEST CODE :WPNPAH1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : BE-9162366 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW002

PARAMETER	RESULTS	Q	DBT. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DBTBCTION LIMIT

TEST CODE :WPNPAH1 JOB NUMBER 89100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02367 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW003

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000440

TEST CODE :WPNPAH1 JOB NUMBER :9100.276

Bcolagy and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAR - LC UNITS : UG/L
SAMPLE ID LAB : BE-91-02368 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW004

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02458 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW006

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAH - LC , UNITS : UG/L
SAMPLE ID LAB : EE-91-02459 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW007

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :VPNPAH1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02369 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW008

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000451

TEST CODE :WPNPAH1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT t UH-6000 NASP PHASE I GROUPS A-K
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : BE-91-02370 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW010

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIPIBRS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPAH1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02371 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW010DUP

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3900452

TEST CODE :WPNPAH1 JOB NUMBER :9100.291

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAB - LC UNITS : UG/L
SAMPLE ID LAB : BE-91-02460 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW011

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

TEST CODE :WPNPAH1 JOB NUMBER t9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02372 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW012

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000453

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02222 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW014

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOU STATED DETECTION LIHIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-02223 MATRIX: WATER
SAMPLE ID CLIENT: P30-SW017

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000454

APPENDIX H

SEDIMENT SAMPLING ANALYTICAL SCREENING RESULTS

H E H O R A N D U H

TO: John Barksdale

FROM: Gary Hahn

DATE: February 26, 1991

SUBJECT: UH-6000 Pensacola Report

REF: 9100.276

CC: Lab File

Attached is the laboratory report of the analysis conducted on nineteen samples received at the Analytical Services Center on February 9, 1991. Analysis was performed according to the screening procedures set forth in 'Generic Quality Assurance Project Plan, Contamination Assessments and Remedial Activities, Naval Air Station Pensacola, Pensacola, Florida," July 1990.

All samples on which this report is based will be retained by E 6 E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Ga:tms
enclosure

M E M O R A N D U M

TO: John Barksdale

FROM: Gary Hahn

DATE: February 27, 1991

SUBJECT: UH-6000 Pensacola Report

REF: 9100.256

CC: Lab File

Attached is the laboratory report of the analysis conducted on twelve samples received at the Analytical Services Center on February 7, 1991. Analysis was performed according to the screening procedures set forth in "Generic Quality Assurance Project Plan, Contamination Assessments and Remedial Activities, Naval Air Station Pensacola, Pensacola, Florida," July 1990.

All samples on which this report is based rill be retained by B & B for a period of 30 days from the data of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a story. fee of $1.00 p u sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH:tms
enclosure

3000456

MEMORANDUM

TO: John Barksdale

FROM: Gary Hahn

DATE: February 27, 1991

SUBJECT: UH-6000 Pensacola Report

REF: 9100.291

CC: Lab Pile

Attached is the laboratory report of the analysis conducted on three samples received at the Analytical Services Center on February 12, 1991. Analysis was performed according to the screening procedures set forth in "Generic Quality Assurance Project Plan, Contamination Assessments and Remedial Activities, Naval Air Station Pensacola, Pensacola, Florida," July 1990.

All samples on vhich this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, vith such charges accruing until destruction of the samples is authorized by the client.

GH:tms
enclosure

3000457

ecology and environment, inc.
200 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

Analyze all parameters according to Site Specific QAP for this project (see Jack Miller)

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.: UH4050
Project Name: NAST Phase I A-E
Project Manager: J. Barkdale
Samplers: (Signature) George Edward Pike
Field Team Leader: Dave Foss

	STATION NUMBER	DATE 1991	TIME	SAMPLE TYPE Soil	Water	Air	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening VOCs	Screening Phenols	Screening PARs	Screening Pesticides + PCBs	AIBOT	Screening Metals	REMARKS
P30	SW010	2/7	1630		X		Low Level	Sur. 010 - Site 30	5	X	X	X	X	X	X	VOCs preserved with HCl
P30	SW010D	2/7	1630		X		"	" 010 dup - "	5	X	X	X	X	X	X	Metals preserved w/ HNO_3
P30	SW008	2/7	1630		X		"	" 008 - " "	5	X	X	X	X	X	X	TCN, I preserved w/ H_2SO_4
P30	SW012	2/7	1600		X		"	" 012 - " "	5	X	X	X	X	X	X	
P30	SW003	2/7	1200		X		"	" 003 - " "	5	X	X	X	X	X	X	Ig Number: Lot# X019 B033
P30	SW002	2/7	1100		X		"	" 002 - " "	5	X	X	X	X	X	X	QC# X0607C
P125	D001	2/8	0100	X			See Job# 91001.275									Icumber: Lot# T22 3013
									3							QC# T282C
P125	D001-D	2/8	0100	X												Ig c poly: Lot# 0304013
									3							QC# 0889C
																VOAs: Lot# B020703
																B12/9C

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B. Cullure	2/8/1900					Fed. Ex.
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	
Received By: (Signature)	Date/Time: 2/9/91 1030	Received for Laboratory By: (Signature) X. Bens	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	BL/Airbill Number: 9564602935 Date: 2/8/91

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3300459

Analyze all parameters according to Site Specific QAP for this project (see Jack Miller)

ecology and environment, inc.
200 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.: UH6050
Project Name: NASP Phase I A-E
Project Manager: J. Barkdale
Samplers: (Signature) [illegible]
Field Team Leader: Dave Fass

STATION NUMBER	DATE 1990	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening VOCs	Screening Phenols	Screening PAHs	Screening Pesticides + PCBs	AIB.1	Screening Metals	REMARKS
P30 SW010	2/7	1650		X		Low Level	Sur. 010 - Site 30	5	X	X	X	X	X	X	VOCs preserved with HCl
P30 SW010D	2/7	1650		X		"	" 010 dup - "	5	X	X	X	X	X	X	Metals preserved w/ HNO_3
P30 SW008	2/7	1630		X		"	" 008 - " "	5	X	X	X	X	X	X	AIB.1 preserved w/ H_2SO_4
P30 SW012	2/7	1600		X		"	" 012 - " "	5	X	X	X	X	X	X	
P30 SW003	2/7	1200		X		"	" 003 - " "	5	X	X	X	X	X	X	1/2 gAmber: Lot# X019 8033
P30 SW002	2/7	1100		X		"	" 002 - " "	5	X	X	X	X	X	X	QC# X0607C
															1L amber: Lot# TZZ 3013
P125 D001	2/8	0900	X			See Job# 9100.275		3							QC# - 5282C
															1/2 L poly: Lot# 0304013
P125 D001-D	2/8	0900	X					3							QC# 0889C
															VOAs: Lot# B0207033
															B12/9C

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
B. Collins	2/8/1900					Fed. Ex.
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number: 9564602935
Relinquished By: (Signature) [illegible]	Date/Time: 2/7/91 1030	Received For Laboratory By: (Signature) [illegible]	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 2/8/91

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*See CONCENTRATION RANGE on back of form

234066

M E M O R A N D U M

TO: John Barksdale

FROM: Gary Hahn

DATE: February 25, 1991

SUBJECT: UH-6000 Pcnsacola Report

REP: 9100.224

CC: Lab File

Attached is the laboratory report of the analysis conducted on nine samples received at the Analytical Services Center on February 1, 1991. Analysis vas performed according to the screening procedures set forth in "Generic Quality Assurance Project Plan, Contamination Assessments and Remedial Activities, Naval Air Station Pensacola, Pensacola, Florida," July 1990.

All samples on which this report is based will be retained by E 6 B for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, vith such charges accruing until destruction of the samples is authorized by the client.

GH:tms
enclosure

Job # [illegible]
SAMPLE RANGE 2213 → 2221

8020 soil — lot # X0362013 QC # 10042C
4 ml VOC lot # 89249023 QC # B581C

Analyze all parameters according to the Site Specific QAP for this Project (see Jack Miller)

ecology and environment, inc.
360 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: 116050
Project Name: NASP Site 80 sediment, surface H2O sampling
Project Manager: John Berksdale
Samplers: (Signature) [signature]
Field Team Leader: Don Foss

	STATION NUMBER	DATE 1991	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION Site 80 sediment samples	NUMBER OF CONTAINERS	Screening VOCs	Screening pesticides	Screening pesticides/PCBs	Screening PAHs	Screening metals	HRS	REMARKS
930	SD020	2/06	1016	X			Low	SD20 – "	3	X	X	X	X	X	X	ice as preservative
930	SD019	2/06	1030	X			"	SD19 – "	3	X	X	X	X	X	X	"
930	SD018	2/06	1045	X			"	SD18 – "	3	X	X	X	X	X	X	"
930	SD016	2/06	1105	X			"	SD16 – "	3	X	X	X	X	X	X	"
930	SD015	2/06	1121	X			"	SD15 – "	3	X	X	X	X	X	X	"
930	SD015D	2/06	1121	X			"	SD15 " duplicate	3	X	X	X	X	X	X	" duplicate sample
930	SD021	2/06	1445	X			"	SD21 "	3	X	X	X	X	X	X	"
930	SD017	2/06	1500	X			"	SD17 "	3	X	X	X	X	X	X	"
930	SD014	2/06	1630	X			"	SD14 "	3	X	X	X	X	X	X	"

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
[signature]	2/6/91 1845	FedEx			
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
Relinquished By: (Signature) FedEx	Date/Time: 0900 2-7-91	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)

Ship Via: FedEx
BL/Airbill Number: 9564602946
Date: 2/06/91

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.

234066

3100459

Analyze all parameters as per to Site Specific QAP for this project (See Jack Miller)

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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.: U1V6050
Project Name: NAST Phase I A-E
Project Manager: J. Bankedale
Sampler: (Signature) [signature]
Field Team Leader: Dan Foss

	STATION NUMBER	DATE 1990	TIME	SAMPLE TYPE Grab	Comp	Air	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening VOCs	Screening Phenols	Screening PAHs	Screening Pesticides + PCBs	Screening Metals	418.1	REMARKS
P30	SW001	2/7	1245		X		Low Level	Sur. H2O 001 - Site 30	5	X	X	X	X	X	X	← Surface Water
P30	SD005	2/8	1215	X			"	Sed 005 - Site 30	3	X	X	X	X	X	X	
P30	SD004	2/7	1245	X			"	Sed 004 - Site 30	3	X	X	X	X	X	X	For water:
P30	SD003	2/7	1200	X			"	Sed 003 - Site 30	3	X	X	X	X	X	X	VOCs preserved w/ HCL
P30	SD013	2/7	1530	X			"	" 013 - " "	3	X	X	X	X	X	X	Metals " " HNO3
P30	SD012	2/7	1600	X			"	" 012 - " "	3	X	X	X	X	X	X	418.1 " " H2SO4
P30	SD010	2/7	1650	X			"	" 010 - " "	3	X	X	X	X	X	X	
P30	SD008	2/7	1630	X			"	" 008 - " "	3	X	X	X	X	X	X	Lot# QC#
P30	SD009	2/7	1640	X			"	" 009 - " "	3	X	X	X	X	X	X	VOAs B0207033 B1219C
P30	SD006	2/8	1230	X			"	" 006 - " "	3	X	X	X	X	X	X	B9249073 B981C
P30	SD007	2/8	1310	X			"	" 007 - " "	3	X	X	X	X	X	X	1/2 amber X0198033 X0607C
P30	SD011	2/8	1400	X			"	" 011 - " "	3	X	X	X	X	X	X	1L amber 9223013 3282C
P30	SD007	2/8	1600	X			" See Job # 9100.277	Sed 007 - Site 1	3	X	X	X	X	X	X	1/2 L poly 0309013 0889C
P01	SD006	2/8	1700	X			"	" 006 - " "	3	X	X	X	X	X	X	

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
R. Calvert	2/8 1900					Fed Ex
						BL/Airbill Number: 9564602924 — Date: 2/8/91
Fed Ex	2/9/91 1030	Received for Laboratory By: [signature]			Received for Laboratory By: (Signature)	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
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334066

3330400

Job # 9100.024
Sample RANGE 2051 – 2056

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Phase I NASP screening

CHAIN-OF-CUSTODY RECORD

Project No.: UHC0030
Project Name: Sikeland Site 30 sediment sampling
Project Manager: Doug Heatwole
John Barksdale
Samplers: (Signature) Michele Cleland, DK Gilly, Douglas Heatwole
Field Team Leader: Michele Cleland

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Volatile Organics (Screening)	BNAs, phenols, pesticides/PCBs	Metals (screening)	TRPHs (418.1)	REMARKS
30-001	1/31/91	8:45	X			low-metals/organics	Site 30, Station 1	3	2	1			
01-001	1/31/91	9:40	X			" " "	Site 1, Station 1	3	2	1			
01-002	1/31/91	10:00	X			" " "	Site 1, Station 2	3	2	1			
01-003	1/31/91	10:25	X			" " "	Site 1, Station 3	3	2	1			
01-004	1/31/91	10:50	X			" " "	Site 1, Station 4	3	2	1			
01-005	1/31/91	11:20	X			" " "	Site 1, Station 5	3	2	1			

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Ship Via:
Michele Cleland	1/31/90 14:00	Fed Ex				Federal Express
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	
						BL/Airbill Number: 9548745850
Relinquished By: (Signature)	Date/Time: 0830	Received For Laboratory By (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By (Signature)	Date: 1/31/91
Fed Ex	2-1-91	Susan Gunson				

L[illegible]on: Original Accompanies Shipment; Copy to Coordinator Field Files
[illegible]CENTRATION RANGE on back of form.

234059

Job [redacted] 100.226
Sample [redacted] 2222-2224

ecology and environment, inc.
[redacted] PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
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BOTTLE 1L amber Lot# [redacted] 3283C
1/2gal amber Lot# X0248C QC# X0711C
1/2L poly Lot# 0304013 QC# 0889C
40 ml VOC Lot# 89249023 QC# B881C

Analyze all parameters according to the S[redacted] QA's for this project (see Jack N[redacted])

CHAIN-OF-CUSTODY RECORD

Project No.: 416050
Project Name: NYS Site 30 Sediment and Surface H2O Sampling
Project Manager: John Berksdale
Sampler: (Signature) Chuck George & Edward
Field Team Leader: Dan Foss

	STATION NUMBER	DATE 1991	TIME	SAMPLE TYPE: COMP	SAMPLE TYPE: GRAB	SAMPLE TYPE: AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION Site 30 Surface H2O Sampling	NUMBER OF CONTAINERS	Screening Volatiles	Screening Phenols	Screening PAHs	Screening Pesticides + PCBs	Screening metals	418.1 TRPH	REMARKS
P30	SW021	2/06	1450		X		Low	SW-21 "	5	X	X	X	X	X	X	
P30	SW017	2/06	1500		X		"	SW-17 "	5	X	X	X	X	X	X	
P30	SW014	2/06	1630		X		"	SW14 "	5	X	X	X	X	X	X	

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[signature]	2/6/91 1845	Foss			
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
Relinquished By: (Signature)	Date/Time: 0900 2-7-91	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)
Foss		[signature]			

Ship Via: Fed EX
BL/Airbill Number: 9564602946
Date: 2/06/91

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334066

Job # 9100.250 — SAMPLE RANGE 2213 → 2221

802 soil — lot # X0362013 QC # 100412C
4 mL VOC lot # 8921190233 QC # B88W

Analyze all parameters according to the site specific QAP for this project (see Jack Miller)

ecology and environment, inc.

360 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

30004061

CHAIN-OF-CUSTODY RECORD

Project No.: 1116050
Project Name: NASP Site 80 Sediment, Surface H2O Sampling
Project Manager: John Berksdale
Samplers: (Signature) [signature]
Field Team Leader: Don Foss

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION (Site 80 sediment samples)	NUMBER OF CONTAINERS	Screening VOCs	Screening phenols	Screening pesticides/PCBs	Screening OPHs	Screening metals	LHRs	REMARKS
SD020	2/06	1016	X			Low	SD20 — "	3			X	X	X	X	Ice as solvent/ice
SD019	2/06	1030	X			"	SD19 — "	3			X	X	X	X	"
SD018	2/06	1045	X			"	SD18 — "	3			X	X	X	X	"
SD016	2/06	1105	X			"	SD16 — "	3	X	X	X	X	X	X	"
SD015	2/06	1121	X			"	SD15 — "	3	X	X	X	X	X	X	"
SD015D	2/06	1121	X			"	SD15 " duplicate	3	X	X	X	X	X	X	" duplicate sample
SD021	2/06	1445	X			"	SD21 "	3	X	X	X	X	X	X	"
SD017	2/06	1500	X			"	SD17 "	3	X	X	X	X	X	X	"
SD014	2/06	1630	X			"	SD14 "	3	X	X	X	X	X	X	"

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
[signature]	2/6/91 1845	FedEx				FedEx
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number: 9564602946
Relinquished By: (Signature) FedEx	Date/Time: 0900 2-7-91	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 2/06/91

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Analyze all parameters accord. to Site Specific QAP for this project (See Jack Miller)

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International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: U1G050
Project Name: NAST Phase I A-E
Project Manager: J. Barkedale
Sampler: (Signature) [signature]
Field Team Leader: Dan Fuss

	STATION NUMBER	DATE 1990	TIME	SAMPLE TYPE: SOIL	SAMPLE TYPE: WATER	SAMPLE TYPE: AIR	SAMPLE INFORMATION / SUSPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening: VOCs	Screening: Phenols	Screening: PAHs	Screening: Pest.+PCBs	Screening: Metals	418.1	REMARKS
P30	SW001	2/7	1245		X		Low Level	Sur. H_2O 001 - Site 30	5	X	X	X	X	X	X	← Surface Water
P30	SD005	2/8	1215	X			"	Sed 005 - Site 30	3	X	X	X	X	X	X	
P30	SD004	2/7	1245	X			"	Sed 004 - Site 30	3	X	X	X	X	X	X	For water:
P30	SD003	2/7	1200	X			"	Sed 003 - Site 30	3	X	X	X	X	X	X	VOCs preserved w/ HCL
P30	SB013	2/7	1530	X			"	" 013 - " "	3	X	X	X	X	X	X	Metals " " HNO_3
P30	SD012	2/7	1600	X			"	" 012 - " "	3	X	X	X	X	X	X	418.1 " " H_2SO_4
P30	SD010	2/7	1650	X			"	" 010 - " "	3	X	X	X	X	X	X	
P30	SD008	2/7	1630	X			"	" 008 - " "	3	X	X	X	X	X	X	Lot# QC#
P30	SD009	2/7	1640	X			"	" 009 - " "	3	X	X	X	X	X	X	VOAs B0207033 B1219C
P30	SD006	2/8	1230	X			"	" 006 - " "	3	X	X	X	X	X	X	B9249023 B881C
P30	SD007	2/8	1310	X			"	" 007 - " "	3	X	X	X	X	X	X	½g amber X0198033 X0607C
P30	SD011	2/8	1400	X			"	" 011 - " "	3	X	X	X	X	X	X	1L amber 9223013 3282C
[illegible]	SD007	2/8	1600	X			" See Job # 9100.227	Sed 007 - Site 1	3	X	X	X	X	X	X	½L poly 0309013 0889C
P01	SD006	2/8	1700	X			"	" 006 - " "	3	X	X	X	X	X	X	

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R. Calkins	2/8 1900				
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)
Fed Ex	2/8/91 1030	[signature]			

Ship Via: Fed Ex
BL/Airbill Number: 9564602924
Date: 2/8/91

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334066

Job # 9100.271
Sample Range 2458 – 2460

Site 30 #1

Analyze all parameters according to site specific QAP for this project (see Jack Miller)

300046?

ecology and environment, inc.
300 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

UNCOS

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.: 1 ~~[illegible]~~ Project Name: ~~J. Burkholder~~ NASP Phase 1 A-E

Project Manager: J. Burkholder

Sampler: (Signature) [signature]

Field Team Leader: Dan Fico

	STATION NUMBER	DATE 1/11	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening VOCs	Screening PAHs	Screening Pesticides	Screening Metals	Screening PCBs	418.1	REMARKS
P30	SW011	2/8	1400		X		Low level	Surr. H_2O 011/Site 30	5	X	X	X	X	X	X	VOCs preserved with HCl
P30	SW006	2/8	1230		X		" "	Surr. H_2O 006/Site 30	5	X	X	X	X	X	X	Metals preserved with HNO_3
P30	SW007	2/8	1310		X		" "	Surr H_2O 007/Site 30	5	X	X	X	X	X	X	418.1 preserved with H_2SO_4
P30	BC															
P30	BC															

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
B Callwell	2/11/91 1900	Fed Ex				Federal Express
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number: 956 4602880 — Date: 2/11/91
Relinquished By: (Signature) Fed Ex	Date/Time: 1030 2-12-91	Received For Laboratory By: (Signature) [signature]	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	

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234066

Job [redacted] 2222-2224

Sample [redacted] 2222-2224

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250 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

8026 1L amber Lot# 4223[redacted] QC# 3283C
1/2gal amber Lot# X024[redacted] QC# X0711C
1/2L Poly Lot# 030413 QC# 0889C
40 ml VOC Lot# 89249033 QC# B881C

CHAIN-OF-CUSTODY RECORD

Project No.: 416050
Project Name: NASP Site 30 Sediment and Surface H2O Sampling
Project Manager: John Barksdale
Sampling Signature: Clark George G Edmond
Field Team Leader: Dan Foss

	STATION NUMBER	DATE 1991	TIME	SAMPLE TYPE Grab	Comp	Blank	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION Site 30 Surface H2O Sediment	NUMBER OF CONTAINERS	Screening Volatile	Screening Phenols	Screening PAH	Screening Pesticides + PCBs	Screening Inorganic	Screening TRPH	REMARKS
P30	SW021	2/06	1400		X		Low	SW-21 "	6	X	X	X	X	X	X	
P30	SW017	2/06	1500		X		"	SW-17 "	5	X	X	X	X	X	X	
P30	SW014	2/06	1630		X		"	SW14 "	5	X	X	X	X	X	X	

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
[signature]	2/6/91 1845	FedEx				Fed EX
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number: 9564602946
Relinquished By: (Signature) FedEx	Date/Time after 2-7-91	Received For Laboratory By: (Signature) [signature]	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 2/06/91

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*CONCENTRATION RANGE on back of form.

224066

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
2354.01	P30-SD002	SPNPRG1	02/07/91		02/13/91
2354.02	P30-SD002	SPNTPH1	02/07/91		02/11/91
2354.03	P30-SD002	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91
		SPNPHL1	02/07/91		02/21/91
23SS.01	P30-SD003	SPNPRG1	02/07/91		02/13/91
2355.02	P30-SD003	SPNTPH1	02/07/91		02/11/91
2355.03.	P30-SD003	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91
		SPNPHL1	02/07/91		02/21/91
2356.01	P30-SD004	SPNPRG1	02/07/91		02/13/91
2356.02	P30-SD004	SPNTPH1	02/07/91		02/11/91
2356.03	P30-SD004	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91
		SPNPHL1	02/07/91		02/21/91
23S7.01	P30-SD005	SPNPRG1	02/08/91		02/13/91
2357.02	P30-SD005	SPNTPH1	02/08/91		02/12/91
2357.03	P30-SD005	SPNMET1	02/08/91		02/12/91
		SPNP&P1	02/08/91		02/13/91
		SPNPAH1	02/08/91		02/13/91
		SPNPHL1	02/08/91		02/21/31
2358.01	P30-SD006	SPNPRG1	02/08/91		02/13/91
2358.02	P30-SD006	SPNTPH1	02/08/91		02/12/91
2358.03	P30-SD006	SPNMET1	02/08/91		02/12/91
		SPNP&P1	02/08/91		02/13/91
		SPNPAH1	02/08/91		02/13/91
		SPNPHL1	02/08/91		02/21/91
2359.01	P30-SD007	SPNPRG1	02/08/91		02/16/91
2359 .02	P30-SD007	SPNTPH1	02/08/91		02/12/91
2359.03	P30-SD007	SPNMET1	02/08/91		02/12/91
		SPNP&P1	02/08/91		02/13/91
		SPNPAH1	02/08/91		02/13/91
		SPNPHL1	02/08/91		02/21/91
2360.01	P30-SD008	SPNPRG1	02/07/91		02/36/91
2360.02	P30-SD008	SPNTPH1	02/07/91		02/11/91
2360.03	P30-SD008	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91
		SPNPHL1	02/07/91		02/21/91
2361.01	P30-SD009	SPNPRG1	02/07/91		02/18/91
2361.02	P30-SD009	SPNTPH1	02/07/91		02/11/91
2361.03	P30-SD009	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZE
2361.03	P30-SD009	SPNPHL1	02/07/91		02/21/91
2362.01	P30-SD010	SPNPRG1	02/07/91		02/16/91
2362.02	P30-SD010	SPNTPH1	02/07/91		02/11/91
2362.03	P30-SD010	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91
		SPNPHL1	02/07/91		02/21/91
2363.01	P30-SD011	SPNPRG1	02/08/91		02/16/91
2363.02	P30-SD011	SPNTPH1	02/08/91		02/12/91
2363.03	P30-SD011	SPNMET1	02/06/91		02/12/91
		SPNP&P1	02/08/91		02/13/91
		SPNPAH1	02/08/91		02/13/91
		SPNPHL1	02/08/91		02/21/91
2364.01	P30-SD012	SPNPRG1	02/07/91		02/18/91
2364.02	P30-SD012	SPNTPH1	02/07/91		02/11/91
2364.03	P30-SD012	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91
		SPNPHL1	02/07/91		02/21/91
2365.01	P30-SD013	SPNPRG1	02/07/91		02/16/91
2363.02	P30-SD013	SPNTPH1	02/07/91		02/12/91
2365.03	P30-SD013	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91
		SPNPHL1	02/07/91		02/21/9.
2366.01	P30-SW002	WPNPRG1	02/07/91		02/12/91
2366.03	P30-SW002	WPNP&P1	02/07/91		02/13/91
		WPNPAH1	02/07/91		02/14/91
		WPNPHL1	02/07/91		02/21/91
2366.04	P30-SW002	WPNTPH1	02/07/91		02/12/91
2366.05	P30-SW002	WPNMET1	02/07/91		02/12/91
2367.01	P30-SW003	WPNPRG1	02/07/91		02/12/91
2367.03	P30-SW003	WPNP&P1	02/07/91		02/13/91
		WPNPAH1	02/07/91		02/14/91
		WPNPHL1	02/07/91		02/21/91
2367.04	P30-SW003	WPNTPH1	02/07/91		02/12/91
2367.05	P30-SW003	WPNMET1	02/07/91		02/12/91
2368.01	P30-SW004	WPNPRG1	02/07/91		02/12/91
2368.03	P30-SW004	WPNP&P1	02/07/91		02/13/91
		WPNPAH1	02/07/91		02/14/91
		WPNPHL1	02/07/91		02/23/91
2368.04	P30-SW004	WPNTPH1	02/07/91		02/12/91
2368.05	P30-SW004	WPNMET1	02/07/91		02/12/91
2369.01	P30-SW008	WPNPRG1	02/07/91		02/12/91
2369.03	P30-SW008	WPNP&P1	02/07/91		02/13/91
		WPNPAH1	02/07/91		02/14/91
		WPNPHL1	02/07/91		02/21/91

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
2369.04	P30-SW008	WPNTPH1	02/07/91		02/12/91
2369.05	P30-SW008	WPNMET1	02/07/91		02/12/91
2370.01	P30-SW010	WPNPRG1	02/07/91		02/12/91
2370.03	P30-SW010	WPNP&P1	02/07/91		02/13/91
		WPNPAH1	02/07/91		02/14/91
		WPNPHL1	02/07/91		02/21/91
2370.04	P30-SW010	WPNTPH1	02/07/91		02/12/91
2370.05	P30-SW010	WPNMET1	02/07/91		02/12/91
2371.01	P30-SW010DUP	WPNPRG1	02/07/91		02/12/91
2371.03	P30-SW010DUP	WPNP&P1	02/07/91		02/13/91
		WPNPAH1	02/07/91		02/14/91
		WPNPHL1	02/07/91		02/22/91
2371.04	P30-SW010DUP	WPNTPH1	02/07/91		02/12/91
2371.05	P30-SW010DUP	WPNMET1	02/07/91		02/12/91
2372.01	P30-SW012	WPNPRG1	02/07/91		02/12/91
2372.03	P30-SW012	WPNP&P1	02/07/91		02/13/91
		WPNPAH1	02/07/91		02/14/91
		WPNPHL1	02/07/91		02/22/91
2372.04	P30-SW012	WPNTPH1	02/07/91		02/12/91
2372.05	P30-SW012	WPNMET1	02/07/91		02/12/91

JOB NUMBER : 9100.256

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
2213.01	P30-SD014	SPNPRG1	02/06/91		02/11/91
2213.02	P30-SD014	SPNTPH1	02/06/91		02/11/91
2213.03	P30-SD014	SPNMET1	02/06/91		02/08/91
		SPNP&P1	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/12/91
		SPNPHL1	02/06/91		02/20/91
2214.01	P30-SD015	SPNPRG1	02/06/91		02/11/91
2214.02	P30-SD015	SPNTPH1	02/06/91		02/11/91
2214.03	P30-SD015	SPNMET1	02/65/91		02/08/91
		SPNP&P1	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/12/91
		SPNPHL1	02/06/91		02/20/91
2215.01	P30-SD015 DUP.	SPNPRG1	02/06/91		02/11/91
2215.02	P30-SD015 DUP.	SPNTPH1	02/06/91		02/11/91
2215.03	P30-SD015 DUP.	SPNMET1	02/66/91		02/08/91
		SPNP&P1	02/66/91		02/08/91
		SPNPAH1	02/06/91		02/12/91
		SPNPHL1	02/06/91		02/20/91
2216.01	P30-SD016	SPNPRG1	02/06/91		02/11/91
2216.02	P30-SD016	SPNTPH1	02/06/91		02/11/91
2216.03	P30-SD016	SPNMET1	02/06/91		02/08/91
		SPNP&P1	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/12/91
		SPNPHL1	02/06/91		02/20/91
2217.01	P30-SD017	SPNPRG1	02/06/91		02/11/91
2217.02	P30-SD017	SPNTPH1	02/06/91		02/11/91
2217.03	P30-SD017	SPNMET1	02/06/91		02/08/91
		SPNP&P1	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/12/91
		SPNPHL1	02/06/91		02/20/91
2218.01	P30-SD018	SPNPRG1	02/06/91		02/11/91
2218.02	P30-SD018	SPNTPH1	02/06/91		02/11/91
2218.03	P30-SD018	SPNMET1	02/06/91		02/08/91
		SPNP&P1	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/12/91
		SPNPHL1	02/06/91		02/26/91
2219.01	P30-SD019	SPNPRG1	02/06/91		02/11/91
2219.02	P30-SD019	SPNTPH1	02/06/91		02/11/91
2219.03	P30-SD019	SPNMET1	02/06/91		02/08/91
		SPNP&P1	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/12/91
		SPNPHL1	02/06/91		02/20/91
2220.01	P30-SD020	SPNPRG1	02/06/91		02/31/91
2220.02	P30-SD020	SPNTPH1	02/06/91		02/11/91
2220.03	P30-SD020	SPNMET1	02/06/91		02/08/91
		SPNP&P1	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/13/91

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
2220.03	P30-SD020	SPNPHL1	02/06/91		02/20/91
2221.01	P30-SD021	SPNPRG1	02/06/91		02/11/91
2221.02	P30-SD021	SPNTPH1	02/06/91		02/11/91
2221.03	P30-SD021	SPNMET1	02/06/91		02/08/91
		SPNP&P1	02/06/91		02/08/91
		SPNPAH1	03/06/91		02/13/91
		SPNPHL1	02/06/91		02/20/91
2222.01	P30-SW014	WPNPRG1	02/06/91		02/11/91
2222.03	P30-SW014	WPNP&P1	02/06/91		02/08/91
		WPNPAH1	02/06/91		02/13/91
		WPNPHL1	02/06/91		02/20/91
2222.04	P30-SW014	WPNTPH1	02/06/91		02/12/91
2222.05	P30-SW014	WPNMET1	02/06/91		02/08/91
2223.01	P30-SW017	WPNPRG1	02/06/91		02/11/91
2223.03	P30-SW017	WPNP&P1	02/06/91		02/08/91
		WPNPAH1	02/06/91		02/13/91
		WPNPHL1	02/06/91		02/20/91
2223.04	P30-SW017	WPNTPH1	02/06/91		02/12/91
2223.05	P30-SW017	WPNMET1	02/06/91		02/08/91
2224.01	P30-SU021	WPNPRG1	02/06/91		02/11/91
2224.03	P30-SW021	WPNP&P1	02/06/91		02/08/91
		WPNPAH1	02/06/91		02/13/91
		WPNPHL1	02/06/91		02/20/91
2224.04	P30-SW021	WPNTPH1	02/06/91		02/12/91
2224.05	P30-SW021	WPNMET1	02/06/91		02/08/91

JOB NUMBER : 9100.291

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
2458.01	P30-SW006	WPNPRG1	02/08/91		02/15/91
2458.03	P30-SW006	WPNP&P1	02/08/91		02/14/91
		WPNPAH1	02/08/91		02/22/91
		WPNPHL1	02/08/91		02/19/91
2458.04	P30-SW006	WPNTPH1	02/08/91		02/14/91
2458.05	P30-SW006	WPNMET1	02/08/91		02/14/91
2459.01	P30-SW007	WPNPRG1	02/08/91		02/15/91
2459.03	P30-SW007	WPNP&P1	02/08/91		02/14/91
		WPNPAH1	02/08/91		02/22/91
		WPNPHL1	02/08/91		02/20/91
2459.04	P30-SW007	WPNTPH1	02/08/91		02/14/91
2459.05	P30-SW007	WPNMET1	02/08/91		02/14/91
2460.01	P30-SW011	WPNPRG1	02/08/91		02/15/91
2460.03	P30-SW011	WPNP&P1	02/08/91		02/14/91
		WPNPAH1	02/08/91		02/22/91
		WPNPHL1	02/08/91		02/20/91
2460.04	P30-SW011	WPNTPH1	02/08/91		02/14/91
2460.05	P30-SW011	WPNMET1	02/06/91		02/14/91

Job # 9100.224
SAMPLE RANGE 2057 – 2059

Phase I NASP screening

ecology and environment, inc.
269 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: U46030
Project Name: Site 1 ~~and Site 2~~ surface water sampling
Project Manager: Doug Heatwole, John Barksdale
Samplers: (Signatures) Michele Cleland, Douglas W. Heatwole, DK Fillyo
Field Team Leader: Michele Cleland

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Volatile Organics (screening)	PAHs, Phenols, Pesticides/PCBs (screening)	Metals (screening)	TRPHs (418.1)			REMARKS
001	1/31/91	09:40		X		low metals/organics	Site 1 station 1	5	2	1	1	1			
003	1/31/91	10:25		X		" " "	Site 1, station 3	5	2	1	1	1			
005	1/31/91	11:20		X		" " "	Site 1, station 5	5	2	1	1	1			

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
Michele Cleland	1/31/91 14:00	Fed Ex				Federal Express
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	BL/Airbill Number: 9548745861
Relinquished By: (Signature) Fed Ex	Date/Time: 0800 2-1-91	Received For Laboratory By (Signature): Brian Jensen	Relinquished By: (Signature)	Date/Time	Received For Laboratory By (Signature)	Date: 1/31/91

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form

234055

JOB NUMBER : 9100.276

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
2354.01	P30-SD002	SPNPRG1	02/07/91		02/13/91
2354.02	P30-SD002	SPNTPH1	02/07/91		02/13/91
2354.03	P30-SD002	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91
		SPNPHL1	02/07/91		02/21/91
2355.01	P30-SD003	SPNPRG1	02/07/91		02/13/91
2355.02	P30-SD003	SPNTPH1	02/07/91		02/11/91
2355.03	P30-SD003	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91
		SPNPHL1	02/07/91		02/21/91
2356.01	P30-SD004	SPNPRG1	02/07/91		02/13/91
2356.02	P30-SD004	SPNTPH1	02/07/91		02/11/91
2356.03	P30-SD004	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91
		SPNPHL1	02/07/91		02/21/91
2357.01	P30-SD005	SPNPRG1	02/08/91		02/13/91
2357.02	P30-SD005	SPNTPH1	02/08/91		02/12/91
2357.03	P30-SD005	SPNMET1	02/08/91		02/12/91
		SPNP&P1	02/08/91		02/13/91
		SPNPAH1	02/08/91		02/13/91
		SPNPHL1	02/08/91		02/21/91
2358.01	P30-SD006	SPNPRG1	02/08/91		02/13/91
2358.02	P30-SD006	SPNTPH1	02/08/91		02/12/91
2358.03	P30-SD006	SPNMET1	02/08/91		02/12/91
		SPNP&P1	02/08/91		02/13/91
		SPNPAH1	02/08/91		02/13/91
		SPNPHL1	02/08/91		02/21/91
2359.01	P30-SD007	SPNPRG1	02/08/91		02/16/91
2359.02	P30-SD007	SPNTPH1	02/08/91		02/12/91
2359.03	P30-SD007	SPNMET1	02/08/91		02/12/91
		SPNP&P1	02/08/91		02/13/91
		SPNPAH1	02/08/91		02/13/91
		SPNPHL1	02/08/91		02/21/91
2360.01	P30-SD008	SPNPRG1	02/07/91		02/16/91
2360.02	P30-SD008	SPNTPH1	02/07/91		02/11/91
2360.03	P30-SD008	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91
		SPNPHL1	02/07/91		02/21/91
2361.01	P30-SD009	SPNPRG1	02/07/91		02/18/91
2361.02	P30-SD009	SPNTPH1	02/07/91		02/11/91
2361.03	P30-SD009	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91

JOB NUMBER : 9100.276

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
2361.03	P30-SD009	SPNPHL1	02/07/91		02/21/91
2362.01	P30-SD010	SPNPRG1	02/07/91		02/16/91
2362.02	P30-SD010	SPNTPH1	02/07/91		02/11/91
2362.03	P30-SD010	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91
		SPNPHL1	02/07/91		02/21/91
2363.01	P30-SD011	SPNPRG1	02/08/91		02/16/91
2363.02	P30-So011	SPNTPH1	02/08/91		02/12/91
2363.03	P30-SD011	SPNMET1	02/08/91		02/12/91
		SPNP&P1	02/08/91		02/13/91
		SPNPAH1	02/08/91		02/13/91
		SPNPHL1	02/08/91		02/21/91
2364.01	P30-SD012	SPNPRG1	02/07/91		02/18/91
2364.02	P30-SD012	SPNTPH1	02/07/91		02/11/91
2364.03	P30-SD012	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91
		SPNPHL1	02/07/91		02/21/91
2365.01	P30-SD013	SPNPRG1	02/07/91		02/16/91
2365.02	P30-SD013	SPNTPH1	02/07/91		02/12/91
2365.03	P30-SD013	SPNMET1	02/07/91		02/12/91
		SPNP&P1	02/07/91		02/13/91
		SPNPAH1	02/07/91		02/13/91
		SPNPHL1	02/07/91		02/21/91
2366.01	P30-SW002	WPNPRG1	02/07/91		02/12/91
2366.03	P30-SW002	WPNP&P1	02/07/91		02/13/91
		WPNPAH1	02/07/91		02/14/91
		WPNPHL1	02/07/91		02/21/91
2366.04	P30-SW002	WPNTPH1	02/07/91		02/12/91
2366.05	P30-SW002	WPNMET1	02/07/91		02/12/91
2367.01	P30-SW003	WPNPRG1	02/07/91		02/12/91
2367.03	P30-SW003	WPNP&P1	02/07/91		02/13/91
		WPNPAH1	02/07/91		02/14/91
		WPNPHL1	02/07/91		02/21/91
2367.04	P30-SW003	WPNTPH1	02/07/91		02/12/91
2367.05	P30-SW003	WPNMET1	02/07/91		02/12/91
2368.01	P30-SW004	WPNPRG1	02/07/91		02/12/91
2368.03	P30-SW004	WPNP&P1	02/07/91		02/13/91
		WPNPAH1	02/07/91		02/14/91
		WPNPHL1	02/07/91		02/21/91
2368.04	P30-SW004	WPNTPH1	02/07/91		02/12/91
2368.05	P30-SW004	WPNMET1	02/07/91		02/12/91
2369.01	P30-SW008	WPNPRG1	02/07/91		02/12/91
2369.03	P30-SW008	WPNP&P1	02/07/91		02/13/91
		WPNPAH1	02/07/91		02/14/91
		WPNPHL1	02/07/91		02/21/91

JOB NUMBER : 9100.276

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE In	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
2369.04	P30-SW008	WPNTPH1	02/07/93		02/12/91
2369.05	P30-SW008	WPNMET1	02/07/91		02/12/91
2370.01	P30-SW010	WPNPRG1	02/07/91		02/12/91
2370.03	P30-SW010	WPNP&P1	02/07/91		02/13/91
		WPNPAH1	02/07/91		02/14/91
		WPNPHL1	02/07/91		02/21/91
2370.04	P30-SW010	WPNTPH1	02/07/91		02/12/91
2370.05	P30-SW010	WPNMET1	02/07/91		02/12/91
2371.01	P30-SW010DUP	WPNPRG1	02/07/91		02/12/91
2371.03	P30-SW010DUP	WPNP&P1	02/07/91		02/13/91
		WPNPAH1	02/07/93		02/14/91
		WPNPHL1	02/07/91		02/22/91
2371.04	P30-SW010DUP	WPNTPH1	02/07/91		02/12/91
2371.05	P30-SW010DUP	WPNMET1	02/07/91		02/12/91
2372.01	P30-SW012	WPNPRG1	02/07/91		02/12/91
2312.03	P30-SW012	WPNP&P1	02/67/91		02/13/91
		WPNPAH1	02/07/91		02/14/91
		WPNPHL1	02/07/91		02/22/91
2372.04	P30-SW012	WPNTPH1	02/07/91		02/12/91
2372.05	P30-SW012	WPNMET1	02/07/91		02/12/91

JOB NUMBER : 9100.256

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
2213.01	P30-SD014	SPNPRGl	02/06/91		02/11/91
2213.02	P30-SD014	SPNTPHl	02/06/91		02/11/91
2213.03	P30-SD014	SPNMET1	02/06/91		02/08/91
		SPNPhPl	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/12/91
		SPNPHL1	02/06/91		02/20/91
2214.01	P30-SD015	SPNPRGl	02/06/91		02/11/91
2214.02	P30-SD015	SPNTPHl	02/06/91		02/11/91
2214.03	P30-SD015	SPNMET1	02/06/91		02/08/91
		SPNP&P1	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/12/91
		SPNPHL1	02/06/91		02/20/91
2215.01	P30-SD015 DUP.	SPNPRGl	02/06/91		02/11/91
2215.02	P30-SD015 DUP.	SPNTPH1	02/06/91		02/11/91
2215.03	P30-SD015 DUP.	SPNMET1	02/06/91		02/08/91
		SPNPhPl	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/12/91
		SPNPHL1	02/06/91		02/20/91
2216.01	P30-SD016	SPNPRG1	02/06/91		02/11/91
2216.02	P30-SD016	SPNTPHl	02/06/91		02/11/91
2216.03	P30-SD016	SPNMET1	02/06/91		02/08/91
		SPNP&P1	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/12/91
		SPNPHL1	02/06/91		02/20/91
2217.01	P30-SD017	SPNPRGl	02/06/91		02/11/91
2217.02	P30-SD017	SPNTPH1	02/06/91		02/11/91
2217.03	P30-SD017	SPNMET1	02/06/91		02/08/91
		SPNP&P1	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/12/91
		SPNPHL1	02/06/91		02/20/91
2218.01	P30-SD018	SPNPRGl	02/06/91		02/11/91
2218.02	P30-SD018	SPNTPHl	02/06/91		02/11/91
2218.03	P30-SD018	SPNMET1	02/06/91		02/08/91
		SPNP&P1	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/12/91
		SPNPHL1	02/06/91		02/20/91
2219.01	P30-SD019	SPNPRGl	02/06/91		02/11/91
2219.02	P30-SD019	SPNTPH1	02/06/91		02/11/91
2219.03	P30-SD019	SPNMET1	02/06/91		02/08/91
		SPNP&P1	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/12/91
		SPNPHL1	02/06/91		02/20/91
2220.01	P30-SD020	SPNPRG1	02/06/91		02/11/91
2220.02	P30-SD020	SPNTPH1	02/06/91		02/11/91
2220.03	P30-SD020	SPNMET1	02/06/91		02/08/91
		SPNP&P1	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/13/91

JOB NUMBER : 9100.256

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
2220.03	P30-SD020	SPNPHL1	02/06/91		02/20/91
2221.01	P30-SD021	SPNPRG1	02/06/91		02/11/91
2221.02	P30-SD021	SPNTPH1	02/06/91		02/11/91
2221.03	P30-SD021	SPNMET1	02/06/91		02/08/91
		SPNP&P1	02/06/91		02/08/91
		SPNPAH1	02/06/91		02/13/91
		SPNPHL1	02/06/91		02/20/91
2222.01	P30-SW014	WPNPRG1	02/06/91		02/11/91
2222.03	P30-SW014	WPNP&P1	02/06/91		02/08/91
		WPNPAH1	02/06/91		02/13/91
		WPNPHL1	02/06/91		02/20/91
2222.04	P30-SW014	WPNTPH1	02/06/91		02/12/91
2222.05	P30-SW014	WPNMET1	02/06/91		02/08/91
2223.01	P30-SW017	WPNPRG1	02/06/91		02/11/91
2223.03	P30-SW017	WPNP&P1	02/06/91		02/08/91
		WPNPAH1	02/06/91		02/13/91
		WPNPHL1	02/06/91		02/20/91
2223.04	P30-SW017	WPNTPH1	02/06/91		02/12/91
2223.05	P30-SW017	WPNMET1	02/06/91		02/08/91
2224.01	P30-SW021	WPNPRG1	02/06/91		02/11/91
2224.03	P30-SW021	WPNP&P1	02/06/91		02/08/91
		WPNPAH1	02/06/93		02/13/91
		WPNPHL1	02/06/91		02/20/91
2224.04	P30-SW021	WPNTPH1	02/06/91		02/12/91
2224.05	P30-SW021	WPNMET1	02/06/91		02/08/91

JOB NUMBER : 9100.224

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
2051.01	P30-SD001	SPNPRGl	01/31/91		02/06/91
2051.02	P30-SD001	SPNTPHl	01/31/91		02/07/91
2051.03	P30-SD001	SPNMETl	01/31/91		02/05/91
		SPNPSP1	01/31/91		02/05/91
		SPNPAHl	01/31/91		02/09/91
		SPNPHLl	01/31/91		02/17/91
2052.01	P01-SD001	SPNPRGl	01/31/91		02/06/91
2052.02	P01-SD001	SPNTPHl	01/31/91		02/07/91
2052.03	P01-SD001	SPNMETl	01/31/91		02/05/91
		SPNP&P1	01/31/91		02/05/91
		SPNPAHl	01/31/91		02/09/91
		SPNPHL1	01/31/91		02/17/91
2053.01	P01-SD002	SPNPRG1	01/31/91		02/06/91
2053.02	P01-SD002	SPNTPHl	01/31/91		02/07/91
2053.03	P01-SD002	SPNMETl	01/31/91		02/05/91
		SPNP&P1	01/31/91		02/05/91
		SPNPAHl	01/31/91		02/09/91
		SPNPHLl	01/31/91		02/17/91
2054.01	P01-SD003	SPNPRGl	01/31/91		02/06/91
2054.02	P01-SD003	SPNTPHl	01/31/91		02/07/91
2054.03	P01-SD003	SPNMETl	01/31/91		02/05/91
		SPNP&P1	01/31/91		02/05/91
		SPNPAHl	01/31/91		02/08/01
		SPNPHLl	01/31/91		02/17/91
2055.01	P01-SD004	SPNPRGl	01/31/91		02/06/91
2055.02	P01-SD004	SPNTPHl	01/31/91		02/07/91
2055.03	P01-SD004	SPNMETl	01/31/91		02/05/91
		SPNP&P1	01/31/91		02/05/91
		SPNPAH1	01/31/91		02/09/91
		SPNPHLl	01/31/91		02/17/91
2056.01	P01-SD005	SPNPRGl	01/31/91		02/06/91
2056.02	P01-SD005	SPNTPH1	01/31/91		02/05/91
2056.03	P01-SD005	SPNMETl	01/31/91		02/05/91
		SPNP&P1	01/31/91		02/05/91
		SPNPAHl	01/31/91		02/09/91
		SPNPHLl	01/31/91		02/17/91
2057.01	P01-SW001	WPNPRG1	01/31/91		02/06/91
2057.03	Pol-SU001	WPNP&P1	01/31/91		02/06/91
		WPNPAH1	01/31/91		02/09/91
		WPNPHL1	01/31/91		02/17/91
2057.04	P01-SW001	WPNTPH1	01/31/91		02/05/91
2057.05	P01-SW001	WPNMET1	01/31/91		02/05/91
2058.01	P01-SW003	WPNPRG1	01/31/91		02/06/91
2058.03	P01-SW003	WPNP&P1	01/31/91		02/06/91
		WPNPAH1	01/31/91		02/09/91
		WPNPHL1	01/31/91		02/17/91
2058.04	P01-SW003	WPNTPH1	01/31/91		02/05/91

JOB NUMBER : 9100.224

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT. SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
2058.05	P01-SW003	WPNMET1	01/31/91		02/05/91
2059.01	P01-SW005	WPNPRG1	01/31/91		02/06/91
2059.03	P01-SW005	WPNP&P1	01/31/91		02/06/91
		WPNPAH1	01/31/91		02/09/91
		WPNPHL1	01/31/91		02/17/91
2059.04	P01-SW005	WPNTPH1	01/31/91		02/05/91
2059.05	P01-SW005	WPNMET1	01/31/91		02/05/91

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HETALS SECTION JOB NUMBER :9100.224

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-02051 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD001

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	11		6.9	MG/KG
Chromium	33		1.0	MG/KG
Zinc	12		2.0	MG/KG
Lead	16		4.0	MG/KG
Cadmium	0.82		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	3.6		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-02354 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD002

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1800		1.0	MG/KG
Zinc	130		2.0	MG/KG
Lead	400		4.0	MG/KG
Cadmium	45		0.50	MG/KG
Nickel	6.3		4.0	MG/KG
Copper	47		2.5	MG/KG
Silver	23		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

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METALS SECTION JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-02355 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD003

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1300		1.0	MG/KG
Zinc	130		2.0	MG/KG
Lead	550		4.0	MG/KG
Cadmium	37		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	35		2.5	MG/KG
Silver	1.5		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.276

Ecology urd Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-02356 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD004

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	15		10	MG/KG
Zinc	74		2.0	MG/KG
Lead	47		40	MG/KG
Cadmium	1.8		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	18		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

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Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-02357 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD005

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	74		1.0	MG/KG
Zinc	31		2.0	MG/KG
Lead	35		4.0	MG/KG
Cadmium	1.3		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	5.9		2.s	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DBTBCTION LIMIT

METALS SECTION JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-02358 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD006

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	26		1.0	MG/KG
Zinc	0.4		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	0.59		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I CROUPS A-B
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-02359 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD007

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	53		1.0	MG/KG
Zinc	32		2.0	MG/KG
Lead	44		4.0	MG/KG
Cadmium	1.8		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	7.8		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-02360 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD008

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	19		1.0	MG/KG
Zinc	12		2.0	MG/KG
Lead	6.7		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	2.9		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.276

Bcology and Environment, Inc.
Analytical Services Canter

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-02361 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD009

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	10		1.0	MG/KG
Zinc	19		2.0	MG/KG
Lead	14		4.0	MG/KG
Cadmium	0.78		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	5.0		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER 19100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-02362 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD010

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	2.6		I.0	MG/KG
Zinc	30		2.0	MG/KG
Lead	7.6		40	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	4.I		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

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Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I CROUPS A-B
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-02363 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD011

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.8		1.0	MG/KG
Zinc	42		2.0	MG/KG
Lead	39		4.0	MG/KG
cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	14		25	MG/KG
Silver	1.6		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-02364 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD012

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	60		1.0	MG/KG
Zinc	09		2.0	MG/KG
Lead	34		4.0	MG/KG
Cadmium	2.5		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	17		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WBIGET
SAMPLE ID LAB : EE-91-02365 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD013

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	120		1.0	MG/KG
Zinc	a5		2.0	MG/KG
Lead	180		4.0	MG/KG
Cadmium	19		0.50	MG/KG
Nickel	5.8		4.0	MG/KG
Copper	36		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-02213 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD014

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	32		1.0	MG/KG
Zinc	53		2.0	MG/KG
Lead	70		4.0	MG/KG
Cadmium	24		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	36		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASK I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-9142214 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD015

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	17		1.0	MG/KG
Zinc	86		2.0	MG/KG
Lead	130		4.0	MG/KG
Cadmium	1.7		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	93		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DBTECTBD
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-02215 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD015 DUP.

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	16		1.0	MG/KG
Zinc	78		2.0	MG/KG
Lead	120		4.0	MG/KG
Cadmium	1.3		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	84		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000477

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-02216 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD016

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	10		1.0	MG/KG
Zinc	100		2.0	MG/KG
Lead	100		4.0	MG/KG
cadmium	1.4		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	93		2.3	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-02217 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD017

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.6		1.0	MG/KG
Zinc	34		2.0	MG/KG
Lead	37		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	10		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000478

Ecology urd Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-02218 MATRIX: SOUD
SAMPLE ID CLIENT: P30-SD018

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	6.3		1.0	MG/KG
Zinc	69		2.0	MG/KG
Lead	a7		4.0	MG/KG
cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	68		2.5	MG/KG
Silver	Nil		1.0	MG/KG

QUALIFIERS: C = CO——— ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-02219 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD019

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	82		1.0	MG/KG
Zinc	100		2.0	MG/KG
Lead	61		4.0	MG/KG
Cadmium	1.7		0.50	MG/KG
Nickel	13		4.0	MG/KG
Copper	36		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
RESULTS IN WET WEIGHT
SAHPLE ID LAB : EE-91-02220 MATRIX: SOLID
SAHPLE ID CLIENT: P30-SD020

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	13		1.0	MG/KG
Zinc	240		2.0	MG/KG
Lead	91		4.0	MG/KG
Cadmium	1.3		0.50	MG/KG
Nickel	4.4		4.0	MG/KG
Copper	21		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-02221 MATRIX: SOLID
SAMPLE ID CLIENT: P30-SD021

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	18		1.0	MG/KG
Zinc	44		2.0	MG/KG
Lead	32		4.0	MG/KG
Cadmium	1.1		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	10		25	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = CO — ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOLID SAMPLES

9100.256

(mg/kg)

Parameter	E & E Laboratory No. 91-02215	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	NC
Chromium		16	16	0
Zinc		78	82	5.0
Lead		120	120	0
Cadmium		1.3	1.1	17
Nickel		ND	ND	NC
Copper		84	80	4.6
Silver		ND	ND	NC

NC = Not calculable

3000481

Ecology and Environment, Iac.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID

PARAMETER	RESULTS	Q	DBT. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9100.256

(mg/kg)

Parameter	E & E Laboratory No. 91-02215	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	200	180	90
Chromium		16	20	35	95
Zinc		78	50	130	104
Lead		120	50	160	80
Cadmium		1.3	5.0	6.2	98
Nickel		ND	50	50	100
Copper		84	25	110	104
Silver		ND	5.0	4.4	88

OUALITY CONTROL FOR PRECISION RESULTS OF ANALYSIS OF REPLICATE ANALYSES OF SOLID SAMPLES

9100.224

(mg/kg)

Parameter	E & E Laboratory No. 91-02056	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	--
Chromium		1.7	ND	--
Zinc		ND	ND	--
Lead		ND	ND	--
Cadmium		ND	ND	--
Nickel		ND	ND	--
Copper		ND	ND	--
Silver		ND	ND	--

JOB NUMBER :9100.224

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
SAMPLE ID LAB :METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	ND		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000483

TEST CODE :SPNTPH1 JOB NUMBER :9100.224

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC TRPH UNITS : MG/KG
PARAMETER : TRPH

SAMPLE ID	RESULTS	Q	DET. LIMIT
EE-91-02051			
P30-SD001	ND		5.0
EE-91-02052			
P01-SD001	230		5.0
EE-91-02053			
P01-SD002	ND		5.0
€E-91-02054			
P01-SD003	6.7		5.0
EE-91-02055			
P01-SD004	ND		5.0
EE-91-02056			
P01-SD005	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

TEST CODE :SPNTPH1 JOB NUMBER r9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC TRPH UNITS : MG/KG
PARAMETER : TRPH

SAMPLE ID	RESULTS	Q	DET. LIMIT
EE-91-02354 P30-SD002	6000		5.0
EE-91-02355 P30-SD003	32000		5.0
EE-91-02356 P30-SD004	440		5.0
EE-91-02357 P30-SD005	180		5.0
EE-91-02358 P30-SD006	10		5.0
EE-91-02359 P30-SD007	120		5.0
EE-91-02360 P30-SD008	40		5.0
EE-9142361 P30-SD009	45		5.0
BE-9142362 P30-SD010	33		5.0
EE-91-02363 P30-SD011	57		5.0
EE-91-02364 P30-SD012	290		5.0
EE-91-02365 P30-SD013	720		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3000484

TEST CODE :SPNTPH1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I CROUPS A-E
TEST NAME : PNC TRPH UNITS : MG/KG
PARAMETER : TRPH

SAMPLE ID	RESULTS	Q	DET. LIMIT
EE-91-02213 P30-SD014	58		5.0
EE-91-02214 P30-SD015	140		5.0
EE-91-02215 P30-SD015 DUP.	40		5.0
EE-91-02216 P30-SD016	170		5.0
EE-91-02217 P30-SD017	52		5.0
EE-91-02218 P30-SD018	64		5.0
EE-91-02219 P30-SD019	100		5.0
EE-91-02220 P30-SD020	36		5.0
EE-91-02221 P30-SD021	44		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOIL SAMPLES

9100.276

(mg/kg)

Parameter	E & E Laboratory No. 91-02357	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
T. Petroleum Hydrocarbons		180	120	40

3000485

TEST CODE :WPNTPH1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
TEST NAME : PNC TRPH UNITS : MG/L
PARAMETER : TRPH

SAMPLE ID	RESULTS	a	DET. LIMIT
METHOD BLANK	ND		1.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

TEST CODE :WPNTPH1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC TRPH UNITS : MG/L
PARAMETER : TRPH

SAMPLE ID	RESULTS	Q	DET. LIMIT
METHOD BLANK	ND		1.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3000486

TEST CODE :WPNTPH1 JOB NUMBER :9100.224

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC TRPE UNITS : MG/L
PARAMETER : TRPH

SAMPLE ID	RESULTS	Q	DET. LIMIT
METHOD BLANK	ND		1.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT
NA = NOT APPLICABLE

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9100.224

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
T.Petroleum Hydrocarbons	2053	ND	220	190	86

3000487

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOIL SAMPLES

9100.224

(mg/kg)

Parametcr	E & E Laboratory No. 91-02056	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
T. Petroleum Hydrocarbons	•	ND	ND	--

TEST CODE :SPNP&P1 JOB NUMBER :9100.224

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET UBI——
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02051 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD001

PARAMETER	RESULTS	a	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000488

TEST CODB :SPNP&P1 JOB NUMBER :9100.276

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02354 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD002

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Bndrln	ND		1000
Chlordane	ND		1000
Total PCBS	PRESENT		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPEPI JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02355 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD003

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	PRESENT	L	5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000489

TEST CODE :SPNP&P1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02356 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD004

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATBD DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02357 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD005

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
494 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000400

TEST CODB :SPNP&P1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02358 MATRIX : SOKD
SAMPLE ID CLIENT: P30-SD006

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDB	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02359 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD007

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000491

TEST CODE :SPNP&PI JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-8
RBSULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : BE-91-02360 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD008

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02361 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD009

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A=E
RESULTS IN VET WEIGHT
TBST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02362 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD010

PARAMETER	RBSULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDB	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02363 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD011

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000493

TEST CODB :SPNP&P1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02364 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD012

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDB	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER r9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02365 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD013

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : BE-91-02213 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD014

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDB	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02214 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD015

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	PRESENT	L	2000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02215 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD015 DUP.

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDB	PRESENT	L	2000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
3 = ESTIMATED VALUE B = ALSO PRESENT IN BUNK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02216 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD016

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	PRESENT	L	2000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02217 HA — : SOLID
SAMPLE ID CLIENT: P30-SD017

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	PRESENT	L	5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAPI JOB NUMBER :9100.256

Ecology and Environment, nc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02218 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD018

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDB	PRESENT	L	2000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		500

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02219 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD019

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology urd Environment, Inc.
Analytical Services Curter

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02220 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD020

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDB	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, fnc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-02221 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD021

PARAMETER	RESULTS.	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4p4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 2364)

9100.276

(ug/kg)

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
Lindane	ND	400	380	95
Heptachlor	ND	100	380	95
Aldrin	ND	400	360	90
Dieldrin	ND	1000	1000	100
Endrin	ND	1000	1100	110
4,4'-DDT	ND	1000	960	96

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 2365)

9100.276

(ug/kg)

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
Lindane	ND	400	380	95
Heptachlor	ND	400	380	95
Aldrin	ND	400	360	90
Dieldrin	ND	1000	1000	100
Endrin	ND	1000	1000	100
4,4'-DDT	ND	1000	910	91

TEST CODE :SPNP&P1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000500

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) FOR PENSACOLA SCREENING
(Sample # 2220)

9100.256

(ug/kg)

Compound	Original Result	Amount Added MS	Amount Determined MS	Percent Recovery MS
Lindane	ND	400	380	95
Heptachlor	ND	400	390	98
Aldrin	ND	400	370	92
Dieldrin	ND	1000	1000	100
Endrin	ND	1000	1000	100
4,4'-DDT	ND	1000	1000	100
Aroclor 1254	ND	5.0	5.0	100

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4- DDT	ND		1000
Dieldrin / 4,4- DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY OF WATER MATRIX SPIKE (MS)
(Sample # 2059)

9100.224

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
Lindane	ND	2.0	2.3	115
Heptachlor	ND	2.0	2.3	115
Aldrin	ND	2.0	2.3	115
Dieldrin	ND	5.0	6.6	132
Endrin	ND	5.0	6.0	120
4,4 -DDT	ND	5.0	4.8	96

ND: None detected.

TEST CODE :WPNP&P1 JOB NUMBER :9100.224

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	a	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000502

TEST CODE : SPNPAH1 JOB NUMBER : 9100.224

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02051 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD001

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	1200		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02354 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD002

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	7700		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02355 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD003

PARAMETER	RBSULTS	Q	DBT. LIMIT
Total as Benzo-a-pyrene	33000		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.276

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02356 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD004

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	30000		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000504

TEST CODE :SPNPAH1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02357 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD005

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	1800		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATBD DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02358 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD006

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	PRESENT	L	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3006505

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02359 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD007

PARAMETER	RESULTS	Q	DBT. LIMIT
Total as Benzo-a-pyrene	5600		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02360 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD008

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	PRESENT	L	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02361 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD009

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	1600		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02362 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD010

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	1200		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

a

3000507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02363 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD011

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	1800		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02364 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD012

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	PRESENT	L	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000508

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02365 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD013

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	1100		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02213 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD014

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RBSULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-02214 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD015

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02215 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD015 DUP.

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Curter

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02216 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD016

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02217 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD017

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02218 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD018

P	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02219 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD019

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02220 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD020

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02221 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD021

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000513

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9100.276

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(A)pyrene	Blank	ND	50	27	56
	2360	ND	50	37	74
	2365	ND	50	30	60

TEST CODE :SPNPAH1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000514

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9100.256

		(ug)			
Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(A)pyrene	Blank	ND	10	6.3	63

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9100.224

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(A)pyrene	2059	ND	50	48	96

TEST CODE :SPNPHL1 JOB NUMBER :9100.224

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 UASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NME : PNC PHENOL - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-02051 MATRIX : SOLID
SMPLE ID CLIENT: P30-SD001

PARAMETER	RESULTS	Q	DET. LIHIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000516

TEST CODE :SPNPHL1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02354 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD002

PARAMETER	RESULTS	Q	DBT. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = CO——— ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATBD DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.276

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02355 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD003

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	61000		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000517

TEST CODE :SPNPHL1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT I UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB I EE-91-02356 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD004

P	RESULTS	O	DBT. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02357 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD005

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	6600		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000518

TEST CODE :SPNPHL1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02358 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD006

PARAMETER	RESULTS	Q	DBT. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER r9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02359 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD007

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	4400		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02360 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD008

PARAMETER	RESULTS	Q	DBT. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.276

Ecology urd Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02361 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD009

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000520

TEST CODE :SPNPHL1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-02362 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD010

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	2600		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE S——— JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02363 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD011

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000521

TEST CODE :SPNPHL1 JOB NUMBER :9100.276

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : 328-91-02364 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD012

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATBD DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02365 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD013

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

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3901'522

TEST CODE :SPNPHL1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I CROUPS A=E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : HE-9142213 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD014

PARAMETER	RESULTS	Q	DBT. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02214 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD015

P	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHLI JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02215 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD015 DUP.

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.256

Ecology urd Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02216 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD016

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	PRESENT	L	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02217 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD017

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02218 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD018

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	PRESENT	L	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000525

TEST CODE :SPNPHL1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02219 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD019

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DBTBCTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.256

Bcology and Environment, Inc.
Analytical Services Curter

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02220 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD020

P	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	2800		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000526

TEST CODE :SPNPHL1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-02221 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD021

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3006527

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9100.276

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Trichlorophenol	2360	ND	50	26	52

TEST CODE :WPNPHL1 JOB NUMBER :9100.224

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.224

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02051 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD001

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1.2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1.2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02354 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD002

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	5200	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.276

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02355 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD003

PARAMETER	RBSULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	5200	B	1000
Trans-1,2, - Dichlorwthene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.276

Bcology and Environment, Inc.
Analytical services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02356 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD004

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	5400	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02357 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD005

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	4500	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		lo00
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02358 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD006

PARAMETER	RESULTS	a	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	4500	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02359 MATRIX : SOKD
SAMPLE ID CLIENT: P30-SD007

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	2700	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethane	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02360 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD008

P	RESULTS	a	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	1800	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I CROUPS A-B
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02361 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD009

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	23000	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER r9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02362 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD010

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	1700	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trfchloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000533

TEST CODE : SPNPRG1 JOB NUMBER r9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02363 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD011

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	1800	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02364 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD012

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	20000	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000534

TEST CODE :SPNPRG1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Curter

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : BE-91-02365 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD013

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	1700	B	1000
Trans-1.2. - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dlchloroathane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02213 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD014

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	19000	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	1000		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02214 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD015

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	9200	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	1100		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02215 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD015 DUP.

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	5100	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethe	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02216 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD016

PARAMETER	RESULTS	a	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	3500	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02217 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD017

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	2900	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02218 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD018

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	2100	B	1000
Trans-1,2, - Dichloroethene	ND		1000
11 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02219 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD019

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	2500	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02220 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD020

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	1400	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-02221 MATRIX : SOLID
SAMPLE ID CLIENT: P30-SD021

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	1400	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.276

Ecology and Bnvironment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK 1 MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Bthylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	5300		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK 2 MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	2900		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000540

TEST CODE :SPNPRG1 JOB NUMBER :9100.276

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
RBSULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK 3 MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	3800		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichlorocthane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY OF SOIL MATRIX SPIKE (MS)
(Sample # 2219)

9100.256

(ug/kg)

Compound	Original Result	Amount Added MS	Amount Determined MS	Percent Recovery MS
Benzene	ND	25000	22000	88
Toluene	ND	25000	23000	92
Ethyl Benzene	ND	25000	24000	96
1,2-Dichlorobenzene	ND	25000	23000	92
1,3-Dichlorobenzene	ND	25000	25000	100
1,4-Dichlorobenzene	ND	25000	26000	104
1,1-Dichloroethene	ND	25000	15000	60
Methylene Chloride	2500	25000	36000	134
Trans-1,2-Dichloroethene	ND	25000	21000	84
1,1-Dichloroethane	ND	25000	24000	96
1,1,1-Trichloroethane	ND	25000	27000	108
1,2-Dichloroethane	ND	25000	23000	92
Trichloroethene	ND	25000	21000	84
Tetrachloroethene	ND	25000	25000	100
Chlorobenzene	ND	25000	24000	96

These recoveries and RPDs are within E & B, Inc. limits.

3000511

TEST CODE :SPNPRG1 JOB NUMBER :9100.256

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	1600		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPRG1 JOB NUMBER :9100.224

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		lo
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethanc	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethanc	ND		10
1,2 - Dichloroethanc	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10
Chlorobenzene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

APPENDIX I

SOIL SAMPLING ANALYTICAL SCREENING RESULTS

H E H O R A N D U M

TO: John Barksdale

FROM: Gary Hahn G Hahn / [illegible]

DATE: January 17, 1991

SUBJECT: Uti-6000 Pensacola Report

REF: 9100.030

CC: Lab File

Attached is the laboratory report of the analysis conducted on sixteen samples received at the Analytical Services Center on January 8, 1991. Analysis vas performed according to the screening procedures set forth in "Generic Ouality Assurance Projcct Plan, Contamination Assessments and Remedial Activities, Naval Air Station Pensacola, Pensacola, Florida," July 1990.

All samples on vhich this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, vith such charges accruing until destruction of the samples is authorized by the client.

GH: tms
enclosure

M E M O R A N D U M

TO: John Barksdale

FROM: Gary Hahn

DATE: January 17, 1991

SUBJECT: UH-6000 Pensacola Report

REP: 9100.025

CC: Lab File

Attached is the laboratory report of the analysis conducted on tventy-tvo samples received at the Analytical Services Center on January 5, 1991. Analysis was performed according to the screening procedures set forth in "Generic Quality Assurance Project Plan, Contamination Assessments and Remedial Activities, Naval Air Station Pensacola, Pensacola, Florida," July 1990.

All samples on vhich this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, vith such charges accruing until destruction of the samples is authorized by the client.

GX: tis
enclosure

ecology and environment, inc.
300 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684 8060
International Specialists in the Environment

9100.025
1366 C59 22 samples NYBy

CHAIN-OF-CUSTODY RECORD

Project No.: UH6050
Project Name: NASP Phase I Geo A-E Screening
Project Manager: John Barkalek
Field Team Leader: Amy Twitty
Samplers: (Signature) Amy Twitty, Joseph Tripp

STATION NUMBER	DATE (FM)	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*		STATION LOCATION	NUMBER OF CONTAINERS	Screening Pesticides	Screening Phenols	Screening Pesticides	Screening Total PCBs	Screening Metals	Screening Oil & Grease	Screening VOCs	REMARKS
P30B009A	1/3	1110	X			Low Levels	113 *	P30B009	2B	X	X	X	X	X	X	X	
P30B011A	1/3	1210	X			" "	114 *	P30B011	2B	X	X	X	X	X	X	X	
P30B006A	1/4	0840	X			" "	93	P30B006	3	X	X	X	X	X	X	X	8 oz Soil Jars: Lot # X0298023 QC # X0879C
P30B006B	1/4	0895	X			" "	94	P30B006	3	X	X	X	X	X	X	X	
P30B006C	1/4	0910	X			" "	95	P30B006	3	X	X	X	X	X	X	X	
P30B006D	1/4	0920	X			" "	96	P30B006	3	X	X	X	X	X	X	X	
P30B006E	1/4	0945	X			" "	97	P30B006	3	X	X	X	X	X	X	X	VOAs: Lot # 09251043 QC # 0886C
P30B003A	1/4	1000	X			" "	98	P30B003	3	X	X	X	X	X	X	X	
P30B003B	1/4	1010	X			" "	99	P30B003	3	X	X	X	X	X	X	X	
P30B003C	1/4	1015	X			" "	100	P30B003	3	X	X	X	X	X	X	X	
P30B003D	1/4	1030	X			" "	1	P30B003	3	X	X	X	X	X	X	X	
P30B001A	1/4	1750	X			" "	2	P30B001	3	X	X	X	X	X	X	X	
P30B001B	1/4	1405	X			" "	3	P30B001	3	X	X	X	X	X	X	X	
P30B001C	1/4	1410	X			" "	104	P30B001	3	X	X	X	X	X	X	X	

Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	Ship Via
A. Twitty	1-4-90 1900	FED.EXP.				Federal Express
Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	
Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	BL/Airbill Number: 7501718022
FED.EXP.	1-5-91 11:30	Rita Marsh				Date: 01-04-90

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on reverse of form.

234055

300C545

ecolo[illegible]d environment, inc.

380 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL 716/684 8060
International Specialists in the Environment

CHAIN OF CUSTODY RECORD

Project No: WK0050
Project Name: NASP Phase I A-E
Project Manager: John Bartscalle
Sampler (Signature): Jim Twitty, Jim Cassalia, Arnold C. Ford
Field Team Leader: Jim Twitty

STATION NUMBER	DATE 1991	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening PAHs	Screening Pesticides	Screening PCBs	Screening Total Metals	Screening Metals	Screening VOCs	REMARKS
P30 S006A	0742	1/5	X			low level	Site 30, boring 8	3	X	X	X	X	X	X	X	
P30 S008B	0747	1/5	X				Site 30, boring 8	3	X	X	X	X	X	X	X	IDL # X0298023
P30 S008C	0755	1/5	X				Site 30, boring 8	3	X	X	X	X	X	X	X	QC # X08796
P30 S007A	0741	1/5	X				Site 30, boring 7	3	X	X	X	X	X	X	X	for 8oz jars
P30 S007B	0745	1/5	X				Site 30, boring 7	3	X	X	X	X	X	X	X	
P30 S007C	0850	1/5	X				Site 30, boring 7	3	X	X	X	X	X	X	X	
P30 S007D	0856	1/5	X				Site 30, boring 7	3	X	X	X	X	X	X	X	
P30 S007E	0902	1/5	X				Site 30, boring 7	3	X	X	X	X	X	X	X	
P30 S005A	1053	1/5	X				Site 30, boring 5	3	X	X	X	X	X	X	X	
P30 S005B	1059	1/5	X				Site 30, boring 5	3	X	X	X	X	X	X	X	
P30 S005C	1105	1/5	X				Site 30, boring 5	3	X	X	X	X	X	X	X	
P30 S002A	1157	1/5	X				Site 30, boring 2	3	X	X	X	X	X	X	X	
P30 S002B	1201	1/5	X				Site 30, boring 2	3	X	X	X	X	X	X	X	
P30 S002C	1206	1/5	X				Site 30, boring 2	3	X	X	X	X	X	X	X	

Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	Ship Via
Jim Twitty	1/7 0824	Fed Ex				Federal Express
Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	BL/Airbill Number: 7501718033
						Date: 1-7-91
Relinquished By (Signature): Fed Ex	Date/Time: 1-8-91 1200	Received For Laboratory By (Signature): Jerry Gerson	Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

234066

ecology and environment, inc.
300 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684 8089
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No: UH6050
Project Name: NASP Phase I Group A-E Screening
Project Manager: John Barksdale
Samplers (Signature): [signature] / Joseph Fugitt
Field Team Leader: Amy Twitty

	STATION NUMBER	DATE (1991)	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*		STATION LOCATION	NUMBER OF CONTAINERS	Screening PAHs	Screening Phenols	Screening Pesticides	Screening Total PCBs	Screening Total Metals	Screening VOCs	REMARKS
P30	S001D	1/4	1430	X			Low Levels	105	P30B001	3	X	X	X	X	X	X	X
P30	S001E	1/4	1430	X			" "	6	P30B001	3	X	X	X	X	X	X	X
P30	S004A	1/4	1457	X			" "	7	P30B004	3	X	X	X	X	X	X	X
P30	S004B	1/4	1505	X			" "	8	P30B004	3	X	X	X	X	X	X	X
P30	S004C	1/4	1520	X			" "	9	P30B004	3	X	X	X	X	X	X	X
P30	S004D	1/4	1525	X			" "	110	P30B004	3	X	X	X	X	X	X	X
P30	S004E	1/4	1535	X			" "	111	P30B004	3	X	X	X	X	X	X	X
P30	S010A	1/4	1615	X			" "	112	P30B010	3	X	X	X	X	X	X	X
				X			" "	—		3	X	X	X	X	X	X	X
				X			" "	—		3	X	X	X	X	X	X	X
				X			" "	—		3	X	X	X	X	X	X	X
				X			" "	—		3	X	X	X	X	X	X	X
				X			" "	—		3	X	X	X	X	X	X	X
				X			" "	—		3	X	X	X	X	X	X	X

REMARKS:
8 oz Soil Jars
Lot # X0298023
QC # X0879C

VOAs:
Lot # B9251043
QC # B886C

Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	Ship Via
[signature]	1-4-91 1900	F.E.				Federal Express
Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	AL/Airbill Number: 7501718022
F.E.	1-5-91 1130	Received For Laboratory By (Signature): R. Marsh			Received For Laboratory By (Signature)	Date: 01-04-90

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form

714055

JOB NUMBER : 9100.030

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
165.01	P30-S002A	SPNPRGl	01/05/91		01/11/91
165.02	P30-S002A	SPNTPHl	01/05/91		01/09/91
165.03	P30-S002A	SPNMET1	01/05/91		01/10/91
		SPNP&P1	01/05/91		01/09/91
		SPNPAH1	01/05/91		01/16/91
		SPNPHL1	01/05/91		01/16/91
166.01	P30-S002B	SPNPRGl	01/05/91		01/11/91
166.02	P30-S002B	SPNTPH1	01/05/91		01/09/91
166.03	P30-S002B	SPNMET1	01/05/91		01/10/91
		SPNP&P1	01/05/91		01/09/91
		SPNP"H1	01/05/91		01/16/91
		SPNP[illegible]1	01/05/91		01/16/91
167.01	P30-S002C	SPNPRGl	01/05/91		01/11/91
167.02	P30-S002C	SPNTPHl	01/05/91		01/09/91
167.03	P30-S002C	SPNMET1	01/05/91		01/10/91
		SPNP&P1	01/05/91		01/09/91
		SPNPAH1	01/05/91		01/16/91
		SPNPRLl	01/05/91		01/16/91
168.01	P30-S002D	SPNPRGl	01/05/91		01/11/91
168.02	P30-S002D	SPNTPHl	01/05/91		01/09/91
168.03	P30-S002D	SPNMET1	01/05/91		01/10/91
		SPNPhPl	01/05/91		01/09/?I
		SPNPAH1	01/05/91		01/16/91
		SPNPHL1	01/05/91		01/16/91
169.01	P30-S002D DUP	SPNPRG1	01/05/91		01/11/91
169.02	P30-S002D DUP	SPNTPHl	01/05/91		01/09/91
169.03	P30-S002D DUP	SPNMET1	01/05/91		01/10/91
		SPNP&P1	01/05/91		01/09/91
		SPNPARl	01/05/91		01/16/91
		SPNPHL1	01/05/91		01/16/91
170.01	P30-S005A	SPNPRGl	01/05/91		01/11/91
170.02	P30-S005A	SPNTPH1	01/05/91		01/09/91
170.03	P30-S005A	SPNMET1	01/05/91		01/10/91
		SPNP&P1	01/05/91		01/09/91
		SPNPAH1	01/05/91		01/16/91
		SPNPRLl	01/05/91		01/16/91
171.01	P30-S005B	SPNPRG1	01/05/91		01/11/91
171.02	P30-S005B	SPNTPHl	01/05/91		01/09/91
171.03	P30-S005B	SPNMET1	01/05/91		01/10/91
		SPNP&P1	01/05/91		01/09/91
		SPNPARl	01/05/91		01/16/91
		SPNPHL1	01/05/91		01/16/91
172.01	P30-S005C	SPNPRGl	01/05/91		01/11/91
172.02	P30-S005C	SPNTPH1	01/05/91		01/09/91
172.03	P30-S005C	SPNMET1	01/05/91		01/10/91
		SPNP&P1	01/05/91		01/09/91
		SPNPAH1	01/05/91		01/16/91

3000546

JOB NUMBER : 9100.030

Ecology and Environment, Inc.
SAHPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAHPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
172.03	P30-S005C	SPNPHLl	01/05/91		01/16/91
173.01	P30-S007A	SPNPRG1	01/05/91		01/11/91
173.02	P30-S007A	SPNTPHl	01/05/91		01/09/91
173.03	P30-S007A	SPNMETl	01/05/91		01/10/91
		SPNP&P1	01/05/91		01/09/91
		SPNPAH1	01/05/91		01/16/91
		SPNPHLl	01/05/91		01/16/91
174.01	P30-S007B	SPNPRG1	01/05/91		01/11/91
174.02	P30-S007B	SPNTPHl	01/05/91		01/10/91
174.03	P30-S007B	SPNMET1	01/05/91		01/10/91
		SPNP&P1	01/05/91		01/09/91
		SPNPAHl	01/05/91		01/16/91
		SPNPHLl	01/05/91		01/16/91
175.01	P30-S007C	SPNPRGl	01/05/91		01/11/91
175.02	P30-S007C	SPNTPHl	01/05/91		01/10/91
175.03	P30-S007C	SPNMETl	01/05/91		01/10/91
		SPNP&P1	01/05/91		01/09/91
		SPNPAHl	01/05/91		01/16/91
		SPNPHL1	01/05/91		01/16/91
176.01	P30-S007D	SPNPRGl	01/05/91		01/11/91
176.02	P30-S007D	SPNTPHl	01/05/91		01/10/91
176.03	P30-S007D	SPNMETl	01/05/91		01/10/91
		SPNP&P1	01/05/91		01/09/91
		SPNPAHl	01/05/91		01/16/91
		SPNPHLl	01/05/91		01/16/91
177.01	P30-S007E	SPNPRG1	01/05/91		01/11/91
177.02	P30-S007E	SPNTPHl	01/05/91		01/10/91
177.03	P30-S007E	SPNMETl	01/05/91		01/10/91
		SPNP&P1	01/05/91		01/09/91
		SPNPAHl	01/05/91		01/16/91
		SPNPHLl	01/05/91		01/16/91
178.01	P30-S008A	SPNPRGl	01/05/91		01/11/91
178.02	P30-S008A	SPNTPH1	01/05/91		01/10/91
178.03	P30-S008A	SPNMETl	01/05/91		01/10/91
		SPNP&P1	01/05/91		01/09/91
		SPNPAHl	01/05/91		01/16/91
		SPNPHLl	01/05/91		01/16/91
179.01	P30-S008B	SPNPRGl	01/05/91		01/11/91
179.02	P30-S008B	SPNTPHl	01/05/91		01/10/91
179.03	P30-S008B	SPNMETl	01/05/91		01/10/91
		SPNP&P1	01/05/91		01/09/91
		SPNPAHl	01/05/91		01/16/91
		SPNPHLl	01/05/91		01/16/91
180.01	P30-S008C	SPNPRG1	01/05/91		01/11/91
180.02	P30-S008C	SPNTPHl	01/05/91		01/10/91
180.03	P30-S008C	SPNMETl	01/05/91		01/10/91
		SPNP&P1	01/05/91		01/09/91

JOB NUMBER : 9100.030

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
180.03	P30-S008C	SPNPAH1	01/05/91		01/16/91
		SPNPHL1	01/05/91		01/16/91

3000547

JOB NUMBER : 9100.025

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
93.01	P30S006A	SPNPRGl	01/04/91		01/07/91
93.02	P30S006A	SPNTPHl	01/04/91		01/07/91
93.03	P30S006A	SPNMETl	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAHl	01/04/91		01/08/91
		SPNPHLl	01/04/91		01/08/91
94.01	P30S006B	SPNPRGl	01/04/91		01/07/91
94.02	P30S006B	SPNTPHl	01/04/91		01/07/91
94.03	P30S006B	SPNMET1	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAHl	01/04/91		01/08/91
		SPNPHLl	01/04/91		01/08/91
95.01	P30S006C	SPNPRGl	01/04/91		01/07/91
95.02	P30S006C	SPNTPHl	01/04/91		01/07/91
95.03	P30S006C	SPNMET1	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAHl	01/04/91		01/08/91
		SPNPHLl	01/04/91		01/08/91
96.01	P30S006D	SPNPRG1	01/04/91		01/07/91
96.02	P30S006D	SPNTPHl	01/04/91		01/07/91
96.03	P30S006D	SPNMET1	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAB1	01/04/91		01/08/91
		SPNPHLl	01/04/91		01/08/91
97.01	P30S006E	SPNPRGl	01/04/91		01/07/91
97.02	P30S006E	SPNTPHl	01/04/91		01/07/31
97.03	P30S006E	SPNHETl	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAH1	01/04/91		01/08/91
		SPNPHLl	01/04/91		01/OR /91
98.01	P30S003A	SPNPRGl	01/04/91		01/07/91
98.02	P30S003A	SPNTPHl	01/04/91		01/07/91
98.03	P30S003A	SPNMETl	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAHl	01/04/91		01/08/91
		SPNPHLl	01/04/91		01/08/91
99.01	P30S003B	SPNPRGl	01/04/91		01/07/91
99.02	P30S003B	SPNTPHl	01/04/91		01/07/91
99.03	P30S003B	SPNMETl	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAHl	01/04/91		01/08/91
		SPNPHLl	01/06/91		01/08/91
100.01	P30S003C	SPNPRG1	01/04/91		01/07/91
100.02	P30S003C	SPNTPHl	01/04/91		01/07/91
100.03	P30S003C	SPNHETl	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAHl	01/04/91		01/08/91

JOB NUMBER : 9100.025

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
100.03	P30S003C	SPNPHL1	01/04/91		01/08/91
101.01	P30S003D	SPNPRGl	01/04/91		01/07/91
101.02	P30S003D	SPNTPHl	01/04/91		01/07/91
101.03	P30S003D	SPNMET1	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAH1	01/04/91		01/08/91
		SPNPHL1	01/04/91		01/08/91
102.01	P30S001A	SPNPRGl	01/04/91		01/07/91
102.02	P30S001A	SPNTPH1	01/04/91		01/07/91
102.03	P30S001A	SPNMET1	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAH1	01/04/91		01/08/91
		SPNPHLl	01/04/91		01/08/91
103.01	P30S001B	SPNPRG1	01/04/91		01/07/91
103.02	P30S001B	SPNTPH1	01/04/91		01/97/01
103.03	P30S001B	SPNMET1	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAH1	01/04/91		01/09/91
		SPNPHL1	01/04/91		01/09/91
104.01	P30S001C	SPNPRGl	01/04/91		01/07/31
104.02	P30S001C	SPNTPH1	01/04/91		01/07/91
104.03	P30S001C	SPNMET1	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAH1	01/04/91		01/09/91
		SPNPHLl	01/04/91		01/09/91
105.01	P30S001D	SPNPRGl	01/04/91		01/07/91
105.02	P30S001D	SPNTPHl	01/04/91		01/07/91
105.03	P30S001D	SPNMET1	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAH1	01/04/91		01/09/91
		SPNPHL1	01/04/91		01/09/91
106.01	P30S001E	SPNPRGl	01/04/91		01/07/91
106.02	P30S001E	SPNTPHl	01/04/91		01/07/91
106.03	P30S001E	SPNMET1	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAH1	01/04/91		01/09/91
		SPNPHLl	01/04/91		01/09/91
107.01	P30S004A	SPNPRGl	01/04/91		01/07/91
107.02	P30S004A	SPNTPH1	01/04/91		01/07/91
107.03	P30S004A	SPNMET1	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAH1	01/04/91		01/09/91
		SPNPHL1	01/04/91		01/09/91
108.01	P30S004B	SPNPRGl	01/04/91		01/07/91
108.02	P30S004B	SPNTPHl	01/04/91		01/07/91
108.03	P30S004B	SPNMET1	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91

JOB NUMBER : 9100.025

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
108.03	P30S004B	SPNPAHl	01/04/91		01/09/91
		SPNPHLl	01/04/91		01/09/91
109.01	P30S004C	SPNPRGl	01/04/91		01/07/91
109.02	P30S004C	SPNTPHl	01/04/91		01/07/91
109.03	P30S004C	SPNMET1	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAHl	01/04/91		01/09/91
		SPNPHLl	01/04/91		01/09/91
110.01	P30S004D	SPNPRG1	01/04/91		01/07/91
110.02	P30S004D	SPNTPHl	01/04/91		01/07/91
110.03	P30S004D	SPNHETl	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAHl	01/04/91		01/09/91
		SPNPHLl	01/04/91		01/09/91
111.01	P30S004E	SPNPRGl	01/04/91		01/07/91
111.02	P30S004E	SPNTPHl	01/04/91		01/07/91
111.03	P30S004E	SPNHETl	01/04/91		01/08/91
		SPNP&P1	01/04/91		01/08/91
		SPNPAH1	01/04/91		01/09/91
		SPNPHLl	01/04/91		01/09/91
112.01	P30S010A	SPNPRGl	01/04/91		01/07/91
112.02	P30S010A	SPNTPHl	01/04/91		01/07/91
112.03	P30S010A	SPNHETl	01/04/91		01/08/91
		SPNPQPl	01/04/91		01/08/91
		SPNPAHl	01/04/91		01/09/91
		SPNPHLl	01/04/91		01/09/91
113.01	P30S009A	SPNPRGl	01/03/91		01/07/91
113.02	P30S009A	SPNMET1	01/03/91		01/08/91
		SPNP&P1	01/03/91		01/08/91
		SPNPAHl	01/03/91		01/10/91
		SPNPHLl	01/03/91		01/10/91
		SPNTPHl	01/03/91		01/07/91
114.01	P30S011A	SPNPRG1	01/03/91		01/07/91
114.02	P30S011A	SPNMET1	01/03/91		01/08/91
		SPNP&P1	01/03/91		01/08/91
		SPNPAHl	01/03/91		01/10/91
		SPNPHLl	01/03/91		01/10/91
		SPNTPHl	01/03/91		01/07/91

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-00102 MATRIX: SOLID
SAMPLE ID CLIENT: P30S001A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	NO		6.9	MG/KG
Chromium	5.1		1.0	MG/KG
Zinc	5.4		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	0.68		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET VEIGHT
SAMPLE ID LAB : EE-91-00103 MATRIX: SOLID
SAMPLE ID CLIENT: P30S001B

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-00104 MATRIX: SOLID
SAMPLE ID CLIENT: P30S001C

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.2		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE 6 = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-00105 MATRIX: SOLID
SAHPLE ID CLIENT: P30S001D

PARAHETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	3.5		1.0	MG/KG
Zinc	2.5		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00106 MATRIX: SOLID
SAMPLE ID CLIENT: P30S001E

PARAMETER	RESULTS	Q	DET LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	2.1		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00165 MATRIX: SOLID
SAHPLE ID CLIENT: P30-S002A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	2.1		1.0	MG/KG
Zinc	5.9		2.0	MG/KG
Lead	IUD		4.0	MG/KG
Cadmium	1.1		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UM-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAHPLE ID LAB : EE-91-00166 MATRIX: SOLID
SAMPLE ID CLIENT: P30-S002B

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	2.0		1.0	MG/KG
Zinc	2.8		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.SO	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.s	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000552

METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : **UH-6000** NASP PHASE **I** GROUPS A-E
RESULTS IN **WET** WEIGHT
SAMPLE ID LAB : EE-91-00167 MATRIX: SOLID
SAMPLE ID CLIENT: P30-S002C

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	2.1		2.0	MG/KG
Lead	ND		1.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
SAMPLE ID LAB : €E-91-00168 MATRIX: SOLID
SAMPLE ID CLIENT: P30-S002D

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.6		1.0	MG/KG
Zinc	3.0		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

HETALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00169 MATRIX: SOLID
SAMPLE ID CLIENT: P30-S002D DUP

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.6		1.0	MG/KG
Zinc	4.3		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 UASP PRASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00098 MATRIX: SOLID
SAMPLE ID CLIENT: P30S003A

PARAMETER	RESULTS	Q	DET. LIHIT	UNITS
Arsenic	ND		6.9	MG/KG
Chronium	2.6		1.0	MG/KG
Zinc	3.0		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	0.51		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3000554

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UR-6000 NASP PEASE I GROUPS A-E
RESULTS IN VET WEIGHT
SAHPLE ID LAB : EE-91-00099 MATRIX: SOLID
SAMPLE ID CLIENT: P30S003B

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.9		1.0	MG/KG
Zinc	3.1		2.0	MG/KG
Lead .	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COHHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00100 HATRIX: SOLID
SAMPLE ID CLIENT: P30S003C

PARAMETER	RESULTS	Q	DET. LIHIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.6		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3000555

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00101 MATRIX: SOLID
SAMPLE ID CLIENT: P30S003D

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.1		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickcl	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUHBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00107 MATRIX: SOLID
SAXPLE ID CLIENT: P30S004A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	2.3		1.0	MG/KG
Zinc	2.0		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3000556

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAHPLE ID LAB : EE-91-00108 MATRIX: SOLID
SAHPLE ID CLIENT: P30S004B

PARAHETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	4.0		1.0	MG/KG
Zinc	3.0		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	0.84		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COHMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00109 MATRIX: SOLID
SAHPLE ID CLIENT: P30S004C

PARAMETER	RESULTS	Q	DET. LIHIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.4		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET VEIGHT
SAMPLE ID LAB : EE-91-00110 MATRIX: SOLID
SAHPLE ID CLIENT: P30S004D

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	2.2		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAUPLE ID LAB : EE-91-00111 MATRIX: SOLID
SAMPLE ID CLIENT: P30S004E

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.8		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3000558

METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00170 MATRIX: SOLID
SAHPLE ID CLIENT: P30-S005A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	2.7		1.0	MG/KG
Zinc	3.4		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
3 = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAHPLE ID LAB : €E-91-00171 MATRIX: SOLID
SAMPLE ID CLIENT: P30-S005B

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	@ID		6.9	MG/KG
Chromium	9.5		1.0	MG/KG
Zinc	5.0		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00172 HATRIX: SOLID
SAHPLE ID CLIENT: P30-S005C

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	5.9		1.0	MG/KG
Zinc	4.8		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I CROUPS A-E
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-00093 MATRIX: SOLID
SAUPLE ID CLIENT: P30S006A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	3.5		1.0	MG/KG
Zinc	12		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

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JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00094 MATRIX: SOLID
SAMPLE ID CLIENT: P30S0068

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	2.0		1.0	MG/KG
Zinc	2.8		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

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JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-00095 MATRIX: SOLID
SAMPLE ID CLIENT: P30S006C

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.6		1.0	MG/KG
Zinc	2.1		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3000561

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PRASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00096 MATRIX: SOLID
SAMPLE ID CLIENT: P30S006D

PARAUETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	2.2		1.0	MG/KG
Zinc	2.9		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
SAHPLE ID LAB : EE-91-00097 MATRIX: SOLID
SAMPLE ID CLIENT: P30S006E

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	15		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	0.55		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	2.8		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3000562

METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-00173 MATRIX: SOLID
SAHPLE ID CLIENT: P30-S007A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	2.2		1.0	MG/KG
Zinc	6.6		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : €E-91-00174 MATRIX: SOLID
SAMPLE ID CLIENT: P30-S007B

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	2.5		1.0	MG/KG
Zinc	4.6		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : €E-91-00175 HATRIX: SOLID
SAMPLE ID CLIENT: P30-S007C

PARAHETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.1		1.0	MG/KG
Zinc	4.5		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00176 MATRIX: SOLID
SAMPLE ID CLIENT: P30-S007D

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	3.3		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAHPLE ID LAB : EE-91-00177 MATRIX: SOLID
SAHPLE ID CLIENT: P30-S007E

PARAHETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.2		1.0	MG/KG
Zinc	2.3		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.3	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAUPLE ID LAB : EE-91-00178 MATRIX: SOLID
SAUPLE ID CLIENT: P30-S008A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.8		1.0	MG/KG
Zinc	4.0		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : €E-91-00179 MATRIX: SOLID
SAMPLE ID CLIENT: P30-S0088

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	18		1.0	MG/KG
Zinc	3.4		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UR-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-00180 MATRIX: SOLID
SAMPLE ID CLIENT: P30-S008C

PARAMETER	RESULTS	Q	DET. UHIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.0		1.0	MG/KG
Zinc	2.6		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000566

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00113 MATRIX: SOLID
SAMPLE ID CLIENT: P30S009A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	71		1.0	MG/KG
Zinc	4.2		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
SAHPLE ID LAB : EE-91-00112 MATRIX: SOLID
SAHPLE ID CLIENT: P30S010A

PARAMETER	RESULTS	Q	DET. UHIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	2.6		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3006567

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00114 MATRIX: SOLID
SAMPLE ID CLIENT: P30S011A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	2.0		1.0	MG/KG
Zinc	5.9		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	0.60		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9100.030

(mg/kg)

Parameter	E & E Laboratory No. 91-00180	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	200	250	125
Chromium		1.0	20	28	135
Zinc		2.6	50	65	125
Lead		ND	50	57	114
Cadmium		ND	5.0	6.1	12:
Nickel		ND	50	57	114
Copper		ND	2s	29	116
Silver		ND	5.0	6.0	120

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METALS SECTION JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOIL SAMPLES

9100.025

(mg/kg)

Parameter	E & E Laboratory No. 91-00093	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	--
Chromium		3.s	6.2	56
Zinc		12	16	28
Lead		ND	ND	--
Cadmium		ND	0.80	--
Nickel		ND	ND	--
Copper		ND	ND	--
Silver		ND	ND	--

3000569

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9100.025

(mg/kg)

Parameter	E & E Laboratory No. 91-00093	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	200	150	75
Chromium		3.5	20	22	92
Zinc		12	50	54	a4
Lead		ND	50	36	72
Cadmium		ND	5.0	4.9	98
Nickel		ND	50	38	76
Copper		ND	25	23	92
Silver		ND	5.0	4.1	82

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOIL SAMPLES

9100.025

(mg/kg)

Parameter	E & E laboratory No. 91-00113	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	--
Chromium		71	80	12
Zinc		0.2	3.5	18
Lead		ND	ND	--
Cadmium		ND	ND	--
Nickel		ND	ND	--
Copper		ND	ND	--
Silver		ND	ND	--

3000570

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9100.025

(mg/kg)

Paramcter	E & E Laboratory No. 91-00113	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	200	170	85
Chromium		71	20	90	95
Zinc		4.2	50	48	88
Lead		ND	50	46	92
Cadmium		ND	5.0	4.8	96
Nickel		ND	50	41	82
Copper		ND	25	27	108
Silver		ND	5.0	5.1	102

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	No		6.9	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
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NA = NOT APPLICABLE

3000571

TEST CODE :SPNTPH1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAHE : PNC TRPH UNITS : MG/KG
PARAMETER : TRPH

SAMPLE ID	RESULTS	Q	DET. LIMIT
EE-91-00165 P30-S002A	14		5.0
EE-91-00166 P30-S002B	16		5.0
EE-91-00167 P30-S002C	20		5.0
EE-91-00168 P30-S002D	29		5.0
EE-91-00169 P30-S002D DUP	11		5.0
EE-91-00170 P30-S005A	65		5.0
EE-91-00171 P30-S005B	42		5.0
EE-91-00172 P30-S005C	17		5.0
EE-91-00173 P30-S007A	17		5.0
EE-91-00174 P30-S007B	33		5.0
EE-91-00175 P30-S007C	50		5.0
EE-91-00176 P30-S007D	39		5.0
€E-91-00177 P30-S007E	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

TEST CODE :SPNTPH1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC TRPH UNITS : MG/KG
PARAMETER : TRPH

SAMPLE ID	RESULTS	Q	DET. LIMIT
EE-91-00178 P30-S008A	12		5.0
EE-91-00179 P30-S008B	11		5.0
EE-91-00180 P30-S008C	12		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

QUALITY CONTROL F9R PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOIL SAMPLES

9100.030

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
T. Petroleum Hydrocarbons	00177	ND	11	--

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY FOR SPIKED SOIL SAMPLES

9100.030

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
T.Petroleum Eydrocarbons	00171	42	790	750	90

3000573

JOB NUNBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00093 HATRIX: SOLID
SAMPLE ID CLIENT: P30S006A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00094 MATRIX: SOLID
SAMPLE ID CLIENT: P30S006B

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3000574

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00095 MATRIX: SOLID
SAMPLE ID CLIENT: P30S006C

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = *ALSO* PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PRASE I GROUPS A-E
SAHPLE ID LAB :EE-91-00096 MATRIX: SOLID
SAHPLE ID CLIENT: P30S006D

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLTENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00097 MATRIX: SOLID
SAMPLE ID CLIENT: P30S006E

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	8.4		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PRASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00098 MATRIX: SOLID
SAMPLE ID CLIENT: P30S003A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUHBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00099 MATRIX: SOLID
SAMPLE ID CLIENT: P30S003B

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
SAUPLE ID LAB :EE-91-00100 MATRIX: SOLID
SAUPLE ID CLIENT: P30S003C

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAHPLE ID LAB :EE-91-00101 MATRIX: SOLID
SAMPLE ID CLIENT: P30S003D

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00102 MATRIX: SOLID
SAMPLE ID CLIENT: P30S001A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	100		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00103 MATRIX: SOLID
SAMPLE ID CLIENT: P30S001B

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	50		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00104 MATRIX: SOLID
SAMPLE ID CLIENT: P30S001C

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	45		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3000579

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00105 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001D

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	110		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00106 MATRIX: SOLID
SAMPLE ID CLIENT: P30S001E

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	43		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00107 MATRIX: SOLID
SAMPLE ID CLIENT: P30S004A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	38		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00108 MATRIX: SOLID
SAMPLE ID CLIENT: P30S004B

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	170		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3000531

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAHPLE ID LAB :EE-91-00109 MATRIX: SOLID
SAMPLE ID CLIENT: P30S004C

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	6.8		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00110 MATRIX: SOLID
SAMPLE ID CLIENT: P30S004D

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00111 MATRIX: SOLID
SAHPLE ID CLIENT: P30S004E

PARAHETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	13		5.0	MG/KG

QUALIFIERS: C = COHHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00112 MATRIX: SOLID
SAMPLE ID CLIENT: P30S010A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	11		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3000533

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00113 MATRIX: SOLID
SAMPLE ID CLIENT: P30S009A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	360		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00114 MATRIX: SOLID
SAMPLE ID CLIENT: P30S011A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
TRPH	300		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3000584

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY FOR SPIKED SOIL SAMPLES

9100.025

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
T.Petroleum Hydrocarbons	00099	ND	750	650	87
	00110	ND	860	700	81

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAHPLE ID LAB : €E-91-00102 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001A

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00103 MATRIX : SOLID
SAHPLE ID CLIENT: P30S001B

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : €E-91-00101 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001C

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
3 = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOU STATED DETECTION LIMIT

3000536

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00105 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001D

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET VEIGET
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00106 MATRIX : SOLID
SAHPLE ID CLIENT: P30S001E

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000537

TEST CODE :SPNP&P1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAHPLE ID LAB : EE-91-00165 HATRIX : SOLID
SAMPLE ID CLIENT: P30-S002A

PARAMETER	RESULTS	Q	DET. LIHIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00166 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002B

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000538

TEST CODE :SPNP&P1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00167 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002C

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAHPLE ID LAB : EE-91-00168 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002D

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000539

TEST CODE :SPNP&P1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UM-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGET
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00169 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002D DUP

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAHPLE ID LAB : EE-91-00098 MATRIX : SOLID
SAMPLE ID CLIENT: P30S003A

PARAHETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindanc	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin .	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

TEST CODE : SPNP&P1 JOB NUMBER : 9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00099 MATRIX : SOLID
SAMPLE ID CLIENT: P30S003B

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00100 MATRIX : SOLID
SAMPLE ID CLIENT: P30S003C

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000591

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET VEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00101 MATRIX : SOLID
SAMPLE ID CLIENT: P30S003D

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	IUD		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00107 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004A

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00108 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004B

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	IUD		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UM-6000 NASP PRASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAHE : PNC PEST./PCB UNITS : UG/KG
SAHPLE ID LAB : EE-91-00109 MATRIX : SOLID
SAHPLE ID CLIENT: P30S004C

PARAMETER	RESULTS	Q	DET. LIHIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : €E-91-00110 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004D

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00111 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004E

PARAMETER	RESULTS	Q	DET. LIHIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

3000534

TEST CODE :SPNP&P1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAHE : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00170 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S005A

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COHHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNP&P1 JOB NUMBER : 9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAHPLE ID LAB : EE-91-00171 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S005B

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00172 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S005C

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00093 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006A

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : **UH-6000** NASP PHASE I **GROUPS** A-E
RESULTS IN WET UEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : €E-91-00094 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006B

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	NO		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		**1000**
Chlordane	ND		**1000**
Total PCBS	ND		**5000**

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00095 MATRIX : SOLID
SAHPLE ID CLIENT: P30S006C

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00096 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006D

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOE NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00097 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006E

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000598

TEST CODE :SPNP&P1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET VEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00173 MATRIX : SOLID
SAHPLE ID CLIENT: P30-S007A

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	NO		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT NO = NOT DETECTED
J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PRASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00174 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S007B

PARAMETER	RESULTS	Q	DET. LIMIT
Eeptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000599

TEST CODE :SPNP&P1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I CROUPS A-E
RESULTS IN WET WEIGHT
TEST NAHE : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00175 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S007C

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COHHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00176 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S007D

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00177 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S007E

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	IUD		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00178 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S008A

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : E€-91-00179 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S008B

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00180 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S008C

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAHE : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : €E-91-00113 MATRIX : SOLID
SAHPLE ID CLIENT: P30S009A

PARAHETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00112 MATRIX : SOLID
SAMPLE ID CLIENT: P30S010A

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindanc	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNP&P1 JOB NUMBER : 9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT OH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00114 MATRIX : SOLID
SAMPLE ID CLIENT: P30S011A

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIHIT

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY *AND* RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) FOR PENSACOLA SCREENING
(Sample # 00165)

9100.030

(ug/kg)

Compound	Original Rcsult	Amount Added MS	Amount Determined MS	Percent Recovery MS
Lindane	ND	2000	2000	100
Heptachlor	ND	2000	2000	100
Aldrin	ND	2000	2000	100
Dieldrin	ND	5000	5500	110
Endrin	ND	5000	5700	114
4,4'-DDT	ND	5000	5000	100

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) FOR PENSACOLA SCREENING
(Sample # 00180)

9100.030

(ug/kg)

Compound	Original Rerult	Amount Added MS	Amount Determined HS	Perccnt Recovery MS
Lindane	ND	2000	2000	100
Heptachlor	ND	2000	2000	100
Aldrin	ND	2000	2100	105
Dicldrin	ND	5000	5600	112
Endrin	ND	5000	5600	112
4,4'-DDT	ND	5000	5000	100

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) FOR PENSACOLA SCREENING
(Sample # 00175)

9100.030

(ug/kg)

Compound	Original Result	Amount Added MS	Amount Determined MS	Percent Recovery MS
Arochlor 1254	ND	25000	25700	103

3000605

TEST CODE : SPNP&P1 JOB NUMBER : 9100.030

Ecology and Environment, **Inc.**
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I **GROUPS** A-E
RESULTS **IN WET WEIGHT**
TEST NAME : PNC PEST./PCB **UNITS** : **UG/KG**
SAHPLE ID LAB : METHOD BLANK MATRIX : SOLID

PARAMETER	RESULTS	**Q**	**DET. LIMIT**
Heptachlor	ND		1000
Lindane	**ND**		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / **4,4** - DDE	ND		1000
Endrin	ND		1000
Chlordane	**ND**		1000
Total **PCBS**	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) FOR PENSACOLA SCREENING
(Sample # 00100)

9100.025

(ug/kg)

Compound	Original Result	Amount Added MS	Amount Determined ns	Percent Recovery ns
Lindane	ND	2000	2000	100
Heptachlor	ND	2000	2000	100
Aldrin	ND	2000	2000	100
Dieldrin	ND	5000	5300	106
Endrin	ND	5000	5400	108
4,4'-DDT	ND	5000	5100	102

3000606

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) FOR PENSACOLA SCREENING
(Sample # 00109)

9100.025

(ug/kg)

Compound	Original Result	Amount Added MS	Amount Determined MS	Percent Recovery MS
Lindane	ND	2000	2000	100
Heptachlor	ND	2000	2000	109
Aldrin	ND	2000	2100	105
Dieldrin	ND	5000	5400	108
Endrin	ND	5000	5400	108
4,4'-DDT	ND	5000	5100	102

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) FOR PENSACOLA SCREENING
(Sample # 00114)

9100.025

(ug/kg)

Compound	Original Result	Amount Added ns	Amount Determined ns	Percent Recovery ns
Lindane	ND	2000	2000	100
Heptachlor	ND	2000	2000	100
Aldrin	ND	2000	2000	100
Dieldrin	ND	5000	5300	106
Endrin	ND	5000	5200	104
4,4'-DDT	ND	5000	5000	100

3000607

TEST CODE :SPNP&P1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET VEIGHT
TEST NAHE : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1090
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4- DDE	ND		1000
Endrin	ND		1009
Chlordane	ND		1000
Total PCBS	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST COD& :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00102 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Bcnzo-a-pyrene	64000		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000608

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00103 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001B

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	1000		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1 JOB NUMBER : 9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAHE : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00104 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001C

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	1500		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000600

TEST CODE : SPNPAH1 **JOB NUMBER** : 9100.025

Ecology and Environment, **Inc.**
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00105 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001D

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	1600		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT **IN BLANK**
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00106 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001E

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

3000610

TEST CODE :SPNPAH1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00165 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00166 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002B

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000611

TEST CODE :SPNPAH1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAHE : PNC PAA - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00167 MATRIX : SOLID
SAHPLE ID CLIENT: P30-S002C

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAR - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00168 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002D

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	PRESENT	L	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000612

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00169 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002D DUP

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	PRESENT	L	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00098 MATRIX : SOLID
SAMPLE ID CLIENT: P30S003A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	19000		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00099 MATRIX : SOLID
SAMPLE ID CLIENT: P30S003B

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	5700		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PAE - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00100 MATRIX : SOLID
SAMPLE ID CLIENT: P30S003C

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	2400		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000614

TEST CODE : SPNPAH1 JOB NUMBER : 9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00101 MATRIX : SOLID
SAMPLE ID CLIENT: P30S003D

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1 JOB NUMBER : 9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00107 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1 JOE NUMBER : 9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAHE : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00108 MATRIX : SOLID
SAHPLE ID CLIENT: P30S0048

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	PRESENT	L	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAHE : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00109 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004C

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000616

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00110 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004D

PARAHETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAE - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00111 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004E

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1 JOB NUMBER : 9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00170 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S005A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	3800		1000

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QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00171 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S005B

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00172 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S005C

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00093 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000619

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SANPLE ID LAB .: EE-91-00094 MATRIX : SOLID
SANPLE ID CLIENT: P30S006B .

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00095 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006C

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00096 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006D

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN VET WEIGHT

TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00097 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006E

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000621

TEST CODE :SPNPAH1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAHE : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00173 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S007A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	PRESENT	L	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00174 MATRIX : SOLID
SAHPLE ID CLIENT: P30-S007B

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000622

TEST CODE :SPNPAH1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAHE : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00175 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S007C

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAB1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAN - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00176 MTRIX : SOLID
SAMPLE ID CLIENT: P30-S007D

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000623

TEST CODE :SPNPAH1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00177 MATRIX : SOLID
SAHPLE ID CLIENT: P30-S007E

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00178 MATRIX : SOLID
SAHPLE ID CLIENT: P30-S008A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000624

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET VEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00179 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S008B

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET VEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00180 HATRIX : SOLID
SAMPLE ID CLIENT: P30-S008C

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	PRESENT	L	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000625

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET VEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00113 MATRIX : SOLID
SAMPLE ID CLIENT: P30S009A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	2000		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00112 MATRIX : SOLID
SAMPLE ID CLIENT: P30S010A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	PRESENT	L	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000626

TEST CODE :SPNPAH1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00114 MATRIX : SOLID
SAMPLE ID CLIENT: P30S011A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	1200		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = *ALSO* PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000627

TEST CODE : SPNPAH1 JOB NUMBER : 9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPHL1 JOB NUMBER : 9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00102 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	200000		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00103 MATRIX : SOLID
SAHPLE ID CLIENT: P30S001B

PARAHETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	18000		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIHIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I CROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00104 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001C

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	16000		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000629

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00105 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001D

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUHBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00106 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001E

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000630

TEST CODE :SPNPHL1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET UEIGHT
TEST NAHE : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00165 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COHMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUHBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00166 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002B

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLTENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00167 HATRIX : SOLID
SAHPLE ID CLIENT: P30-S002C

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00168 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002D

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UNI-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00169 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002D DUP

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : €E-91-00098 MATRIX : SOLID
SAMPLE ID CLIENT: P30S003A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	51000		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00099 MATRIX : SOLID
SAMPLE ID CLIENT: P30S003B

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	20000		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00100 MATRIX : SOLID
SAMPLE ID CLIENT: P30S003C

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	5300		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000634

TEST CODE : SPNPHL1 JOB NUMBER : 9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00101 MATRIX : SOLID
SAMPLE ID CLIENT: P30S003D

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I CROUPS A-E
RESULTS IN VET WEIGHT
TEST NAHE : PNC PEENOL - LC UNITS : UG/KG
SAMPLE ID LAB : E€-91-00107 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPHL1 JOB NUMBER : 9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00108 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004B

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	2900		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAHE : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00109 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004C

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOE NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00110 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004D

PARAMETER	RESULTS	Q	DET. LIHIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00111 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004E

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00170 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S005A

PARAHETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PRASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00171 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S005B

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT MI = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

3000638

TEST CODE :SPNPHL1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00170 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S005A

PARAHETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPHL1 JOB NUMBER : 9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00093 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000630

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00094 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006B

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I CROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00095 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006C

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000610

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : E€-91-00096 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006D

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00097 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006E

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophcnol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000641

TEST CODE :SPNPHL1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00173 MATRIX : SOLID
SAHPLE ID CLIENT: P30-S007A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOE NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAHE : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00174 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S007B

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000642

TEST CODE :SPNPHL1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00175 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S007C

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	3300		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00176 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S007D

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	6900		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000643

TEST CODE :SPNPHL1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00177 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S007E

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	15000		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAHE : PNC PHENOL - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00178 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S008A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	15000		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

3000644

TEST CODE :SPNPHL1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS 'IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00179 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S008B

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	16000		2000

QUALIFIERS: C = COHMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00180 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S008C

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT NU = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00113 MATRIX : SOLID
SAMPLE ID CLIENT: P30S009A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	47000		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00112 MATRIX : SOLID
SAMPLE ID CLIENT: P30S010A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	3500	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAHE : PNC PHENOL - LC UNITS : UG/KG
SANPLE ID LAB : EE-91-00114 MATRIX : SOLID
SAMPLE ID CLIENT: P30S011A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000.

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPHL1 JOB NUMBER : 9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000647

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9100.025

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Trichlorophenol					
	Method Blank	ND	50	76.6	153

TEST CODE :SPNPHL1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIHIT
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000648

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00102 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001A

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	5000	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COHMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00103 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001B

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	4800	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethanc	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethenc	ND		1000
Tetrachloroethenc	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3006643

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00104 MATRIX : SOLID
SAHPLE ID CLIENT: P30S001C

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	4900	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : E€-91-00105 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001D

PARAMETER	RESULTS	Q	DET. LIHIT
Benzene	IUD		1000
Toluene	ND		1000
Ethylbenzene	ID		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	6700	B	1000
Trans-1,2, - Dichloroethcne	ND		1000
1,1 - dichlorocthanc	ND		1000
1,1,1 - Trichlorocthane	ND		1000
1,2 - Dichloroethanc	ND		1000
Trichloroethenc	ND		1000
Tetrachlorocthene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00106 MATRIX : SOLID
SAMPLE ID CLIENT: P30S001E

PARAMETER	RESULTS	Q	DET. LIHIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000.
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Hethylene Chloride	6600	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, lnc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : E€-91-0016s MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002A

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	1100		1000
Methylene Chloride	1100		1000
Trans-1,2, - Dichlorocthcnc	ND		1000
1,1 - dichloroathane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichlorocthanc	ND		1000
Trichloroethcnc	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000651

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLTENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET VEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00166 MATRIX : SOLID
SAHPLE ID CLIENT: P30-S002B

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		'1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	1500		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00167 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002C

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichlorocthene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachlorocthenc	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000652

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLTENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00168 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002D

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1.2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- CC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00169 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S002D DUP

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethenc	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichlorocthenc	ND		1000
1,1 - dichloroethanc	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethanc	ND		1000
Trichloroethene	ND		1000
Tetrachlorocthcnc	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000653

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00098 MATRIX : SOLID
SAMPLE ID CLIENT: P30S003A

PARAHETER	RESULTS	Q	DET. LIHIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	IUD		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	2900	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroe thane	ND		1000
1,1,1 - Trichloroethanc	ND		1000
1,2 - Dichloroe thane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00099 MATRIX : SOLID
SAMPLE ID CLIENT: P30S003B

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethcnc	ND		1000
Methylene Chloride	1900	B	1000
Trans-1,2, - Dichlorocthcne	ND		1000
1,1 - dichlorocthanc	ND		1000
1,1,1 - Trichlorocthanc	ND		1000
1,2 - Dichlorocthanc	ND		1000
Trichloroethenc	ND		1000
Tetrachloroethcne	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000654

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00100 MATRIX : SOLID
SAHPLE ID CLIENT: P30S003C

PARAMETER	RESULTS	Q	DET. LIHIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1.1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1.2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPRG1 JOB NUMBER : 9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00101 MATRIX : SOLID
SAMPLE ID CLIENT: P30S003D

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1.3 - Dichlorobenzene	ND		1000
1.4 - Dichlorobenzene	ND		1000
1.1 - dichloroethcne	ND		1000
Methylene Chloride	5800	B	1000
Trans-1.2. - Dichloroethene	ND		1000
1,1 - dichloroethanc	ND		1000
1,1,1 - Trichloroethane	ND		1000
1.2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachlorocthenc	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00107 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004A

PARAWETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	6700	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- CC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00108 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004B

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	6400	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichlorocthane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethenc	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000650

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00109 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004C

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Hethylene Chloride	*5400*	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAHPLE ID LAB : E€-91-00110 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004D

PARAMETER	RESULTS	Q	DET. LIHIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichlorocthene	ND		1000
Hcthylene Chloride	4100	B	1000
Trans-1,2, - Dichloroethenc .	ND		1000
1,1 - dichlorocthane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichlorocthene	ND		1000
Tetrachlorocthcnc	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000657

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00111 MATRIX : SOLID
SAMPLE ID CLIENT: P30S004E

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	4200	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachlorocthene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIHIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00170 MATRIX : SOLID
SAHPLE ID CLIENT: P30-S005A

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethenc	ND		1000
Hcthylcne Chloride	ND		1000
Trans-1,2, - Dichlorocthenc	ND		1000
1,1 - dichlorocthanc	ND		1000
1,1,1 - Trichlorocthane	ND		1000
1,2 - Dichloroethanc	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000658

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00171 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S005B

PARAMETER	RESULTS	Q	DET. LIHIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00172 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S005C

PARAMETER	RESULTS	Q	DET. UHIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichlorocthcnc	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichlorocthene	ND		1000
1,1 - dichlorocthane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichlorocthane	ND		1000
Trichlorocchcnc	ND		1000
Tetrachlorocthcne	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00093 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006A

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	4600	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN. WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00094 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006B

PARAUETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbcnzenc	ND		1000
Total 'Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	2800	B	1000
Trans-1,2, - Dichloroethenc	ND		1000
1,1 - dichlorocthanc	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachlorocthene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00095 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006C

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	2600	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00096 MATRIX : SOLID
SAMPLE ID CLIENT: P30S006D

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichlorocthenc	ND		1000
Methylene Chloride	7000	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichlorocthcne	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000661

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00097 MATRIX : SOLID
SANPLE ID CLIENT: P30S006E

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	4200	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00173 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S007A

PARAMETER	RESULTS	Q	DET. LIHIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichlorocthene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000662

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00174 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S007B

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PRASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00175 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S007C

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbcnzenc	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichlorocthcne	ND		1000
tiethylene Chloride	ND		1000
Trans-1.2, - Dichloroethene	ND		1000
1,1 - dichlorocthanc	ND		1000
1,1,1 - Trichlorocthane	ND		1000
1,2 - Dichlorocthane	ND		1000
Trichlorocthene	ND		1000
Tetrachlorocthcne	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000663

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00176 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S007D

PARAHETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : €E-91-00177 MATRIX : SOLID
SAHPLE ID CLIENT: P30-S007E

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichlorocthcna	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichlorocthane	ND		1000
1,2 - Dichloroethanc	ND		1000
Trichloroethcne	ND		1000
Tetrachlorocthenc	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000664

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00178 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S008A

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1.2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00179 MATRIX : SOLID
SAMPLE ID CLIENT: P30-S008B

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichlorocthcnc	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichlorocthcnc	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1.2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET VEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00180 MATRIX : SOLID
SAHPLE ID CLIENT: P30-S008C

PARAHETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1.1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00113 MATRIX : SOLID
SAMPLE ID CLIENT: P30S009A

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethcne	ND		1000
Methylene Chloride	6100	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichlorocthane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachlorocthene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000666

TEST CODE : SPNPRG1 JOB NUMBER : 9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00112 MATRIX : SOLID
SAMPLE ID CLIENT: P30S010A

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	4900	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1.1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1.2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAHPLE ID LAB : EE-91-00114 MATRIX : SOLID
SAHPLE ID CLIENT: P30S011A

PARAMETER	RESULTS	Q	DEI. LIMIT
Benzene	ND		1000
Toluene.	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichlorocthcne	ND		1000
Methylene Chloride	3000	B	1000
Trans-1,2, - Dichlorocthcne	ND		1000
1,1 - dichloroethanc	ND		1000
1,1,1 - Trichloroethanc	ND		1000
1,2 - Dichloroethane	ND		1000
Trichlorocthene	ND		1000
Tetrachloroethcne	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9100.030

Compound	E & E Laboratory No. 91-	Percent Recovery
TFT	165	107
	166	107
	167	102
	168	97
	169	96
	170	99
	171	97
	172	91
	173	93
	174	94
	175	89
	176	90
	177	89
	178	89
	179	91
	180	90
	Method Blank	100

TEST CODE :SPNPRG1 JOB NUMBER :9100.030

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIHIT
Benzene	NO		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	IUD		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
?!ethylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	NU		1000
1,2 - Dichlorocthane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9100.025

Compound	E & E Laboratory No. 91-	Percent Recovery
TFT	03	57
	04	57
	95	59
	96	100
	9[illegible]	95
	9[illegible]	91
	99	88
	100	94
	101	88
	102	85
	103	84
	104	87
	105	65
	106	62
	107	67
	108	67
	109	70
	110	70
	111	65
	112	76
	113	76
	114	73
	Method Blank #1	85
	Method Blank #2	61

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK #1 MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichlorocthene	ND		1000
Methylene Chloride	2600		1000
Trans-1,2, - Dichloroethenc	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethcne	ND		1000
Tetrachlorocthcne	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9100.025

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAHPLE ID LAB : HETHOD BLANK #2 MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Hcthylcne Chloride	12000		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00487 MATRIX: VATER
SAMPLE ID CLIENT: P30-GW007

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	930		10	UG/L
Zinc	160		20	UG/L
Lead	ND		40	UG/L
Cadmium	8.8		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		2s	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00488 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW007-D

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	940		10	UG/L
Zinc	49		20	UG/L
Lead	ND		40	UG/L
Cadmium	9.0		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00485 MATRIX: VATER
SAMPLE ID CLIENT: P30-GW002

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	440		10	UG/L
Zinc	83		20	UG/L
Lead	ND		40	UG/L
Cadmium	16		5.0	UG/L
Nickel	ND		40	UG/L
Copper	33		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00486 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW005

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	No		69	UG/L
Chromium	6300		10	UG/L
Zinc	250		20	UG/L
Lead	ND		40	UG/L
Cadmium	360		5.0	UG/L
Nickel	2200		40	UG/L
Copper	74		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

Analyze all parameters according to site specific QAP for this project (See Barb Krajewski)

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CHAIN-OF-CUSTODY RECORD

Page 1

Project No.: UH6050
Project Name: NASP Phase I A-E
Project Manager: John Barksdale
Samplers: (Signatures) Keith Pellemme, Gerald Walker
Field Team Leader: Gerald Walker

	STATION NUMBER	DATE 1990	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening VOCs	Screening PAHs	Screening Phenols	Screening Pesticides/PCBs	Screening Metals	TRPHs (418.1)	REMARKS
P30	GW008	1-8	1800		X		Low level	Temp. Well 008, Site 30	5	X	X	X	X	X	X	VOCs Lot # B9251043 QC # B8860
P30	GW007	1-8	1710		X		" "	Temp. Well 007, Site 30	5	X	X	X	X	X	X	1/2 gal ambers Lot # X0218013 QC # X0711C
P30	GW007-D	1-8	1710		X		" "	Temp. Well 007, Site 30	5	X	X	X	X	X	X	1 L ambers Lot # 9223013 QC # 3282C
																1 L polys Lot # 0304013 QC # 0889C
																① VOCs preserved w/ HCL
																② TRPHs preserved w/ H_2SO_4
																③ Metals preserved w/ HNO_3

Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	Ship Via
		Fed Ex	Fed Ex	1-10-91 11:00		Federal Express
Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	
Relinquished By (Signature) Keith Pellemme	Date/Time 01/09/91	Received For Laboratory By (Signature) Roger Jensen	Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	BL/Airbill Number: 9548745533 Date 1/9/91

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form

214B5

JOB NUMBER : 9100.056

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
485.01	P30-GW002	WPNPRG1	01/08/91		01/14/91
485.03	P30-GW002	WPNP&P1	01/08/91		01/11/91
		WPNPAH1	01/08/91		01/24/91
		WPNPHL1	01/08/91		01/24/91
485.04	P30-GW002	WPNTPH1	01/08/91		01/11/91
485.05	P30-GW002	WPNMET1	01/08/91		01/11/91
486.01	P30-GW005	WPNPRG1	01/08/91		01/14/91
486.03	P30-GW005	WPNP&P1	01/08/91		01/11/91
		WPNPAH1	01/08/91		01/24/91
		WPNPHL1	01/08/91		01/24/91
486.04	P30-GW005	WPNTPH1	01/08/91		01/11/91
486.05	P30-GW005	WPNMET1	01/08/91		01/11/91
487.01	P30-GW007	WPNPRG1	01/08/91		01/14/91
487.03	P30-GW007	WPNP&P1	01/08/91		01/11/91
		WPNPAH1	01/08/91		01/24/91
		WPNPHL1	01/08/91		01/24/91
487.04	P30-GW007	WPNTPH1	01/08/91		01/11/91
487.05	P30-GW007	WPNMET1	01/08/91		01/11/91
488.01	P30-GW007-D	WPNPRG1	01/08/91		01/14/91
488.03	P30-GW007-D	WPNP&P1	01/08/91		01/11/91
		WPNPAH1	01/08/91		01/24/91
		WPNPHL1	01/08/91		01/24/91
488.04	P30-GW007-D	WPNTPH1	01/08/91		01/11/91
488.05	P30-GW007-D	WPNMET1	01/08/91		01/11/91
489.01	P30-GW008	WPNPRG1	01/08/91		01/14/91
409.03	P30-GW008	WPNP&P1	01/08/91		01/11/91
		WPNPAH1	01/08/91		01/24/91
		WPNPHL1	01/08/91		01/24/91
489.04	P30-GW008	WPNTPH1	01/08/91		01/11/91
489.05	P30-GW008	WPNMET1	01/08/91		01/11/91
490.01	P30-GW010	WPNPRG1	01/09/91		01/14/91
490.03	P30-GW010	WPNP&P1	01/09/91		01/11/91
		WPNPAH1	01/09/91		01/24/91
		WPNPHL1	01/09/91		01/24/91
490.04	P30-GW010	WPNTPH1	01/09/91		01/11/91
490.05	P30-GW010	WPNMET1	01/09/91		01/11/91

M E M O R A N D U M

TO: John Barksdale

FROM: Gary Hahn

DATE: February 8, 1991

SUBJECT: UH-6000 Pensacola Report

REP: 9100.056

CC: Lab Pile

Attached is the laboratory report of the analysis conducted on six samples received at the Analytical Services Center on January 10, 1991. Analysis vas performed according to the screening procedures set forth in "Generic Quality Assurance Project Plan, Contamination Assessments and Remedial Activities, Naval Air Station Pensacola, Pensacola, Florida," July 1990.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH:tms
enclosure

Sample Range 485 → 490
Job #

Analyze all parameters according to site specific QAP for this project. (see Barb Krajewski)

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International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No: UH6050
Project Name: NASP Phase I A-E
Project Manager: John Barksdale
Samplers (Signatures): Keith Delhome, Gerald Walker
Field Team Leader: Gerald Walker

STATION NUMBER	DATE 1990	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening VOCs	Screening PAHs	Screening phenols	Screening pesticides + PCBs	Screening Metals	TRPHs (4 L ea.)	REMARKS
30 6W002	1-8	1530		X		Low level	Temp. well 002, Site 30	5	X	X	X	X	X	X	VOCs: Lot # B9251043 QC# B3860
30 6W005	1-8	1615		X		" "	Site 30, Temp. well 005	5	X	X	X	X	X	X	
30 6W010	1-9	0941		X		" "	Site 30, Temp. Well 010	5	X	X	X	X	X	X	
															1 gal ambers: Lot# X0218013 QC# X0711C
															1 L ambers: Lot # 9223013 QC # 3282C
															1 L polys Lot # 0304013 QC# 0889C
															① VOCs preserved with HCL
															② TRPHs preserved with H_2SO_4
															③ Metals preserved with HNO_3

Relinquished By (Signature)	Date/Time:	Received By (Signature)	Relinquished By (Signature)	Date/Time:	Received By (Signature)	Ship Via
		Fed Ex	Fed Ex	1-10-91 11:00		Federal Express
Relinquished By (Signature)	Date/Time:	Received By (Signature)	Relinquished By (Signature)	Date/Time:	Received By (Signature)	BL/Airbill Number: 9548745533
Relinquished By (Signature): Keith Delhome	Date/Time: 01/09/91	Received for Laboratory By (Signature): Brian Jones	Relinquished By (Signature)	Date/Time:	Received For Laboratory By (Signature)	Date: 1/9/91

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.

234065

300671

APPENDIX J

GROUNDWATER SAMPLING ANALYTICAL SCREENING RESULTS

TEST CODE :WPNP&P1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAHPLE ID LAB : EE-91-00485 MATRIX: WATER
SAHPLE ID CLIENT: P30-GW002

PARAMETER	RESULTS	Q	DET. LIMIT
Haptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNP&P1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : BE-91-00486 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW005

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDB	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000676

TEST CODE :WPNP&P1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAHPLE ID LAB : EE-91-00485 MATRIX: WATER
SAHPLE ID CLIENT: P30-GW002

PARAMETER	RESULTS	Q	DET. LIMIT
Haptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNTPH1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC TRPH UNITS : MG/L
PARAMETER : TRPH

SAMPLE ID	RESULTS	Q	DET. LIMIT
BE-91-00485 P30-GW002	1.1		1.0
EE-91-00486 P30-GW005	ND		1.0
EE-91-00487 P30-GW007	ND		1.0
EE-91-00488 P30-GW007-D	ND		1.0
EE-91-00489 P30-GW008	ND		1.0
EE-91-00490 P30-GW010	ND		1.0
METHOD BLANK	ND		1.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
SAMPLE ID LAB :EE-91-00489 MATRIX: VATER
SAMPLE ID CLIENT: P30-GW008

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	8300		10	UG/L
Zinc	290		20	UG/L
Lead	ND		40	UG/L
Cadmium	80		5.0	UG/L
Nickel	2200		40	UG/L
Copper	74		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
SAMPLE ID LAB :EE-91-00490 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW010

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	500		10	UG/L
Zinc	a0		20	UG/L
Lead	ND		40	UG/L
Cadmium	19		5.0	UG/L
Nickel	72		40	UG/L
Copper	44		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNP&P1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Scrviccs Ccnter

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : BE-91-00487 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW007

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIXIT

TEST CODE :WPNP&P1 JOB NUMBER :9100.056

Ecology and Environment, fnc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-00488 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW007-D

PARAMETER	RESULTS	a	DET. LIMIT
Reptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
494 - DDT	ND		5.0
Dieldrin / 494 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000679

TEST CODE :WPNP&P1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-00489 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW008

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Bndrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNP&P1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-00490 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW010

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin / 4,4 - DDE	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPAH1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAR - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-00485 MTRIX: WATER
SAMPLE ID CLIENT: P30-GW002

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	110		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPAH1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAR - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-00486 MATRIX: UATBR
SAMPLE ID CLIENT: P30-GW005

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000631

TEST CODE :WPNPAH1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-00487 MATRIX: VATBR
SAMPLE ID CLIENT: P30-GW007

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BBLOV STATED DETECTION LIMIT

TEST CODE :WPNPAH1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I CROUPS A-B
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-00488 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW007-D

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPAH1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-00489 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW008

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrenc	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPAH1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-B
TEST NAME : PNC PAR - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-00490 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW010

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPHL1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROWS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-00485 MATRIX: VATER
SAMPLE ID CLIENT: P30-GW002

PARAMETER	RESULTS	Q	DET. LIHIT
Total as Trichlorophenol	320		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPHL1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-H
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-00486 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW005

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000684

TEST CODE :WPNPHL1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-00487 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW007

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophcnol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPHL1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I CROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-00488 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW007-D

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : WPNPHL1 JOB NUMBER : 9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-00489 MATRIX: VATER
SAMPLE ID CLIENT: P30-GW008

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPHL1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 UASP PHASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-00490 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW010

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000686

OUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9100.056

(ug)

Parameter	E & E Laboratory No. 91- BLANK SPIKE	Original Value	Amount Added	Amount Determined	Percent Recovery
Trichlorophenol		ND	SO	39	78

TEST CODE :WPNPRG1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-00485 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW002

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	PRESENT	L	250
Toluene	870		250
Ethylbenzene	330		250
Total Xylenes	1200		250
1,2 - Dichlorobenzene	ND		250
1,3 - Dichlorobenzene	ND		250
1,4 - Dichlorobenzene	ND		250
1,1 - Dichloroethene	ND		250
Methylene Chloride	PRESENT	L	250
Trans - 1,2 - Dichloroethene	ND		250
1,1 - Dichloroethane	ND		250
1,1,1 - Trichloroethane	ND		250
1,2 - Dichloroethane	ND		250
Trichloroethene	ND		250
Tetrachloroethene	ND		250

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000687

TEST CODE :WPNPRG1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-00486 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW005

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		lo
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPRG1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-00487 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW007

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		500
Toluene	ND		500
Ethylbenzene	ND		500
Total Xylenes	ND		500
1,2 - Dichlorobenzene	ND		500
1,3 - Dichlorobenzene	ND		500
1,4 - Dichlorobenzene	ND		500
1,1 - Dichloroethene	ND		500
Methylene Chloride	PRESENT	L	500
Trans - 1,2 - Dichloroethene	ND		500
1,1 - Dichloroethane	PRESENT	L	500
1,1,1 - Trichloroethane	2500		500
1,2 - Dichloroethane	ND		500
Trichloroethene	ND		500
Tetrachloroethene	ND		500

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPRG1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-00488 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW007-D

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		500
Toluene	ND		500
Ethylbenzene	ND		500
Total Xylenes	ND		500
1,2 - Dichlorobenzene	ND		500
1,3 - Dichlorobenzene	ND		500
1,4 - Dichlorobenzene	ND		500
1,1 - Dichloroethene	ND		500
Methylene Chloride	PRESENT	L	500
Trans - 1,2 - Dichloroethene	ND		500
1,1 - Dichloroethane	PRESENT	L	500
1,1,1 - Trichloroethane	2300		500
1,2 - Dichloroethane	ND		500
Trichloroethene	ND		500
Tetrachloroethene	ND		500

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPRG1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-00489 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW008

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000689

TEST CODE :WPNPRG1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-00490 MATRIX: WATER
SAMPLE ID CLIENT: P30-GW010

PARAMETER	RESULTS	Q	DET. LIMIT
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1.1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1.2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :VPNPRG1 JOB NUMBER :9100.056

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	a	DET. LIMIT
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3000600