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NAS PENSACOLA

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FINAL

**CONTAMINATION ASSESSMENT/
REMEDIAL ACTIVITIES INVESTIGATION
SCRAP BINS (SITE 12)
NAVAL AIR STATION PENSACOLA
PENSACOM, FLORIDA

INTERIM DATA REPORT**

October 1991

Contract N62467-88-C-0200

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petroleum hydrocarbons, volatile organic compounds, polynuclear aromatic hydrocarbons, phenols, and polychlorinated biphenyls are the primary contaminants. Some of the detected contamination is probably associated with former and current storage activities at the site; however, additional sources of contamination may be impacting Site 12. A potential source of radiation contamination exists in the southeast area of Site 12; however, the nature of the source material(s) and the extent of the contamination are unknown. Further assessment activities are required at and in the vicinity of Site 12.

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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 the Scrap Bins (Site 12), 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 12 is located approximately 800 feet northwest of Chevalier Field and 600 feet west of Site 11 (North Chevalier Disposal Area). Most of the site area is enclosed by a fence and paved with concrete on which heavy equipment and scrap material is currently stored.

The purpose of the Phase I investigation was to identify principal areas and primary contaminants of concern at the site and to provide recommendations for subsequent phases of investigation. The Phase I fieldwork included an aerial photograph and existing data analysis, site reconnaissance, surface emissions survey and particulate air sampling, radiation survey, metal detector survey, utilities survey, collection and analysis of sediment, soil, and groundwater samples, and a hydrologic assessment.

Sediment, soil, and groundwater contamination are all present on and in the vicinity of Site 12. Metals, total recoverable petroleum hydrocarbons (TRPHs), volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), phenols, and polychlorinated biphenyls (PCBs) are the primary contaminants. Some of the detected contamination is probably associated with former and present storage activities at the site. However, additional sources of contamination may be impacting Site 12.

A potential source of radiation contamination exists in the southeast area of Site 12, where elevated radiation readings (30 to 35 $\mu\text{R}/\text{h}$) were obtained during the radiation survey. However, the nature of the source material(s) and the extent of the contamination are unknown.

The stormwater drain sediment sample (SD001) collected at Site 12 exhibited elevated concentrations of metals, TRPHs, PAHs, and PCBs. These results indicate potential sources of contamination exist within the southwest area of the site--the area served by the drain. The high concentrations of PAHs and PCBs suggest a source exists in close proximity to this area of the site; however, these concentrations also may be residual from some prior on-site leakage. Given that trace levels of PCBs were detected in three soil samples (S007A, S008A, and S010B) and also in two groundwater samples (GW004 and GW009) from Site 12, it is possible that a potential source of PCBs exists in the north portion of the site.

Several localized areas of soil contamination appear to be present. Elevated levels of total metals and TRPHs are generally widespread; however, the contribution of each metal varies from boring to boring across the site, suggesting multiple potential sources. Elevated total metals concentrations exist in the vicinity of soil borings B010, B008, B013, and B001, although the depths at which the potential sources occur may vary. PAR and phenol contaminant distributions also indicate distinct, localized sources within or adjacent to the site area.

Groundwater total metals contamination was identified at Site 12. Metals concentrations exceeding Florida standards were detected in samples collected across the site; some of these occurrences may reflect that turbid groundwater samples were not filtered prior to acid preservation. However, groundwater metals contamination detected has occurred, to some extent, possibly as a result of on-site storage of waste materials observed near buildings 455 and 3821 during the site reconnaissance. Given the groundwater flow direction, groundwater in TW002 in the north portion of the site may also have been impacted by off-site activities, possibly northwest of the site.

PCB concentrations below detection limits in groundwater samples from the north portion of the site indicate a localized potential source

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in that area. Phenol concentrations below detection limits in ground-water samples near Building 455 may be associated with soil phenol contamination in the southwest corner of the site or with potential sources adjacent to the site; however, the source is unknown at this time.

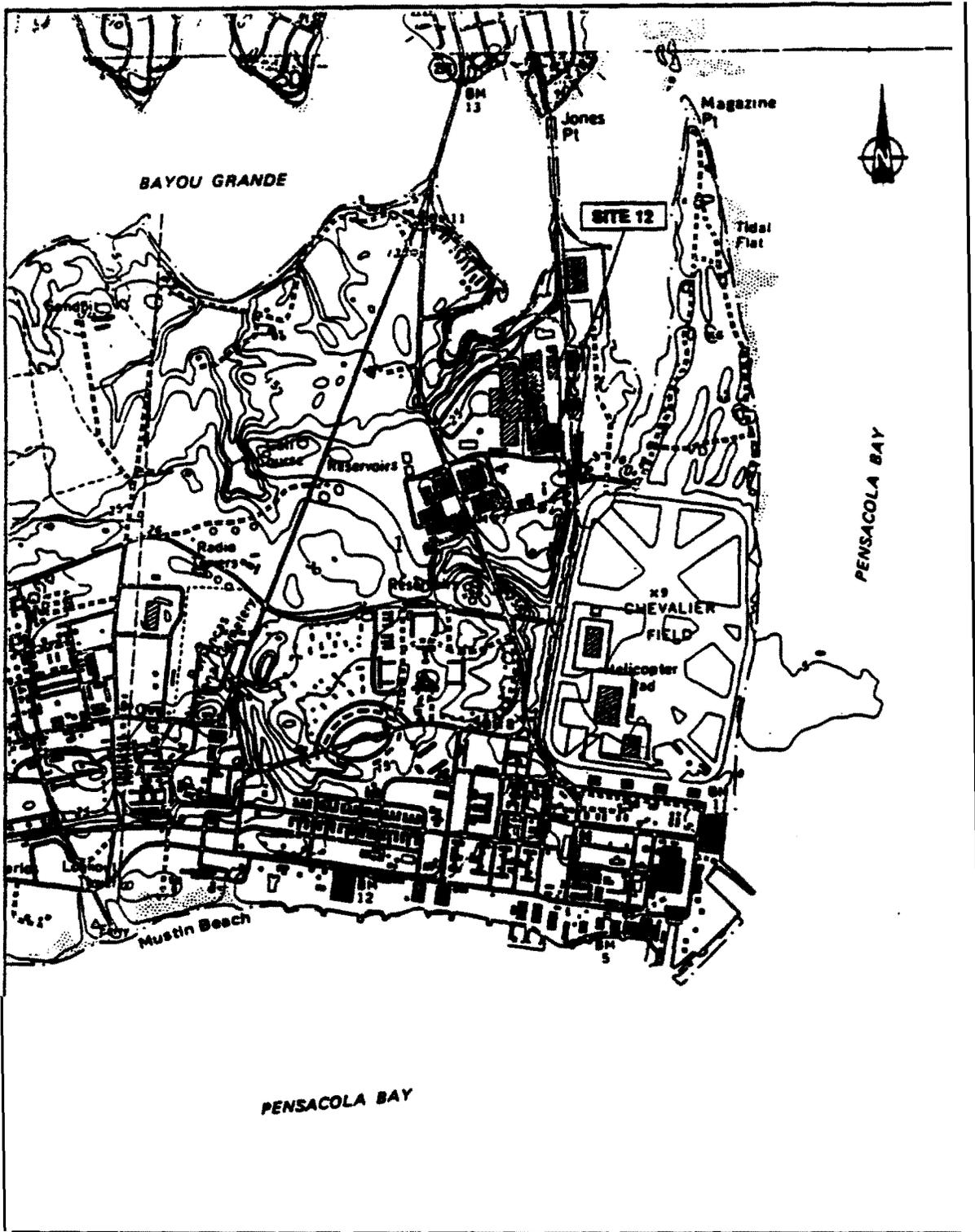
Further assessment activities are required at and in the vicinity of Site 12.

1. INTRODUCTION

This Interim Data Report presents the findings of the Phase I investigation activities performed for the Scrap Bins (Site 12), 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 data and file documents provided by the Navy and on 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 (GOAPP), [July 1990] General Health and Safety Plan, and (June 1990) Contamination Assessment/Remedial Activities Investigation Work Plan--Group B with appended Site-Specific Health and Safety Plan and Site-Specific Quality Assurance Plan. [All references to these documents in this report apply only to the 1990 versions.]

Site 12 is located approximately 800 feet northwest of Chevalier Field and 600 feet west of Site 11 (North Chevalier Disposal Area; see figures 1-1 and 1-2). Most of the site area is enclosed by a fence and paved with concrete on which heavy equipment and scrap material is currently stored.

The purpose of the Phase I investigation was to identify principal areas and primary contaminants of concern at the site and to provide recommendations for subsequent phases of investigation. The Phase I fieldwork included a site reconnaissance, surface emissions survey and particulate air sampling, radiation survey, metal detector survey,

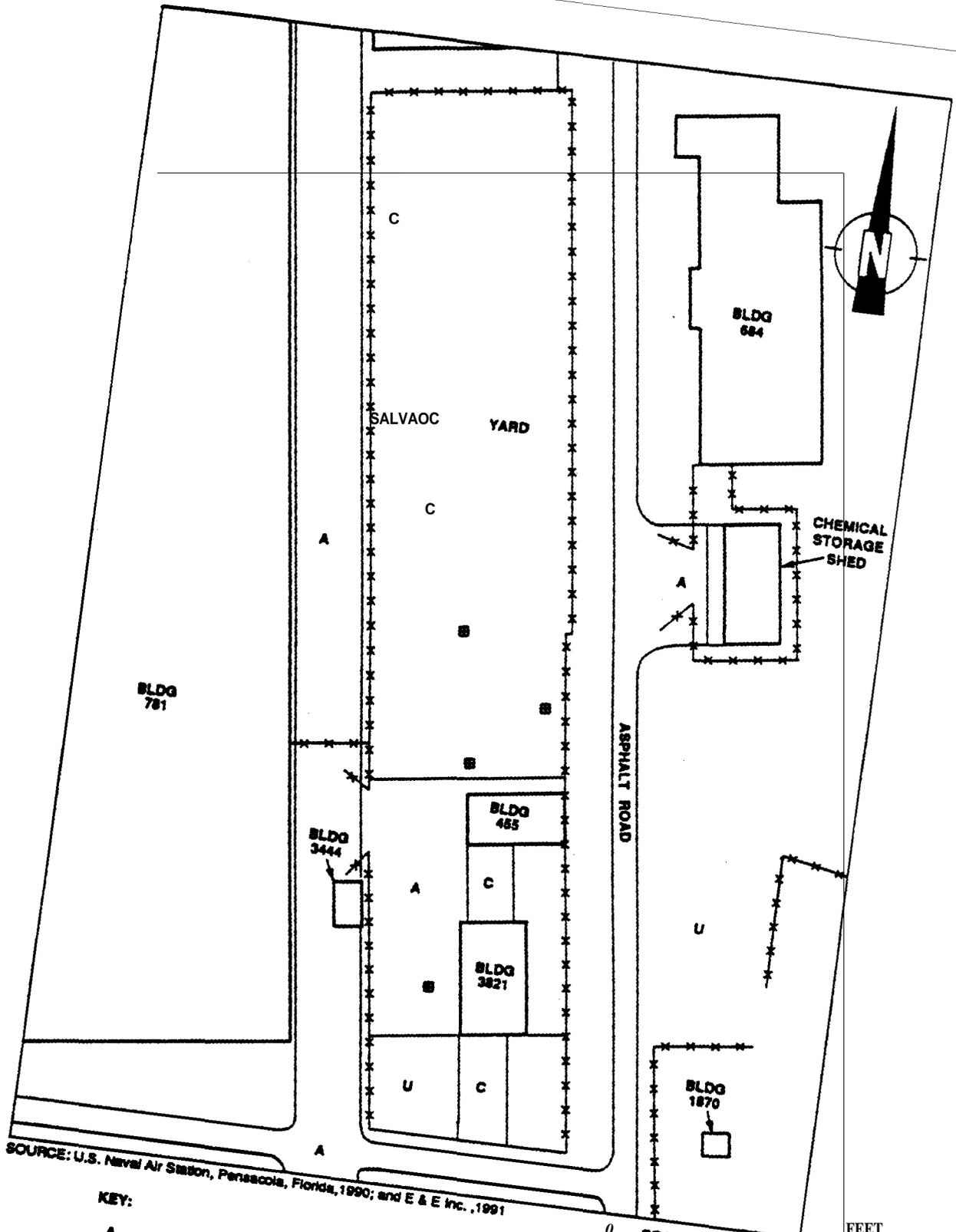


SOURCE: U.S.G.S. 7.5 Minute Series (Topographic) Quadrangle Fort Barrancas, Fla. 1970 and West Pensacola, Fla. 1970, photorevised 1987.



Figure 1-1 LOCATION MAP — NAS PENSACOLA SITE 12

0000375



SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1990; and E & E Inc., 1991

- KEY:**
- A Asphalt Paved Area
 - C Concrete Paved Area
 - U Unpaved Area

-  Building
-  Storm Water Drain
-  Fence

Figure 1-2 SITE

utilities survey, and the collection and analysis of sediment, soil, and groundwater samples. In addition, a hydrologic **assessment**, which included the determination of **groundwater** and surface **water** elevations, groundwater flow direction and hydraulic gradient, and surface **water** flow rates, was performed at the site. The **recommendations** for additional work at this site are presented with this submittal under separate cover.

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 the site. Available aerial photographs and maps were used as guides in locating surface features. Visual inspections were made of surface conditions, vegetation, surface drainage patterns, and areas of exposed site debris. These observations of surface conditions on the site were used to update the site map. During the reconnaissance survey, the field team identified areas which presented the most suitable conditions for the establishment of survey grid baselines. The use of a grid system as part of the Phase I field investigation is discussed in the following sections.

The reconnaissance survey team utilized radiation and air monitoring equipment during walkovers of site areas, in accordance with

Table 2-1

PHOTOGRAPHS AND MAPS USED IN THE AERIAL PHOTOGRAPH ANALYSIS
NAS PENSACOLA SITE 12

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*	5/22/86	1:2,400
	1276912*	9/29/86	1:2,400
Florida Department of Transportation	FD-3886-12-03	10/26/89	1:24,000
	FD-3886-12-04	10/26/89	1:24,000
	FD-3618-12-03	11/21/86	1:24,000
	FD-3618-12-04	11/21/86	1:24,000
	FD-3109-12-03	9/22/83	1:24,000
	FD-3109-12-04	9/22/83	1:24,000
	FD-2684-12B-04	3/9/81	1:24,000
	FD-2684-12B-05	3/9/81	1:24,000
	FD-1888-11-03	4/28/76	1:24,000
	FD-1888-11-04	4/28/76	1:24,000
	FD-1331-11-03	5/4/73	1:24,000
	FD-1331-11-04	5/4/73	1:24,000
	FD-868-5-08	4/6/70	1:24,000
	FD-868-4-09	4/6/70	1:24,000
	FD-616-8-04	3/25/68	1:24,000
	FD-616-8-05	3/25/68	1:24,000
	FD-285-8-01	10/8/64	1:12,000
	FD-285-8-03	10/8/64	1:12,000
	PHS-7054-3-1	10/12/61	1:24,000
	PHS-7054-3-2	10/12/61	1:24,000
U.S. Department of Agriculture	CFF-1V-78	1/3/58	1:24,000
	CFF-4H-17	1/22/51	1:24,000
West Florida Regional Planning Council	FD-3618-12-05	11/21/86	1:4,800

14[NASP]UN6027:T0228/441/23

Key:

*Map.

Source: Ecology and Environment, Inc., 1991.

Section 6.1.1 of the GOAPP. Area "hot spots" were located, 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.

2.3 SURFACE EMISSIONS SURVEY AND PARTICULATE AIR SAMPLING

Following the establishment of the survey grid network (discussed in Section 2.5), a surface emissions survey was conducted using organic vapor analyzer (OVA) air monitoring equipment. The survey was conducted in accordance with Section 6.1.1 of the GOAPP. Measurements were made at each established grid point, and readings were recorded in the field logbook. In addition, preliminary air screening was conducted with a Mini-Ram particulate air 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 GOAPP.

2.4 RADIATION SURVEY

Following the establishment of the survey grid network (discussed in Section 2.5), a radiation survey was conducted using a Bicron micro-R-meter. The survey was conducted in accordance with Section 6.3.[6] of the GOAPP. Measurements were made at each established grid point, and readings were recorded in the field logbook.

2.5 GEOPHYSICAL SURVEY

A metal detector survey was conducted at Site 12 using a standard, portable metal detector/pipe locator. The survey required the initial establishment of a grid system over the study area. To construct the grid, two baselines were established along the north and east perimeters of the site area, and the area was then gridded with spacings based on 100-foot centers. Baseline transects were established using a transit survey instrument and flagged at 25-foot intervals. The grid system was completed relative to an arbitrarily established origin point using a Brunton compass and tape measure. Grid points were flagged and numbered as follows:

Grid X, N (or S) $n_1 + yy$, E (or W) $n_2 + zz$,

where :

- X = Grid letter:
- n_1 = Distance in 100-foot increments north (N) or south (S) from the origin point;
- n_2 = Distance in 100-foot increments east (E) or west (W) from the origin point;
- yy = Additional distance in feet north or south from the nearest previously located 100-foot increment from the grid origin; and
- zz = Additional distance in feet east or west from the nearest previously located 100-foot increment from the grid origin.

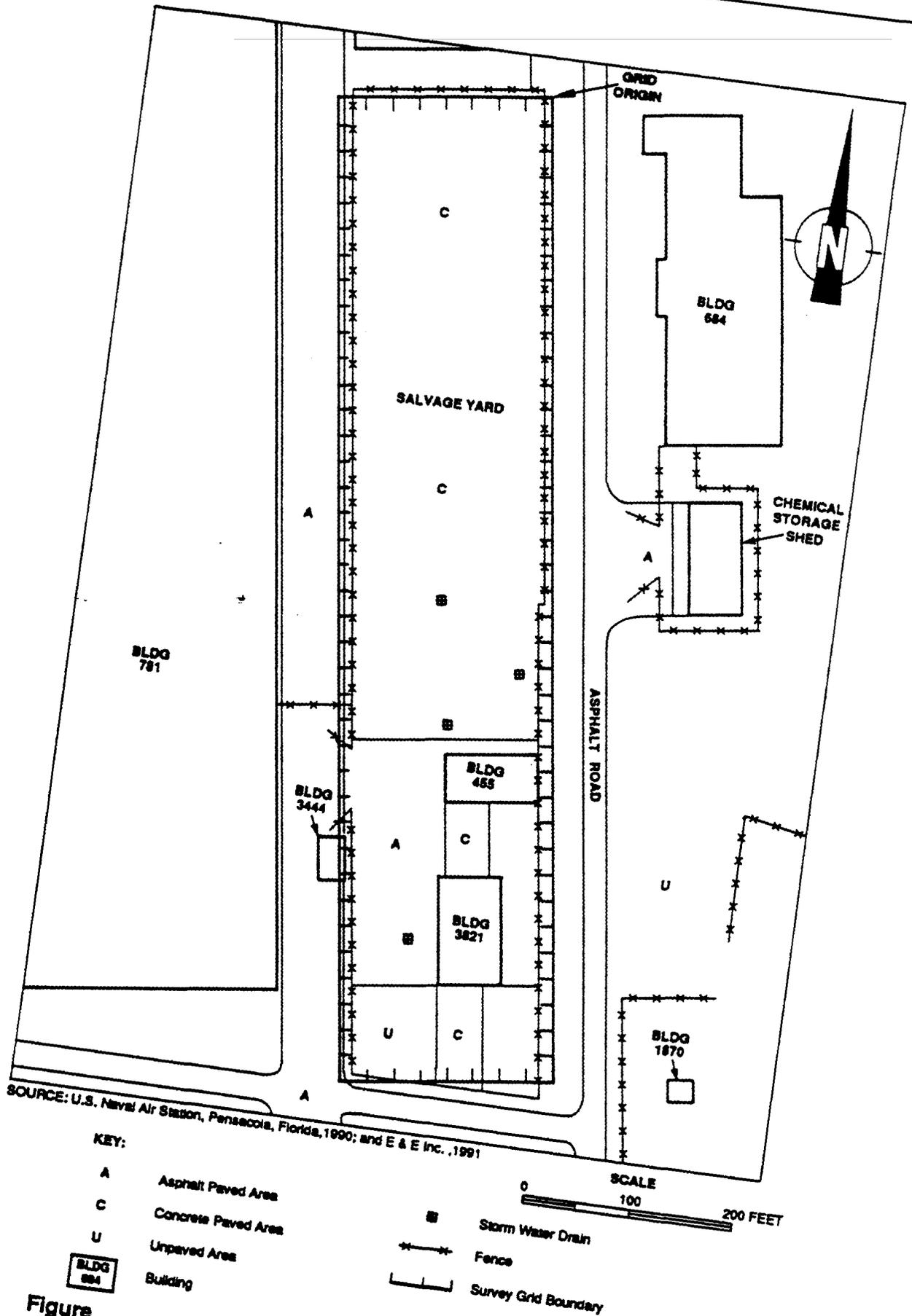
In the case of grid points located at even 100-foot increments from the origin, yy and zz = 00 (e.g., The southwest corner point of the grid on Site 12 is S9+25, W2+00, with respect to the grid origin). Figure 2-1 shows the location of the survey grid and origin point established on Site 12.

2.6 UTILITIES SURVEY

Prior to conducting any augering, boring, or drilling, E & E located all underground cables, pipes, utilities, and other subsurface features that could potentially be damaged, create a safety hazard, or otherwise hinder fieldwork. 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 & 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 with surveyor flags, fluorescent paint, or by other methods, as appropriate.

2.7 DATA ANALYSIS

Information obtained from the results of the above-described surface emissions, radiation, and geophysical surveys was given primary consideration in the development of placement strategies for the Phase I soil borings, temporary monitoring wells, and sediment samples. Prior to establishing the Phase I temporary monitoring well locations or other



Figure

2-1 SURVEY GRID MAP NAS PENSACOLA SITE 12

sampling points, the results of the aerial photograph analysis, site reconnaissance, surface emissions survey and air particulate sampling, geophysical survey, and utilities survey were evaluated to identify areas of potential surface or subsurface contamination. The proposed Phase I temporary monitoring well locations and other sampling points, shown on Figure 14-2 of the work plan, were then revised, as appropriate upon approval by Southern Division.

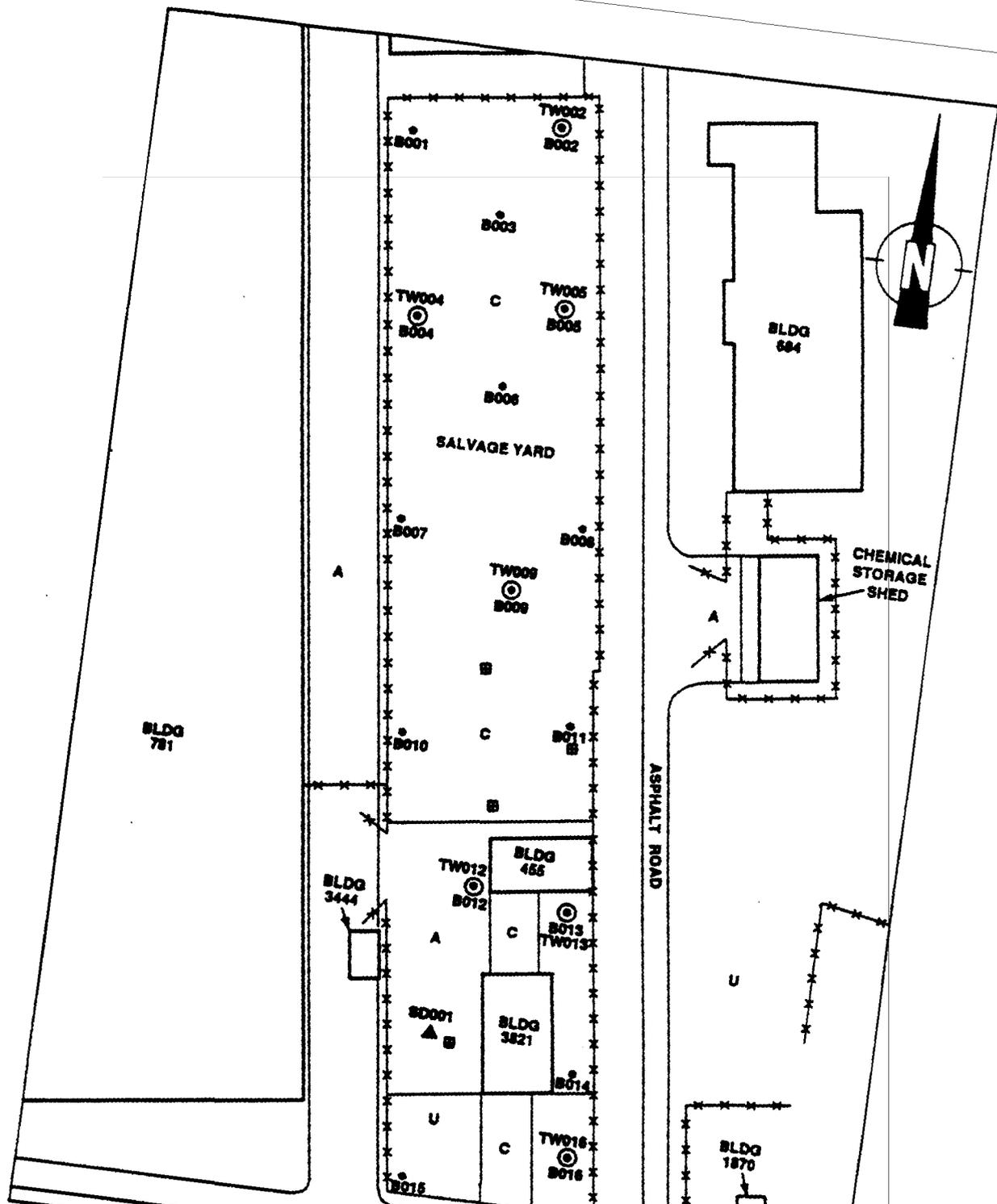
2.8 SEDIMENT SAMPLING

One sediment sample, plus one duplicate sample, was collected from the stormwater drain located west of Building 3821 (see Figure 2-2). The sediment sample was collected from the sediment surface to a depth of approximately 4 inches using a stainless-steel trowel. The composition of sediment material retrieved during sampling was recorded in the field logbook. The sediment sampling and equipment decontamination activities were conducted in accordance with sections 6.9.2 and 6.10 of the GQAPP. The sediment sample was shipped to E 6 E's Analytical Services Center (ASC) and analyzed for the screening parameters listed in Table 2-2.

2.9 SOIL BORINGS AND TEMPORARY MONITORING WELL INSTALLATION

Sixteen soil borings were completed at Site 12 (see Figure 2-2). At each boring location, samples were collected by compositing soils over 5-foot depth intervals from land surface to the water table. Each 5-foot depth interval was assigned a letter designation as follows: A interval = surface to 5 feet below land surface (BLS); B interval = 5 to 10 feet BLS; C interval = 10 to 15 feet BLS; and so on to the water table. Samples were collected using a solid-stem auger powered by a drill rig. Lithologic characteristics of the materials encountered in each borehole were recorded in the field logbook. All sampling, compositing, 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 seven of the 16 borings (see Figure 2-2). Each well was constructed with 5 feet of 0.01-inch slotted screen and the requisite amount of stainless



SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1990; and E & E Inc., 1991

KEY:

- A Asphalt Paved Area
- C Concrete Paved Area
- U Unpaved Area
- BLDG Building

- Storm Water Drain
- Fence
- Sediment Sample
- Sediment Sample Number



- Soil Boring
- Soil Boring Number
- Temporary Monitoring Well
- Temporary Monitoring Well Number

Figure 2-2

SEDIMENT SAMPLE, SOIL BORING, AND MONITORING WELL LOCATIONS
PENSACOLA SITE

Table 2-2
SAMPLING AND ANALYTICAL SUMMARY
NAS PENACOLA SITE 12

Medium	No. of Samples	Duplicates	Total	Analytical Suite ^{a, b}
Sediment	1	1	2	A
Soil	63	1	64	A
Groundwater ^c	7	1	8	A

[NASP]UR6027:T0228/319/10

Key:

^a**Analytical suit. designation:**

A = Volatile organic compounds (VOCs) including chlorobenzene, polynuclear aromatic hydrocarbons (PAHs), phenols, pesticides and total polychlorinated biphenyls (PCBs), total recoverable petroleum hydrocarbons (TRPHs), and metals (total, unfiltered).

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

^c**Groundwater samples and analyses shown are for temporary wells only.**

Source: Ecology and Environment, Inc., 1991.

steel riser, and installed to a depth that allowed the well screen to bracket the water table. The wells were installed using solid-stem augers powered by a drill rig. Lithologic characteristics of materials encountered during installation of the wells were recorded in the field logbook. All equipment decontamination activities were performed in accordance with Section 6.10 of the GQAPP.

2.10 SOIL SAMPLING

Sixty-three soil samples, plus one duplicate sample, were collected as described in Section 2.9 (see Figure 2-2). All soil samples were shipped to E & E's ASC and analyzed for the screening parameters listed in Table 2-2.

2.11 GROUNDWATER SAMPLING---TEMPORARY MONITORING WELLS

Seven groundwater samples, plus one duplicate sample, were collected from the seven temporary monitoring wells shown in Figure 2-2. 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 interface 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 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.

2.12 HYDROLOGIC ASSESSMENT

The hydrologic assessment of the site included a wellhead elevation survey and measurement of water level elevations in the temporary monitoring wells.

Wellhead 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. Following groundwater sampling and removal of the temporary monitoring wells, the elevations of the driven reference stakes were surveyed using a transit with reference to a previously established elevation at permanent monitoring well **GM15** located on Site 11 (North Chevalier Disposal Area).

In conjunction with the wellhead survey, the elevations of other nearby features (e.g., streams and ponds) were established. A staff gauge was placed in the creek (south of Bayou Grande near the northwest corner of Chevalier Field) located south of Site 12 and monitored over the course of the field investigation activities. A rain gauge station was established at the same location to monitor precipitation during fieldwork activities.

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

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

2.13.1 Field QA/QC Samples

Field QA/QC samples were prepared for all samples collected at the site during the Phase I investigation according to the procedures described in Section 6.12 of the GQAPP. Chain-of-custody was maintained for all samples collected, packaged, and shipped to E 6 E's ASC for analysis. Sample management was performed as specified in Section 7 of the GQAPP. The field QA/QC samples collected and the corresponding analytical parameters are listed in Table 2-2.

2.13.2 Decontamination Procedures

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

2.14 INVESTIGATION-DERIVED WASTE MANAGEMENT

Excess soil generated during soil boring and temporary monitoring well installation activities was temporarily contained in plastic, wrapped, and taped 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 in buckets adjacent to the well and then poured back into the well following collection of samples.

Potentially contaminated, personal, protective clothing and disposable materials, wastes generated during decontamination activities, and other potentially contaminated, investigation-derived materials were placed in 55-gallon drums, sealed, labeled "trash", and moved to a central area on the site. 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**

The review of aerial photographs dating from 1951 to 1989 indicated that neither activities nor surface features on and in the vicinity of Site 12 had varied greatly during this period.

Review of the January 22, 1951, aerial photograph indicated that Building 455 and associated "wings" were located in the south half of the site. It was apparent the site was not fenced or paved; however, it had been almost entirely cleared of vegetation. Numerous objects, such as storage trailers, containers, and bins, existed in various locations across the site. It was apparent that surface drainage flowed eastward (on-site surface slope is minimal) and perhaps also southwestward at the time of this photograph.

Review of the January 3, 1958, aerial photograph indicated that Building 781 had been constructed prior to the date of the photograph and was located west of the site area. In this photograph, surface drainage likely flows eastward. The area around Building 455 appeared to be paved with asphalt. Numerous objects (e.g., containers, storage sheds, bins) remained on site.

Review of aerial photographs from October 12, 1961, through April 28, 1976, indicated that little change had occurred on or in the vicinity of the site during this period. Areas of the site were paved with asphalt, and the site was fenced. Numerous objects (e.g., containers, storage sheds, bins) remained on site.

Review of the March 9, 1981, aerial photograph indicated that a concrete surface had been recently constructed on the north two-thirds of the site, and many open storage bins were situated on this concrete-paved area. The north wing of Building 455 was no longer present. The

older storage containers and bins had been relocated to the south one-third of the site.

Review of the September 22, 1983, aerial photograph indicated that the south wing of Building 455 was no longer present and Building 3821 had been recently constructed at the former location of the south wing. The open storage bins still occupied the north portion of the site.

The site area appears unchanged on the November 21, 1986, and October 26, 1989, photographs, and the site generally appears as it does today.

3.2 **SITE RECONNAISSANCE**

During the site reconnaissance, visual inspections were made across the site area (see Figure 1-2). The site is entirely fenced and relatively flat; however, surface drainage appears to flow gently eastward. The north two-thirds of the site are concrete paved. Numerous open scrap bins are oriented in four rows in a north-south direction on the concrete-paved area and contain scrap metal, paper, and other surplus items such as tires and batteries. Large components, such as machinery, electronic equipment, and aircraft parts, are also located on the concrete-paved area.

A compactor, which compacts metal equipment and vehicles into cubes and stacks them, is located in the central portion of the site.

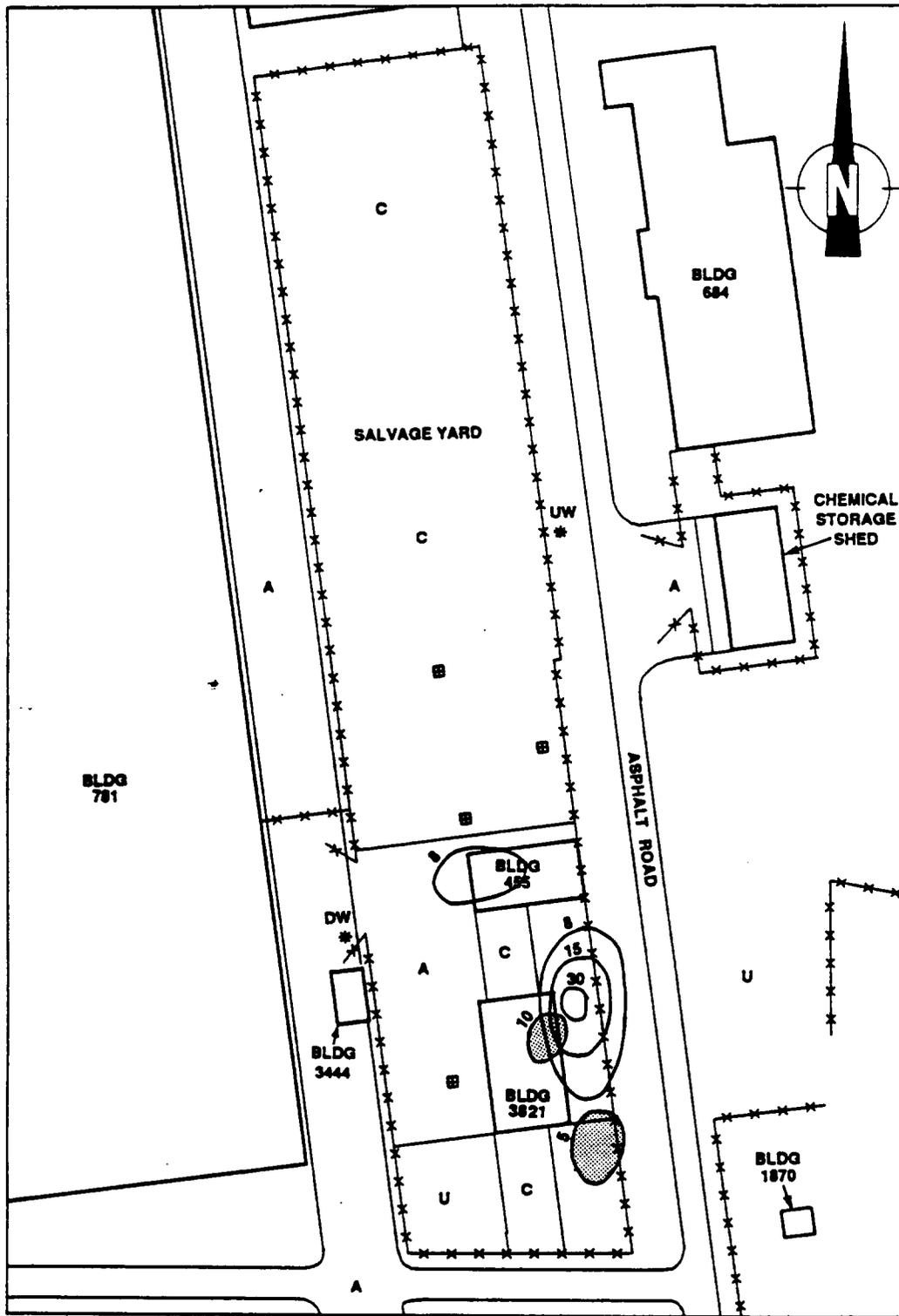
The south one-third of the site is mostly paved with asphalt. Drums labelled "hazardous waste" are lined up in storage racks on this portion of the site.

An HNu air monitoring device was used to monitor ambient air during the site reconnaissance. No readings above background were observed.

3.3 **SURFACE EMISSIONS SURVEY AND PARTICULATE AIR SAMPLING**

An OVA was used to monitor surface emissions across Site 12. Appendix B contains the OVA readings. Figure 3-1 shows areas where elevated surface emissions readings were obtained. Readings from 4 parts per million (ppm) to 7 ppm above background were noted around drums stored outside the southeast corner of Building 3821. Readings from 9 ppm to 10 ppm above background were noted near the inside

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SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1990; and E & E Inc., 1991

KEY:



Building



Stormwater Drain



Fence

A

Asphalt Paved

C

Concrete Paved

U

Unpaved

*

Particulate Air Sampling Location

DW/UW

Downwind/Upwind

SCALE

0 100 200 FEET



Area Having OVA Concentrations (ppm) Above Background (Background = 1 ppm)



Area Having Radiation Readings (uR/h) Above Background (Background = 3 to 5 uR/h)

**Figure 3-1 SURFACE EMISSIONS AND RADIATION SURVEY MAP
NAS PENSACOLA SITE 12**

northeast corner of Building 3821 (see Figure 3-1). These elevated readings are most likely attributable to leaks of materials from containers stored in these areas.

On November 13, 1990, particulate air monitoring was conducted. During the test, the wind was from the northeast at approximately 3 to 5 miles per hour (mph). The Mini-Ram particulate monitor was placed downwind near the northeast corner of Building 3444 [(see Figure 3-1)]. After 15 minutes, the time weighted average (TWA) of particulates was 0.11 milligrams per cubic meter (mg/m^3). The Mini-Ram was then placed directly upwind and approximately 300 feet northeast of the downwind location [(see Figure 3-1)]. After 15 minutes, the TWA was recorded as $0.13 \text{ mg}/\text{m}^3$. Based on these results, the site does not appear to be a source of particulates in the air.

3.4 RADIATION SURVEY

The radiation survey was conducted across Site 12 [as described in Section 2.4.] Appendix B presents the results of the radiation survey. Background radiation levels for [gamma radiation at] NAS Pensacola are 2 to 3 microRoentgens per hour ($\mu\text{R}/\text{h}$). [Radiation levels on the site ranged from background to 35 $\mu\text{R}/\text{h}$.] Figure 3-1 shows that elevated readings of 8 $\mu\text{R}/\text{h}$ were observed inside Building 455 on the west side. This low level reading, possibly associated with natural radioactivity in building materials, is not significant. However, there is a possibility that the readings inside Building 455 may be associated with elevated readings obtained around Building 3821 (discussed in the following paragraph).

Elevated readings (from 8 to 15 $\mu\text{R}/\text{h}$) were observed in an area east and northeast of Building 3821, and readings as high as 30 to 35 $\mu\text{R}/\text{h}$ were observed near the northeast corner of Building 3821 (see Figure 3-1). This area may be of some concern because of its site and the radiation levels encountered. A boring location in the vicinity of Building 3821, was abandoned on January 9, 1991, after radiation levels of 300 $\mu\text{R}/\text{h}$ were recorded a few feet below land surface during drilling. This borehole was filled in and a new location (boring B013; see Figure 2-2) was drilled 75 feet north, near Building 455. It is not known if any radioactive material was leaked in this area.

3.5 GEOPHYSICAL SURVEY

A formal geophysical survey was not conducted at Site 12 due to the extensive, reinforced-concrete pavement covering the site. However, a metal detector survey was conducted. Metal was detected over a large area of the site (see Figure 3-2). These readings also are attributable to the reinforced-concrete pavement and large quantity of surface metal associated with on-site operations, including compacting equipment and storing items such as vehicular and scrap metal.

3.6 HYDROLOGIC ASSESSMENT

3.6.1 Shallow Subsurface Lithology

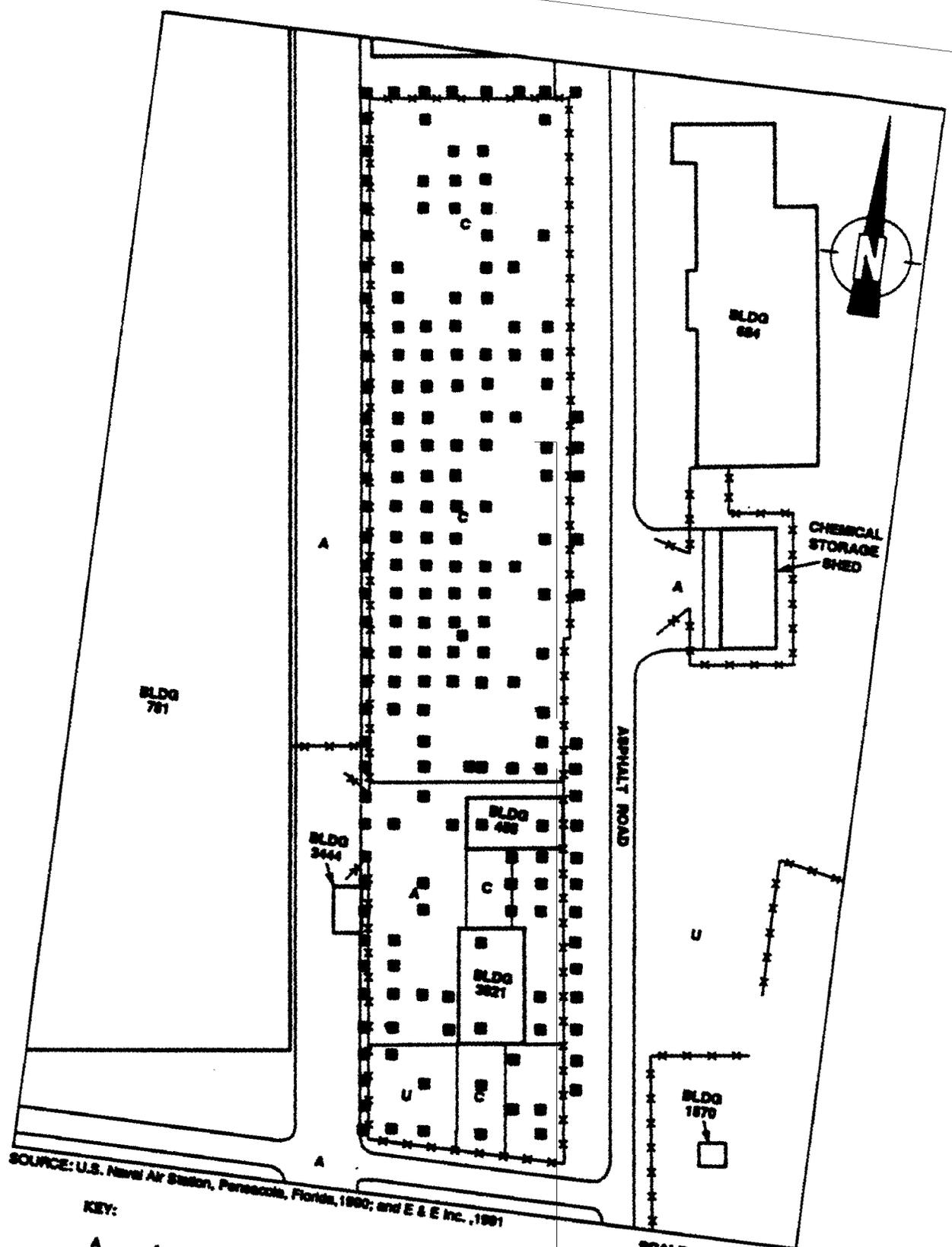
Appendix [D] presents the lithologic logs for the 16 soil borings completed at Site 12. Based on the information collected during the completion of soil borings, the shallow, subsurface lithology of Site 12 can be generally characterized as a brown, fine- to medium-grained quartz sand with some pebbles. Toward the south portion of the site, the shallow, subsurface lithology becomes a red clayey, silty quartz sand. The lithology generally becomes a lighter, red- , yellow- , or gray-brown, silty, fine- to medium-grained quartz sand. At boring B005, gray-brown moist sandy silty clay was observed in the interval between 5 to 9 feet BLS. From approximately 10 feet BLS to the water table, the lithology generally becomes a light tan to white, medium- to coarse-grained quartz sand. In this same depth interval at boring B003, the lithology becomes a medium-brown, fine- to medium-grained quartz sand just above the water table.

[OVA readings taken in the open boreholes during drilling ranged from 0 to 13 ppm. OVA open-borehole readings for the site are presented in Appendix D.]

3.6.2 Water Levels and Groundwater Flow

Table 3-1 presents the water level elevations measured in the temporary monitoring wells at Site 12. Based on the measurements obtained from the temporary monitoring wells, the depth to the water table across the site ranges from 14.48 to 15.94 feet BLS.

Figure 3-3 illustrates the water level elevations and the groundwater flow direction in the upper portion of the surficial zone of the



SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1990; and E & E Inc., 1991

- KEY:
- A Asphalt Paved Area
 - C Concrete Paved Area
 - U Unpaved Area
 - BLDG Building
 - Storm Water Drain
 - Fence
 - Positive Metal Detector Reading

Figure METAL DETECTOR SURVEY MAP — NAS PENSACOLA SITE

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Table 3-1

TEMPORARY MONITORING WELL CONSTRUCTION INFORMATION
AND WATER LEVEL ELEVATIONS
NAS PENSACOLA SITE 12

Well Number	Total Depth (BLS)	Depth to Water (BLS)	Depth to Water BTOC	TOC Elevation	Water Level Elevation	Date Measured
TW002	19.02	15.67	16.65	19.53	2.88	1-11-91
TW004	18.70	15.60	16.90	19.82	2.92	1-11-91
TW005	18.92	15.94	17.02	19.86	2.84	1-11-91
TW009	18.71	15.16	16.45	19.49	3.04	1-11-91
TU012	18.83	14.73	15.90	19.10	3.20	1-11-91
TU013	18.83	14.78	15.95	19.03	3.08	1-11-91
TW016	18.58	14.48	15.90	19.00	3.10	1-11-91

14[NASP]UH6027:T0228/320/22

Notes :

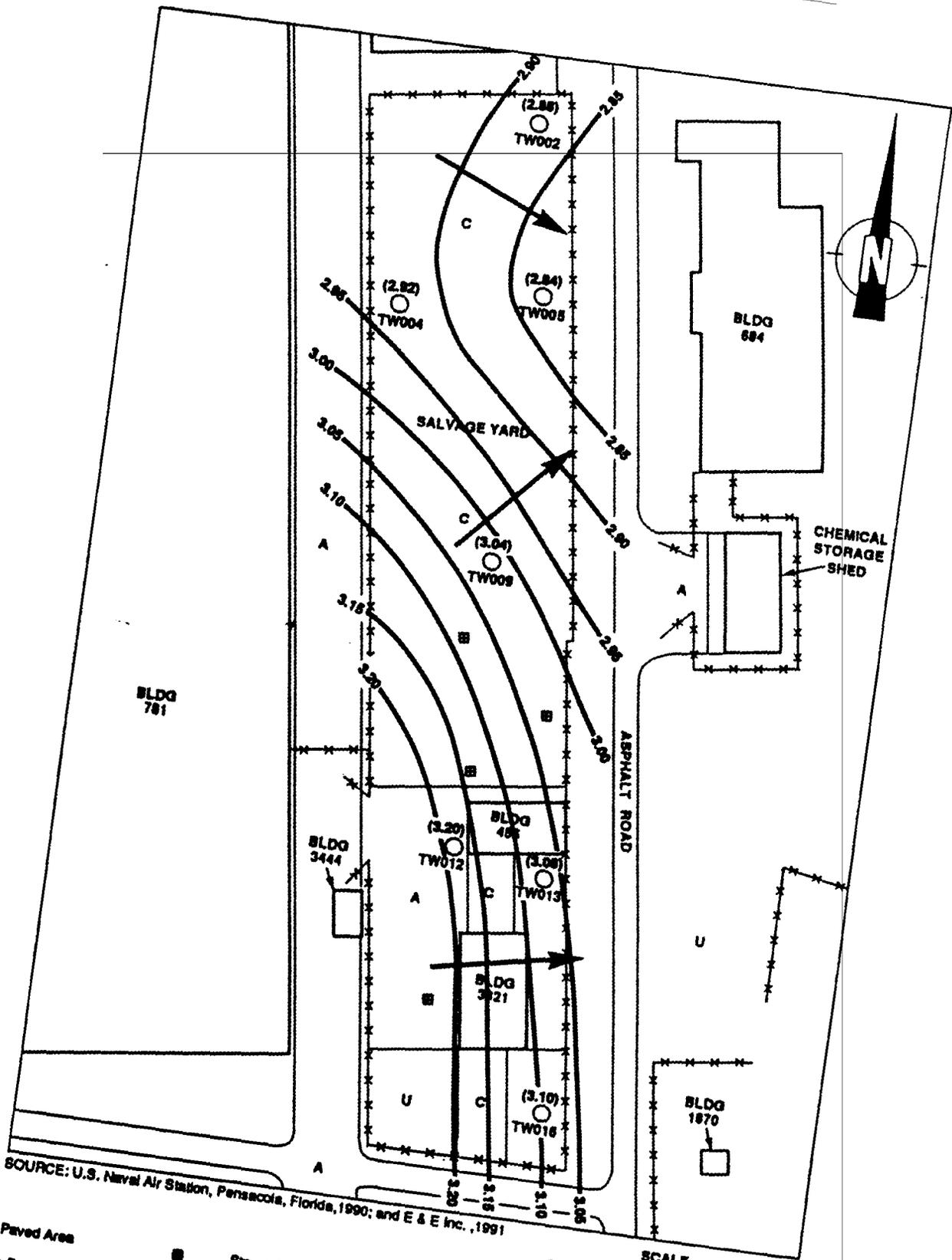
All dophtr are in foot.
All elevations are in foot referenced to roan sea level (MSL).
All wells were constructed of 2-inch diameter stainless stool with 5 foot of 0.01-inch screen.

Key :

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

Source: Ecology and Environront, Inc., 1991.

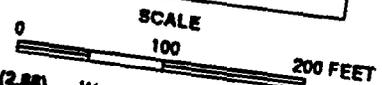
[Bold items enclosed io brackets denote changes to the last version of document]



SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1990; and E & E Inc., 1991

KEY:

- A Asphalt Paved Area
- Concrete Paved Area
- Unpaved Area
- BLDG Building
- U
- Storm Water Drain
- Fence
- Temporary Monitoring Well
- TW002 Temporary Monitoring Well Number



- (2.85) Water Level Elevations (feet above MSL)
- 3.0 Water Level Elevation isopleth (feet above MSL)
- Groundwater Flow Direction

Figure 3-3 SURFICIAL

ZONE WATER LEVEL ELEVATIONS
NAS PENSACOLA SITE 12

0000386

Sand-and-Gravel Aquifer at Site 12. Based on groundwater elevations, the direction of shallow groundwater flow is to the east and northeast, and the horizontal hydraulic gradient is approximately 0.0013.

3.7 CHEMICAL ANALYSES

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

3.7.1 Sediment

Table 3-2 summarizes the analytical screening results for the sediment samples SD001 and SD001D collected at Site 12. Figure 2-2 shows the location of the sediment samples collected at the site. The complete analytical screening results for the sediment samples are presented in Appendix D. The sediment samples collected at Site 12 exhibited elevated levels of metals, total recoverable petroleum hydrocarbons (TRPHs), volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs).

Metals

Copper, zinc, lead, and chromium were detected at elevated concentrations (190 mg/kg, 120 mg/kg, 63 mg/kg, and 40 mg/kg, respectively) in the sediment sample SD001. Nickel and cadmium were also detected at lower concentrations of 14 mg/kg and 5.2 mg/kg, respectively.

TRPHs

The TRPH concentration was 170 mg/kg in sediment sample SD001 and 220 mg/kg in the duplicate sample.

VOCs

Methylene chloride was detected in SD001 at a concentration of 4,700 µg/kg. However, this common laboratory solvent was also detected at a similar level in the laboratory method blank (see Section 3.10.2);

Table 3-2

SUMMARY ANALYTICAL SCREENING RESULTS FOR SEDIMENT SAMPLES
 HAS PENSACOLA SITE 12
 (All results in µg/kg, unless noted)

Parameter	(Detection Limit	Sample Number (Location)	
		P12SD001 (SD001)	P12SD001D ^a (SD001)
Chromium (mg/kg)	1	40	180
Zinc (mg/kg)	2	120	390
Lead (mg/kg)	4	63	110
Cadmium (mg/kg)	0.5	5.2	7.9
Nickel (mg/kg)	4	14	220
Copper (mg/kg)	2.5	190	340
TRPHs (mg/kg)	5	170	120
Methylene Chloride	1,000	4,700 (B)	3,100 (B)
Total PAHs as Benzo-a-pyrene	1,000	14,000	19,000
Total PCBs	5,000]	120,000	81,000

14[RASP]UH6027:T0228/272/25

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

Key:

^a Duplicate of sample P12SD001.

Qualifier:

(B) = Compound also present in method blank.

Source: Ecology and Environment, Inc., 1991.

therefore, its presence in the sediment sample is attributable to laboratory-derived contamination.

PAHs

A PAH concentration of 14,000 µg/kg was detected in SD001. It should be noted that PAHs were reported as benzo-a-pyrene for laboratory reporting purposes; however, PAHs other than benzo-a-pyrene may be present in the samples.

PCBs

An extremely high total PCB concentration of 120,000 µg/kg was detected in SD001. The total PCB concentration constitutes the greatest fraction of the organic contaminant load.

3.7.2 Soil

Table 3-3 summarizes the analytical screening results for soil samples collected at Site 12, and Figure 2-2 shows the soil boring locations. The complete analytical screening results for soil samples are presented in Appendix E. In general, one or more of the soil samples collected at Site 12 exhibited elevated levels of metals, TRPHs, VOCs, PAHs, phenols, and/or PCBs. Pesticides were not detected in any of the soil samples.

Metals

In general, the greatest number and highest concentrations of specific metals and the highest concentrations were detected in the A-interval samples. However, total metals concentrations, elevated with respect to other on-site total metals concentrations, were detected in the B- and C-interval samples from B010; these samples exhibited the second and third highest total metals concentrations, respectively, of the Site 12 soil samples. Figure 3-4 shows the total metals concentrations in the A-interval soil sample collected from each boring at the site. The highest total metals concentrations were detected in the A-interval samples from borings B013, B001, B008, and B010 (presented in order of decreasing concentrations).

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Table 3-3

**SUMMARY ANALYTICAL SCREENING RESULTS FOR SOIL SAMPLES
WAS PENNACOLA SITE 12
(All results in µg/kg, unless noted)**

Parameter	(Detection Limit	Sample Number (Location and Depth Interval)							
		P12S001A (B001A)	P12S001B (B001B)	P12S001C (B001C)	P12S001D (B001D)	P12S002A (B002A)	P12S002B (B002B)	P12S002C (B002C)	P12S002D (B002D)
Arsenic (mg/kg)	6.9	--	--	--	--	--	--	--	--
Chromium (mg/kg)	1	7.3	1.4	2.7	--	2.1	2.4	--	--
Zinc (mg/kg)	2	24	6.0	3.0	2.9	18	2.0	3.3	--
Lead (mg/kg)	4	11	--	--	--	16	--	--	--
Cadmium (mg/kg)	0.5	2.3	--	--	--	--	--	--	--
Nickel (mg/kg)	4	7.3	--	--	--	--	--	--	--
Copper (mg/kg)	2.5	29	8.3	13	--	3.2	--	--	--
Silver (mg/kg)	1	--	--	--	--	--	--	--	--
TRPHs (mg/kg)	5	56	13	51	10	20	9.6	5.9	9.7
Methylene Chloride	1,000	1,300	--	--	--	--	--	--	--
Total PAHs as Benzo-a-pyran.	1,000	--	--	--	--	8,900	(L)	It)	--
Phenols as Trichlorophenol	2,000	--	--	--	--	25,000	--	--	--
total PCBs	5,000	--	--	--	--	--	--	--	--

Key at end of table.

14 (WASP) UH6027: T0228/270/5

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

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Table 3-3 (Cont.)

Parameter	[Detection Limit	Sample Number (Location and Depth Interval)								
		P12S003A (B003A)	P12S003B (B003B)	P12S003C (B003C)	P12S003CD ^A (B003C)	P12S003D (B003D)	P12S004A (B004A)	P12S004B (B004B)	P12S004C (B004C)	P12S004D (B004D)
Arsonic (mg/kg)	6.9	--	--	--	--	--	--	--	--	--
Chromium (mg/kg)	1	3.7	1.6	--	--	2.4	--	1.7	1.1	23
Zinc (mg/kg)	2	7.0	4.3	2.0	--	5.5	--	--	--	2.1
Lead (mg/kg)	4	20	--	--	--	--	--	--	--	--
Cadmium (mg/kg)	0.5	--	--	--	--	--	--	--	--	--
Nickel (mg/kg)	4	--	--	--	--	--	--	--	--	9.4
Copper (mg/kg)	2.5	--	--	--	--	--	--	--	--	2.6
Silver (mg/kg)	1	--	--	--	--	--	--	--	--	--
TRPHs (mg/kg)	5	22	19	13	17	14	9.5	9.7	17	8.6
Methylene Chloride	1,000	--	--	--	--	--	--	--	--	--
Total PAHs as Benzo-a-pyrene	1,000	--	--	--	--	--	--	--	--	--
Phenols as Trichlorophenol	2,000	--	--	--	--	--	--	--	--	--
Total PCBs	5,000	--	--	--	--	--	--	--	--	--

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Table 3-3 (Cont.)

Parameter	[Detection Limit	Sample Number (Location and Depth Interval)							
		P12S005A (B005A)	P12S005B (B005B)	P12S005C (B005C)	P12S005D (B005D)	P12S006A (B006A)	P12S006B (B006B)	P12S006C (B006C)	P12S006D (B006D)
Arsenic (mg/kg)	6.9	--	--	--	--	--	--	--	--
Chromium (mg/kg)	1	--	7.9	--	--	1.5	--	--	--
Zinc (mg/kg)	2	--	--	--	--	44	--	--	--
Lead (mg/kg)	4	--	--	--	--	--	--	--	--
Cadmium (mg/kg)	0.5	--	--	--	--	2.2	--	--	--
Nickel (mg/kg)	4	--	--	--	--	--	--	--	--
Copper (mg/kg)	2.5	--	--	--	--	--	--	--	--
Silver (mg/kg)	1	--	--	--	--	--	--	--	--
TRPNs (mg/kg)	5	7.3	19	23	22	38	6.4	1.9	--
Methylene Chloride	1,000	--	--	--	--	--	2,800 (B)	--	4,000 (B)
Total PANs as Benzo-a-pyrene	1,000	--	--	--	--	--	--	--	--
Phenols as Trichlorophenol	2,000	--	--	--	--	--	--	--	--
Total PCBs	5,000	--	--	--	--	--	--	--	--

Key at end of table.

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Table 3-3 (Cont.)

Parameter	[Detection Limit	Sample Number (Location and Depth Interval)							
		P12S007A (B007A)	P12S007B (B007B)	P12S007C (B007C)	P12S007D (B007D)	P12S008A (B008A)	P12S008B (B008B)	P12S008C (B008C)	P12S008D (B008D)
Arsenic (mg/kg)	6.9	--	--	--	--	11	39	7.0	--
Chromium (mg/kg)	1	1.1	--	--	--	4.5	2.2	--	--
Zinc (mg/kg)	2	3.5	--	--	--	18	5.0	--	--
Lead (mg/kg)	<i>I</i>	--	--	--	--	16	8.1	6.8	--
Cadmium (mg/kg)	0.5	0.58	--	--	--	3.3	--	--	--
Nickel (mg/kg)	<i>I</i>	--	--	--	--	--	--	--	--
Copper (mg/kg)	2.5	39	--	--	--	9.7	--	--	--
Silver (mg/kg)	1	--	--	--	--	--	--	--	--
TRPHs (mg/kg)	5	8.4	--	--	--	--	7.8	--	--
Methylene Chloride	1,000	--	--	--	--	--	--	--	--
Total PAHs as Benzo-a-pyrene	1,000	--	--	--	--	1,200	--	--	--
Phenols as Trichlorophenol	2,000	--	--	--	--	--	--	--	--
Total PCBs	5,000	(L)	--	--	--	(L)	--	--	--

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Table 3-3 (Cont.)

Parameter	(Detection Limit	Sample Number (Location and Depth Interval)							
		P12S009A (B009A)	P12S009B (B009B)	P12S009C (B009C)	P12S009D (B009D)	P12S010A (B010A)	P12S010B (B010B)	P12S010C (B010C)	P12S010D (B010D)
Arsenic (mg/kg)	6.9	--	--	--	--	--	--	--	--
Chromium (mg/kg)	1	2.1	--	--	--	2.6	5.1	2.9	--
Zinc (mg/kg)	2	5.4	--	2.2	--	24	21	23	3.0
Lead (mg/kg)	4	--	--	--	--	6.8	18	20	7.4
Cadmium (mg/kg)	0.5	--	--	--	--	6.9	4.1	8.4	--
Nickel (mg/kg)	4	--	--	--	--	--	--	--	--
Copper (mg/kg)	2.5	--	--	--	--	14	65	54	3.4
Silver (mg/kg)	1	--	--	--	--	--	--	--	--
TRPHs (mg/kg)	5	24	18	8.9	19	110	65	56	--
Methylene Chloride	1,000	--	--	--	--	1,100 B)	--	--	1,400(B)
Total PAHs as Benzo-a-pyrene	1,000	--	--	--	--	--	--	--	--
Phenols as Trichlorophenol	2,000	--	--	--	--	--	--	--	--
Total PCBs	5,000	--	--	--	--	--	(L)	--	--

Key at end of table.

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(Bold items enclosed in brackets denote
changes to the last version of document)

Table 3-3 (Cont.)

Parameter	[Detection Limit	Sample Number (Location and Depth Interval)							
		P12S011A (B011A)	P12S011B (B011B)	P12S011C (B011C)	P12S011D (B011D)	P12S012A (B012A)	P12S012B (B012B)	P12S012C (B012C)	P12S012D (B012D)
Arsenic (mg/kg)	6.9	--	--	--	--	--	--	--	--
Chromium (mg/kg)	1	1.6	--	--	--	--	--	--	--
Zinc (mg/kg)	2	21	2.6	3.4	--	--	--	--	--
Lead (mg/kg)	4	5.4	--	--	--	--	--	--	--
Cadmium (mg/kg)	0.5	0.6	--	--	--	--	--	--	--
Nickel (mg/kg)	4	--	--	--	--	--	--	--	--
Copper (mg/kg)	2.5	2.8	--	--	--	--	--	--	--
Silver (mg/kg)	1	--	--	--	--	--	--	--	--
TRPHs (mg/kg)	5	--	--	--	--	22	12	6.3	13
Methylene Chloride	1,000	--	--	--	--	--	--	--	--
Total PAHs as Benzo-a-pyrene	1,000	--	--	--	--	(L)	(L)	(L)	--
Phenols as Trichlorophenol	2,000	--	--	--	--	--	--	--	--
Total PCBs	5,000]	--	--	--	--	--	--	--	--

Key at end of table.

14[NASP|UH6027:T0228/270/5

(Bold items enclosed in brackets denote changes to the last version of document)

3-17

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Table 3-3 (Cont.)

Parameter	[Detection Limit	Number (Location and Depth Interval)						
		P12S013A (B013A)	P12S013B (B013B)	P12S013C (B013C)	P12S013D (B013D)	P12S014A (B014A)	P12S014B (B014B)	P12S014C (B014C)
Arsenic (mg/kg)	6.9	--	--	--	--	--	--	--
Chromium (mg/kg)	1	6.3	--	1.3	--	1.7	--	--
Zinc (mg/kg)	2	39	--	--	--	4.6	3.5	2.4
Lead (mg/kg)	4	24	--	5.4	--	--	--	8.1
Cadmium (mg/kg)	0.5	12	--	--	--	0.68	--	--
Nickel (mg/kg)	4	--	--	--	--	--	--	--
Copper (mg/kg)	2.5	35	--	--	--	--	--	--
Silver (mg/kg)	1	--	--	--	--	--	--	--
TRPHs(mg/kg)	5	11	19	11	--	12	5.2	5.0
Methylene Chloride	1,000	--	--	--	--	--	--	--
Total PAHs as Benzo-a-pyrene	1,000	1,300	--	--	--	--	--	--
Phenols am Trichlorophenol	2,000	--	--	--	--	--	--	--
Total PCBs	5,000	--	--	--	--	--	--	--

Key at end of table.

14[NAAP]UH6027:T0228/270/5

3-18

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

Table 3-3 (Cont.)

Parameter	[Detection Limit	Sample Number (Location and Depth Interval)							
		P12S015A (B015A)	P12S015B (B015B)	P12S015C (B015C)	P12S015D (B015D)	P12S016A (B016A)	P12S016B (B016B)	P12S016C (B016C)	P12S016D (B016D)
Arsenic (mg/kg)	6.9	--	--	--	--	--	--	--	--
Chromium (mg/kg)	1	2.7	2.0	--	--	5.3	--	--	--
Zinc (mg/kg)	2	7.9	2.6	--	--	21	--	--	--
Lead (mg/kg)	4	--	--	--	--	--	--	--	--
Cadmium (mg/kg)	0.5	1.4	--	--	--	--	--	--	--
Nickel (mg/kg)	4	--	--	--	--	--	--	--	--
Copper (mg/kg)	2.5	--	--	--	--	--	--	--	--
Silver (mg/kg)	1	--	--	--	--	--	--	--	--
TRPHs (mg/kg)	5	89	24	20	14	8.2	--	--	--
Ethylene Chloride	1,000	--	--	--	--	--	--	--	--
Total PAHs as Benzo-a-pyrene	1,000	3,400	--	--	--	(L)	--	--	--
Phenols as Trichlorophanol	2,000	2,600	--	--	--	2,200	6,800	(L)	25,000
Total PCBs	5,000]	--	--	--	--	--	--	--	--

14(NASP)UH6027:T0228/270/5

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

Key:

1 Duplicate of sample P12S003C.

Dash (--) indicates compound not detected.

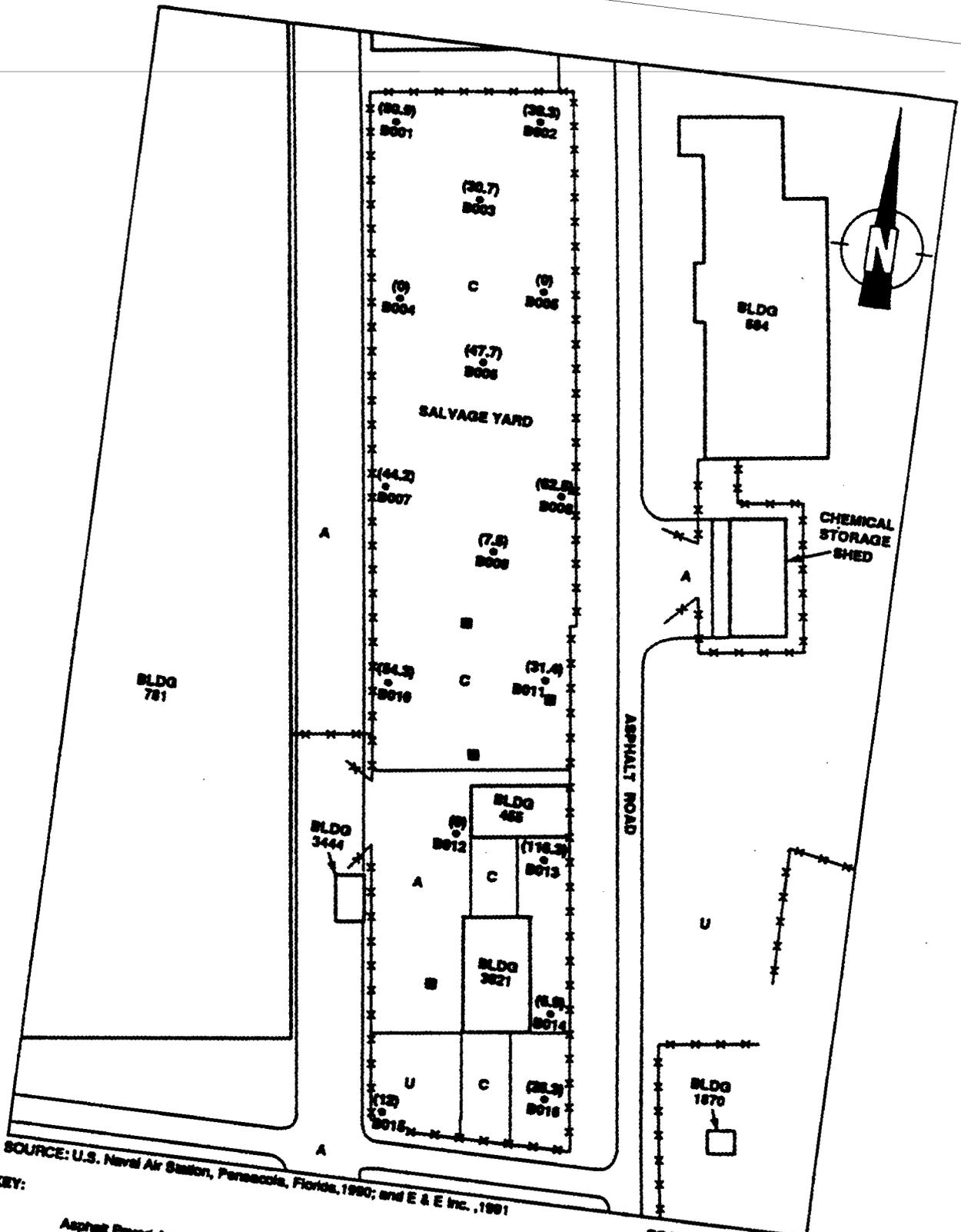
Qualifiers:

(B) = Compound also present in method blank.

(L) = Present below stated detection limit.

Sourca: Ecology and Environmant, Inc., 1991.

(sold items enclosed in brackets denote
changes to tba last version of document)

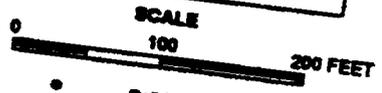


SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1980; and E & E Inc., 1991

KEY:

- Asphalt Paved Area
- C Concrete Paved Area
- A Unpaved Area
- U

- BLDG 884 Building
- Storm Water Drain
- Fence



- Soil Boring
- B002 Soil Boring Number
- (44.2) Total Metals Concentration (mg/kg)

Figure 3-4 TOTAL METALS CONCENTRATIONS IN A-INTERVAL SOIL SAMPLES
NAS PENSACOLA SITE 12

0000397

Arsenic was detected at only one boring location--in the A-interval, B-interval, and C-interval samples from boring B008 at 11 mg/kg, 39 mg/kg, and 7.0 mg/kg, respectively. The total (sum of all intervals) arsenic concentration constitutes nearly one-half the total metals concentration from boring B008. The detection of arsenic at only one boring location suggests a local source.

Zinc and chromium were detected in 27 and 32 of the soil samples, respectively; thus, occurrences of these two metals are the most widespread of the metals analyzed at Site 12. The highest zinc concentrations (44 mg/kg and 39 mg/kg) were detected in the A-interval samples from borings B006 and B013, respectively. The highest chromium concentrations (7.3 mg/kg and 6.3 mg/kg) were detected in the A-interval samples from borings B001 and B013, respectively.

Lead was detected in one or more soil samples from each depth interval at concentrations ranging from 5.4 to 24 mg/kg. Lead was detected in 13 Site 12 soil samples (from borings B001, B002, B003, B008, B010, B011, B013, and B014). Lead concentrations exist in the deeper B and C intervals in B008 and in the B, C, and D intervals in B010; the lead concentrations in boring B010 increase with depth to the D interval (see Table 3-3). However, the highest lead concentration was detected in the A-interval sample S013A.

Cadmium was detected in nine of 16 A-interval samples, and in the B- and C-interval samples from B010. Although cadmium was detected in a majority of the A-interval samples, the total (sum of all intervals) cadmium concentration from boring B010 exceeds the total of all the cadmium detections in soil samples, excluding only the highest on-site detection (12 mg/kg) in the A-interval sample from boring B013.

Nickel was only detected in the A-interval sample from boring B001 at 7.3 mg/kg and in the D-interval sample from boring B004 at 9.4 mg/kg.

Copper was detected in one or more soil samples from each depth interval; copper is the third most widespread of the metals analyzed at Site 12. Concentrations of copper, elevated with respect to other on-site metals concentrations, were detected in the A-interval samples from borings B007 (39 mg/kg) and B013 (35 mg/kg). However, the highest concentrations of copper (65 mg/kg and 54 mg/kg) were detected in the B- and C-interval samples, respectively, from boring B010. Total copper

Concentrations (sum of all intervals) are highest from boring B010, as is the case for lead and cadmium.

TRPHs

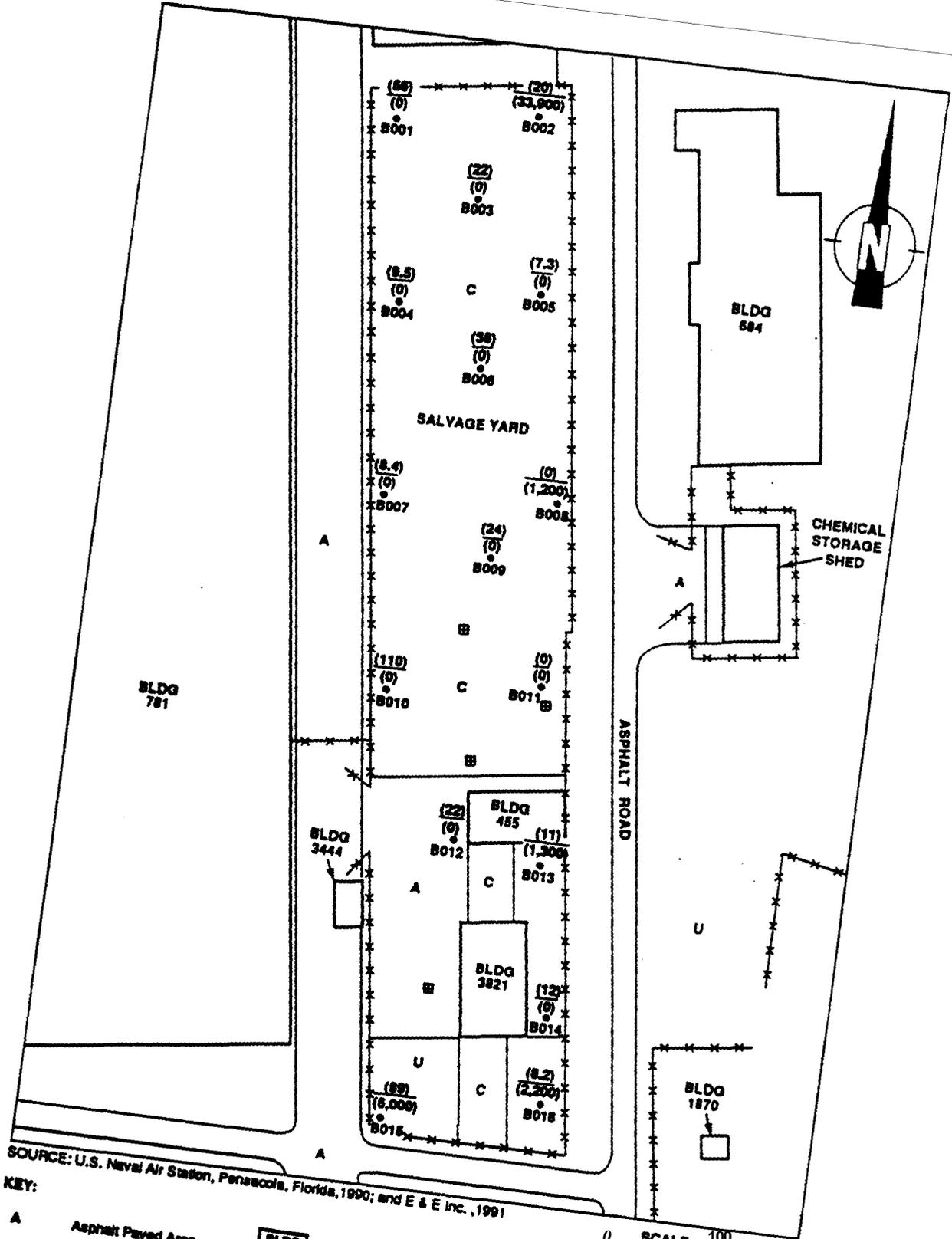
TRPHs were present in all but 16 of the 63 soil samples collected at Site 12, and the highest concentrations were generally detected in the A-interval samples (see Table 3-3 and Figure 3-5). The highest concentration (110 mg/kg) of TRPHs was in the A-interval sample from boring B010. TRPE concentrations, elevated with respect to other on-site TRPH concentrations, were also detected in borings B015 (89 mg/kg) and B001 (56 mg/kg) in the west portion of the site. In addition, the boring B010 B-interval sample contained the highest TRPE concentration (65 mg/kg) of all B-interval samples, and the boring B010 C-interval sample contained the highest TRPH concentration (56 mg/kg) of all the C-interval samples. The highest TRPE concentration in the D-interval samples was 22 mg/kg in the sample from boring B005 in the northeast portion of the site. Total (sum of all intervals) TRPE concentrations are highest in borings B010 (231 mg/kg), B015 (147 mg/kg), and B001 (130 mg/kg). These discrete, localized occurrences of TRPHs indicate potential organic contaminant sources in the immediate vicinities of each of the borings.

VOCs

Methylene chloride was detected in five of the soil samples at concentrations ranging from 1,100 µg/kg to as high as 4,000 µg/kg. However, this common laboratory solvent was also detected at similar levels in one of the three laboratory method blanks (see Section 3.[9].2). Although an on-site source cannot be entirely discounted, the presence of methylene chloride in the soil samples is probably attributable to laboratory-derived contamination.

PAHs and Phenols

Elevated PAH concentrations, with respect to other on-site PAH concentrations, were detected in only four A-interval samples (from borings B002, B008, B013, and B015); elevated phenol concentrations were



SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1990; and E & E Inc., 1991

KEY:

- A Asphalt Paved Area
- C Concrete Paved Area
- U Unpaved Area

-  Building
-  Storm Water Drain
-  Fence

-  SCALE 100 200 FEET
-  Soil Boring
-  Soil Boring Number

TRPH Concentration (mg/kg)
PAH and Phenol Concentration (ppb)

3-5 Figure PAH, TRPH, AND PHENOL CONCENTRATIONS IN A REPRESENTATIVE SOIL SAMPLES NAS PENSACOLA SITE

detected in only three A-interval samples (from borings B002, B015, and B016) and in the B- and D-interval samples from boring B016.

Figure 3-5 presents the combined PAE and phenol concentrations detected in the A-interval soil samples from each boring across Site 12. Elevated concentrations of both PAEs and phenols were detected in borings B002 and B015 (see Table 3-3), located in the northeast and south portions of the site, respectively. However, elevated concentrations of only PAHs were detected in borings B008 (in the east-central portion of the site) and B013 (in the southeast-central portion of the site), and elevated concentrations of only phenols were detected in boring B016 (in the southeast corner of the site). The highest on-site concentration of phenols (25,000 µg/kg) was detected in both the A-interval sample from boring B002 and in the D-interval sample from boring B016. Phenols were present in all the sampling intervals from boring B016, and, except in the C interval, phenol concentrations increased with depth.

It should be noted that PAHs were reported as benzo-a-pyrene for laboratory reporting purposes; however, PAHs other than benzo-a-pyrene may be present in the samples. Similarly, phenols were reported as trichlorophenol for laboratory reporting purposes; however, phenols other than trichlorophenol may be present in the samples.

PCBs

PCBs were detected only at concentrations below the detection limit of 10 µg/kg in the A-interval samples from borings B007 and B008 and in the B-interval sample from boring B010.

3.7.3 Groundwater

Field Parameters

Table 3-4 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). [pH values ranged from 6.2 to 6.82.] No floating or [sinking] immiscible hydrocarbons were observed in any of

Table 3-4

**GROUNDWATER FIELD PARAMETERS
NAS PENSACOLA SITE 12**

Well Number	Temperature (°C)	pH (units)	Specific Conductance (umhos/cm)	Date Measured
Two02	23.4	6.8	197	1-11-91
Two04	22.8	6.35	123	1-11-91
TW005	24.2	6.82	215	1-11-91
TW009	--	6.2	270	1-11-91
Two12	--	6.2	250	1-11-91
Two13	--	6.4	280	1-11-91
TW016	21.8	6.2	280	1-11-91

14[NASP]UH6027:T0228/244/26

Key:

Dash (--) indicator parameter not measured.

Source: Ecology and Environment, Inc., 1991.

the wells. Appendix [D] presents the temporary monitoring well information including field parameter and groundwater elevation data.

Analytical Screening Parameters

Table 3-5 summarizes the analytical screening results for the groundwater samples collected from the five temporary monitoring wells installed on Site 12. Figure 2-2 shows the temporary monitoring well locations at Site 12. The complete analytical screening results for the groundwater samples are presented in Appendix P. All groundwater samples collected at Site 12 contained detectable concentrations of one or more of the metals. However, as will be discussed in Section 3.9, some of the metals concentrations detected may reflect acid preservative leaching/dissolution of aquifer matrix sediments entrained in these unfiltered samples, rather than actual groundwater contamination. **TRPHs, PAHs, and VOCs were not detected in any of the groundwater samples. Phenols and PCBs were present below detection limits in only three samples.**

Metals. Figure 3-6 presents the total metals concentration at each groundwater sampling location. Elevated concentrations, with respect to other on-site metals concentrations, of total metals were detected in all the groundwater samples except GW004 and GW005 (see Table 3-5 and Figure 3-6).

[Figure 3-7 presents the chromium, lead, and cadmium concentrations in the monitoring well groundwater samples across Site 12.] Chromium was detected in all the groundwater samples, except GW004, at concentrations exceeding the Florida Primary Drinking Water Standard (FPDWS) of 50 µg/L (Chapter 17-550, Florida Administrative Code (PAC)). Cadmium was detected in six samples; however, only in samples GW009, GW012, GW013, and GW016 did the concentrations exceed the FPDWS of 10 µg/L (Chapter 17-550, PAC). Lead was detected in two samples; however, only in sample GW012 did the concentration exceed the FPDWS of 50 µg/L (Chapter 17-550, PAC).

Although zinc was detected in seven samples and copper in four samples, the concentrations were below the Florida Secondary Drinking Water Standards (FSDWSs) of 5,000 µg/L and 1,000 µg/L, respectively.

Table 3-5

**SUMMARY ANALYTICAL SCREENING RESULTS FOR GROUNDWATER SAMPLES
(FROM TEMPORARY MONITORING WELLS)
HAS PENSACOLA SITE 12
(All results in µg/L, unless noted)**

Parameter	[Detection Limit	Sample Number (Location)								[FPDWS/ FSDWS
		P12GW002 (TW002)	P12GW002D ^a (TW002)	P12GW004 (TW004)	P12GW005 (TW005)	P12GW009 (TW009)	P12GW012 (TW012)	P12GW013 (TW013)	P12GW016 (TW016)	
Chromium	10	450	470	--	68	160	140	270	140	50
Zinc	20	53	85	20	--	140	360	820	330	5,000
Lead	40	--	--	--	--	--	130	--	42	50
cadmium	5	--	7.2	--	<u>7.4</u>	15	19	89	11	10
Nickel	40	--	--	--	--	--	--	41	--	
Copper	25	--	--	--	--	49	160	92	65	1,000
Phenols as Trichlorophenol	100	--	--	--	--	--	(L)	--	--	
Total PCBs	101	--	--	(L)	--	(L)	--	--	--	

14[NASP]UH6027:T0228/278/5

Key:

^a Duplicate of sample P12GW002.

[FPDWS = Florida Primary Drinking Water Standard.

FSDWS = Florida Secondary Drinking Water Standard.]

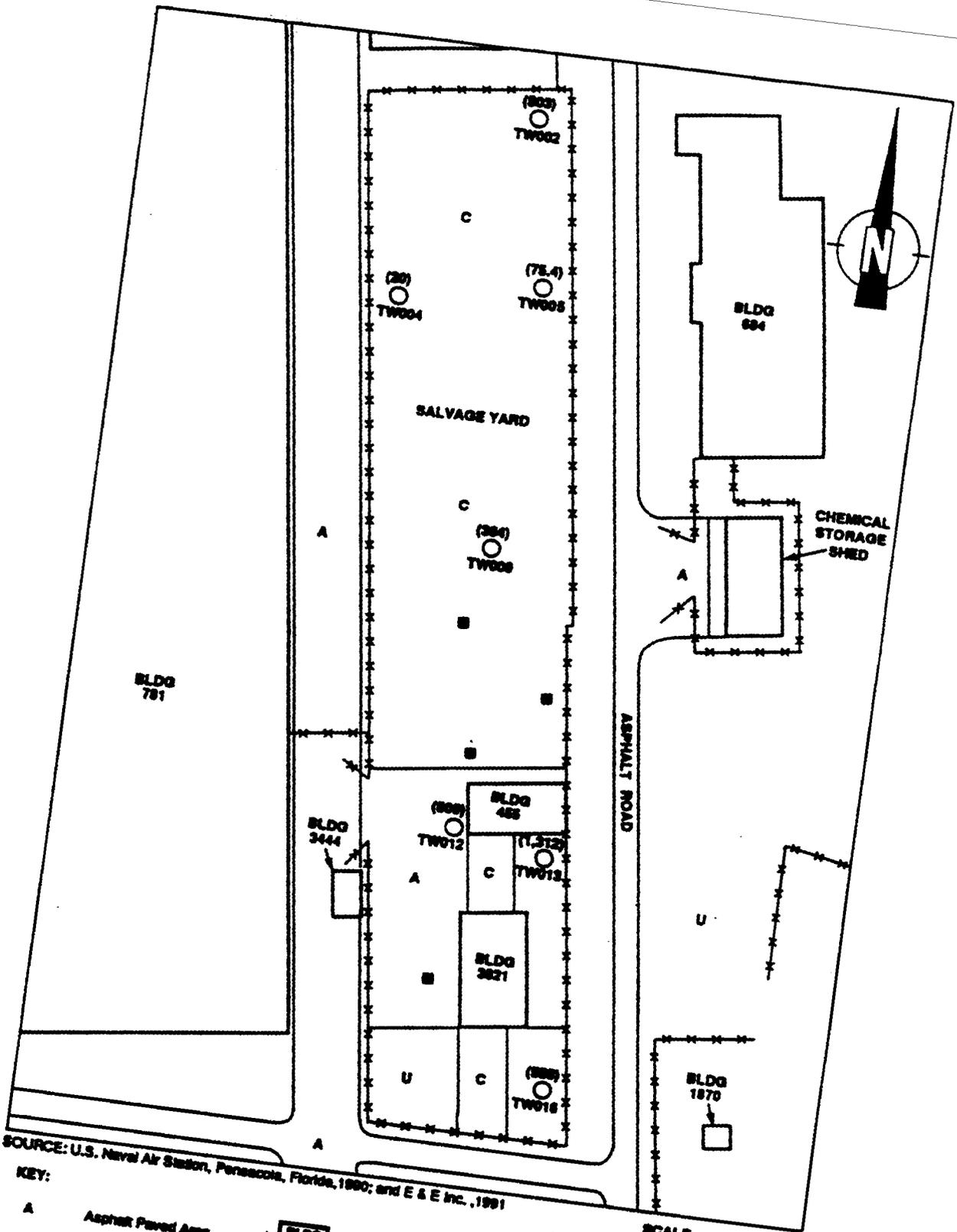
Dash (--) indicator compound not detected.

Qualifier:

(L) = Present below stated detection limit.

Soutco: Ecology and Environment, Inc., 1991.

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



SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1990; and E & E Inc., 1991

- KEY:
- A Asphalt Paved Area
 - C Concrete Paved Area
 - U Unpaved Area
 - BLDG 884 Building
 - Storm Water Drain
 - Fence
 - 0 100 200 FEET SCALE
 - Temporary Monitoring Well
 - TW002 Temporary Monitoring Well Number
 - (803) Total Metals Concentration (ug/L)

Figure 3-6 TOTAL METALS CONCENTRATIONS IN GROUNDWATER SAMPLES NAS PENSACOLA SITE 12

0000286

Table 3-5

**SUMMARY ANALYTICAL SCREENING RESULTS FOR GROUNDWATER SAMPLES
(FROM TEMPORARY MONITORING WELLS)
NAS PENSACOLA SITE 12
(All results in µg/L, unless noted)**

Parameter	[Detection Limit	Sample Number (Location)								[FPDWS/ PSDWS
		P12GW002 (TW002)	P12GW002D ^a (TW002)	P12GW004 (TW004)	P12GW005 (TW005)	P12GW009 (TW009)	P12GW012 (TW012)	P12GW013 (TW013)	P12GW016 (TW016)	
Chromium	10	450	470	--	68	160	140	270	140	SO
Zinc	20	53	85	20	--	140	360	820	330	3,000
Lead	40	--	--	--	--	--	130	--	42	SO
Cadmium	5	--	7.2	--	7.4	15	19	89	11	10
Nickel	40	--	--	--	--	--	--	41	--	
Copper	25	--	--	--	--	49	160	92	65	1,000
Phenols as Trichlorophenol	100	--	--	--	--	--	(L)	--	--	
Total PCBs	10	--	--	(L)	--	(L)	--	--	--	

14(NASP|UH6027:T0220/278/5

Key:

^a Duplicate of sample P12GW002.

[FPDWS = Florida Primary Drinking Water Standard.

PSDWS = Florida Secondary Drinking Water Standard.]

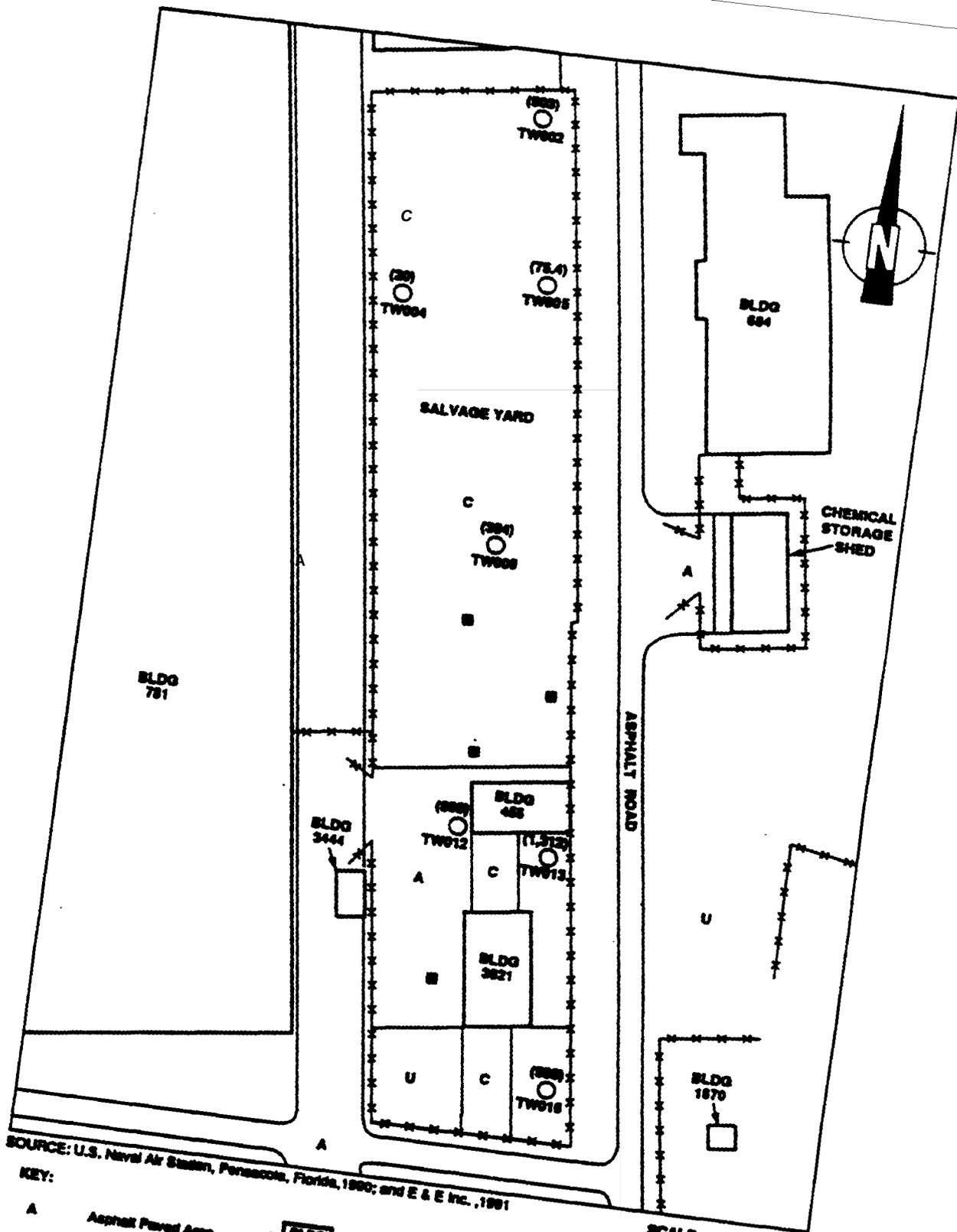
Dash (--) indicates compound not detected.

Qualifier:

(L) = Present below stated detection limit.

Source: Ecology and Environment, Inc., 1991.

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



SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1980; and E & E Inc., 1991

KEY:

- A Asphalt Paved Area
- C Concrete Paved Area
- U Unpaved Area

-  Building
-  Storm Water Drain
-  Fence

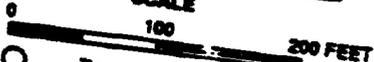
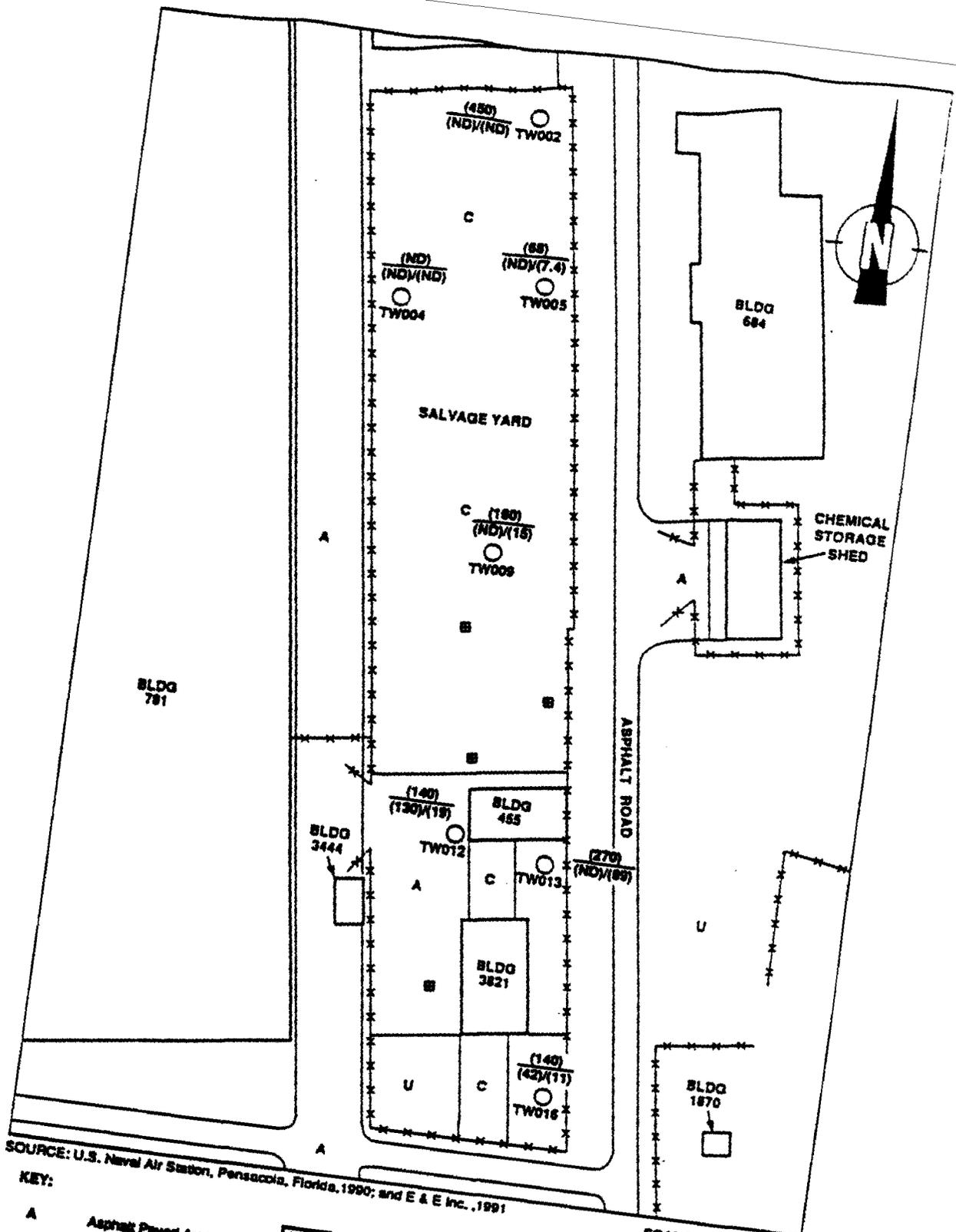
-  SCALE
0 100 200 FEET
-  Temporary Monitoring Well
-  TW902 Temporary Monitoring Well Number
-  (384) Total Metals Concentration (ug/L)

Figure 3-6 TOTAL METALS CONCENTRATIONS IN GROUNDWATER SAMPLES NAS PENSACOLA SITE 12

0000307



SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1990; and E & E Inc., 1991

KEY:

- A Asphalt Paved Area
- C Concrete Paved Area
- U Unpaved Area
- BLDG 884 Building
- Storm Water Drain
- Fence
- Temporary Monitoring Well

SCALE
0 100 200 FEET

TW002 Temporary Monitoring Well Number
(364) Total Metals Concentration (ug/L)
(140) Chromium Concentration (ug/L)
(130)(18) Lead/Cadmium Concentration (ug/L)
(ND) Not Detected

Figure 3-7 CHROMIUM, LEAD, AND CADMIUM GROUNDWATER SAMPLES

CONCENTRATIONS IN PENSACOLA SITE 12

Nickel was also detected in sample **GW013**; however, the concentration is below the Florida Groundwater Guidance Concentration of 150 µg/L (FDER 1989).

The highest metals concentrations were generally in samples collected in the south half of the site, **except** for the elevated concentrations of chromium (450 µg/L and 470 µg/L) in samples **GW002** and **GW002D**, collected at the northeast corner of the site (see Table 3-5 [and Figure 3-7]).

High metals concentrations **may** represent actual groundwater contamination; however, as previously mentioned, they **may** also reflect acid preservative leaching/dissolution of contaminants from contaminated aquifer matrix sediments entrained in the unfiltered samples (see section 3.9).

Phenols. Total phenols were present in only one sample (GW012) below the detection limit of 100 µg/L.

PCBs. Total PCBs were present in two samples (GW004 and GW009) below the detection limit of 10 µg/L.

3.8 CONTAMINATION DISTRIBUTION/SOURCE DISCUSSION

The three media, sediment, soil, and groundwater, sampled on Site 12 exhibit at least trace levels of one or more of the contaminant groups (metals, TRPHs, VOCs, PAHs, phenols, and PCBs) included in the Phase I investigation. The detected contamination appears to be associated with former and present storage activities on Site 12; however, the Phase I results also suggest the possibility that other sources of contamination are impacting Site 12.

Although none of the Site 12 media samples were analyzed for radioactive properties, the results of the radiation survey discussed in Section 3.5 indicate a potential source of radioactive contamination exists near the northeast corner of Building 3821 which is located in the southeast portion of Site 12 (see Figure 3-1). However, the nature of the source material(s) and the extent of the contamination are unknown.

and lead were detected in samples collected in the central area of the site and the area south of Building 455. In general, the highest contaminant concentrations were detected in the A sampling interval. However, as is the case for metal concentrations in boring B010, the concentrations of copper, cadmium, and lead increase with depth in some intervals. Site 12 arsenic contamination, detected in three samples from boring B008, may be impacting the Site 26 vicinity, located adjacent to and east of Site 12. Arsenic, although not detected in any Phase I Site 26 soil samples, was detected in Phase I Site 26 ground-water sample P26GW002.

In general, the distribution of elevated total metals concentrations in soil samples across the north two-thirds of the site (borings B001, B008, B010, and B013) indicates probable multiple potential sources on Site 12. In addition, the depth of potential sources at Site 12 vary. For example, in B013 samples, the highest total metals concentration of all the Site 12 soil samples was detected in the A-interval sample, but only two metals (chromium and lead) were detected in the C-interval sample, and none were detected in the B- or D-interval samples. In addition, potential contaminant sources in the area of boring B010 may extend to greater depths as the total metals concentration increases with depth. Discrete on-site sources of individual metals are difficult to determine as the types of materials stored on site may have changed over time.

TRPHs were detected in at least one sampling interval in each boring, except in boring B011. The highest levels were detected in samples collected in the west-central, southwest, and northwest areas of the site (borings B010, B001, and B015). The relatively widespread distribution of TRPHs in soil at Site 12 suggests an ambient source of TRPHs; however, multiple, potential, localized sources of TRPHs are indicated by the discrete, localized detections, which are elevated with respect to the ambient concentrations on site.

Elevated concentrations, with respect to other on-site sample concentrations, of both PAHs and phenols were detected in one sample (S015A) from the southwest area of the site; however, the highest concentration of PAHs was detected in the A-interval sample from boring B002, and the highest concentrations of phenols were detected in two

In the following sections, each of the sampled media will be discussed separately regarding the nature, distribution, and potential source(s) of contamination.

3.8.1 Sediment

One sediment sample (SD001) was collected at Site 12 from a stormwater drain. This sediment sample contained elevated levels of metals, TRPHs, PAHs, and PCBs. Any site activities conducted in the general vicinity of this stormwater drain would potentially contribute to any contamination detected in drain sediments. [The high concentrations of PCBs in the sediments may be attributable to PCB-bearing materials, such as oil, transformers, and/or capacitors, which formerly have been stored at the site.]

Copper, zinc, lead, Chromium, nickel, and cadmium were the primary metals contaminants detected in SD001. TRPHs were present at a moderate level, and PAHs and PCBs were detected at high levels.

The source of PAH and PCB contamination may be in the area of the site served by the drain (the southwest portion). As this area is used for the storage of drums labelled "hazardous waste," the possibility exists that leaks may have occurred in this area during the handling or storage of the drums. The distribution/extent of contaminated sediments in the stormwater or industrial sewer systems cannot be determined at this time; however, the high concentrations of PCBs in the sediment sample may be associated with trace levels of PCBs detected in Site 12 soil and groundwater samples (discussed in the following sections). Off-site areas potentially may be impacted by the contaminated sediments present at Site 12.

3.8.2 Soil

Elevated levels of metals, TRPHs, PAHs, and phenols were detected in one or more of the soil samples collected at Site 12. In addition, PCB concentrations were also present below detection limits in three of the soil samples. Pesticides were not detected in any of the soil samples.

Zinc and chromium were the most widespread metals contaminants detected; however, higher concentrations of arsenic, cadmium, copper,

samples from the northeast and southeast areas of the site, respectively. Again, this distribution suggests localized sources of contamination.

PCB concentrations were present below the detection limits in three samples (S007A, S008A, and S010B) collected in the central area of the site, suggesting a potential, low concentration source in this area.

3.8.3 Groundwater

Elevated levels of metals were detected in all the groundwater samples collected at Site 12, except GW004 and GW005. TRPHs, VOCs, PAHs, and pesticides were not detected in any of the groundwater samples. Phenols and PCBs were present in three samples at concentrations below detection limits.

Chromium, zinc, and cadmium were the primary metals contaminants detected. However, given that groundwater samples were very turbid and not subjected to filtration, it is possible that the elevated metal concentrations partially reflect acid preservative leaching/dissolution of aquifer matrix sediments entrained in the unfiltered groundwater samples, rather than actual groundwater contamination. Evidence that leaching/dissolution may be occurring has also been provided by the analytical results for metals in samples collected from the existing monitoring wells on sites 1 (Sanitary Landfill), 11 (North Chevalier Disposal Area), and 15 (Pesticide Rinsate Disposal Area) during the corresponding Phase I investigations. Groundwater samples from these wells were much less turbid, exhibited much lower total metals concentrations than nearby Phase I temporary monitoring wells samples, and exhibited even lower dissolved (millipore-filtered) metals concentrations. If acid preservative leaching/dissolution is occurring, then groundwater metals contamination may not be as widespread on Site 12 as suggested by the Phase I analytical screening results.

The second highest total metals concentration (809 µg/L) in Site 12 groundwater samples was detected in the sample from well TW012, located near Building 455; however, no metals were detected in the soil samples from corresponding boring B012 (at the same location). Likewise, the occurrences of cadmium in GW009 and chromium in GW002, GW009, and GW016 do not sufficiently correspond with these metal concentrations in

corresponding soil boring samples (see tables 3-3 and 3-5). The highest metals concentrations were detected in the groundwater samples collected from wells TW012, TW013, and TW016, located in the south half of the site. Relatively high chromium (450 µg/L) and zinc (53 µg/L) concentrations were also detected in sample GW002 from the northeast corner of the site.

As is the case for soil samples, multiple potential sources of groundwater metals contamination may be impacting Site 12. Source areas may include the vicinity of Building 455, southeast of Building 3821, the center of the site, and the vicinity of well TW002 in the north portion of the site. It must be noted that temporary wells were not installed into the soil borings (B008 and B010) from which the greatest concentrations of total metals, for all intervals, were collected. Thus, it is possible that results from groundwater samples collected at these locations would have indicated increased metals concentrations.

Phenols were detected in one groundwater sample (GW012), collected west of Building 455, at a concentration below the detection limit. Phenols were not detected in the soil boring samples collected at this location. Potential sources of groundwater phenol contamination may be the southwest area of the site (where drums labeled "hazardous waste" are stored) or an unknown off-site location.

PCBs were present in two groundwater samples (GW004 and GW009), collected in the north half of the site, at concentrations below the detection limit. PCBs were also detected in three of the soil samples collected in the north half of the site. There appears to be at least one source, located within or west of Site 12, contributing to groundwater PCB contamination at Site 12.

39 QA/QC

3.9.1 Field QA/QC Samples

One field duplicate sample was collected per sampling media for the Site 12 screening samples. The analytical results for the duplicate samples are presented in the summary tables for the respective media (tables 3-2, 3-3, and 3-5). The sediment, soil, and groundwater duplicate samples (SD001D, S003CD, and GW002D, respectively) were in

general agreement, within acceptable limits, with the results for the original samples.

3.9.2 Laboratory QA/QC Samples

Methylene chloride is a common laboratory-derived contaminant (EPA 1988) and was present in one of three soil method blanks and the sediment method blank analyzed at the laboratory but was not present in the groundwater method blank or in the groundwater samples. Methylene chloride also was present in the sediment sample and five of the soil samples at concentrations of the same order of magnitude above the detection limit. The occurrence of methylene chloride is probably attributable to laboratory-derived contamination.

4. CONCLUSIONS

Sediment, soil, and groundwater contamination are all present on and in the vicinity of Site 12. Metals, TRPHs, VOCs, PAHs, phenols, and PCBs are the primary contaminants. Some of the detected contamination is probably associated with former and present storage activities at the site. However, additional sources of contamination may be impacting Site 12.

A potential source of radiation contamination exists in the southeast area of Site 12, where elevated radiation readings (30 to 35 $\mu\text{R/h}$) were obtained during the radiation survey. However, the nature of the source material(s) and the extent of the contamination are unknown.

The stormwater drain sediment sample (SD001) collected at Site 12 exhibited elevated concentrations of metals, TRPHs, PAHs, and PCBs. These results indicate potential sources of contamination exist within the southwest area of the site--the area served by the drain. The high concentrations of PAHs and PCBs suggest a source exists in close proximity to this area of the site; however, these concentrations also may be residual from some prior on-site leakage.

Given that trace levels of PCBs were detected in three soil samples (S007A, S008A, and S010B) and also in two groundwater samples (GW004 and GW009) from Site 12, it is possible that a potential source of PCBs exists in the north portion of the site.

Several localized areas of soil contamination appear to be present. Elevated levels of total metals and TRPHs are generally widespread; however, the contribution of each metal varies from boring to boring across the site, suggesting multiple potential sources. Elevated total metals concentrations exist in the vicinity of soil borings B010, B008,

B013, and B001, although the depths at which the potential sources occur **may vary**. PAH and phenol contaminant distributions also indicate distinct, localized sources within or adjacent to the site area.

Groundwater total metals contamination was identified at Site 12. Metals concentrations exceeding Florida standards were detected in samples collected across the site; some of these occurrences may reflect that turbid groundwater samples were not filtered prior to acid preservation. However, groundwater metals contamination detected has occurred, to some extent, as a possible result of on-site storage of waste materials observed near buildings 455 and 3821 during the site reconnaissance (discussed in Section 3.2). Given the groundwater flow direction, groundwater in TW002 in the north portion of the site may also have been impacted by off-site activities, possibly northwest of the site.

PCB concentrations below detection limits in groundwater samples from the north portion of the site indicate a localized potential source in that area. Phenol concentrations below detection limits in groundwater samples near Building 455 may be associated with soil phenol contamination in the southwest corner of the site or with potential sources adjacent to the site; however, the source is unknown at this time.

Further assessment activities are required at and in the vicinity of Site 12.

5. REFERENCES

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5-6

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

6. FLORIDA PROFESSIONAL GEOLOGIST SEAL

I hereby affix my seal to the Interim Data Report for the Scrap Bins (Site 12) located at the Naval Air Station in Pensacola, Escambia County, Florida, in accordance with Chapter 492 of the Florida Statutes and the applicable rules and regulations developed pursuant thereto:

Name : Richard J. Rudy
License Number: P.G. No. 97
State: Florida
Expiration Date: July 31, 1992


Richard J. Rudy

10-10-11
Date

APPENDIX A

**BIRDS OBSERVED DURING
HABITAT/BIOTA SURVEY**

TEST CODE : SPNPAE1

JOB NUMBER : 9100.275

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 : BE-91-02352

MATRIX : SOLID

SAMPLE ID CLIENT: P12-SD001

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Total as Benzo-a-pyrene	14000	-	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 : 9100.275

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-91-02353

MATRIX : SOLID

SAMPLE ID CLIENT: P12-SD001D

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	3200	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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9100.275

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
T. Recoverable Petroleum Hydrocarbons	Batch OC	5.4	230	220	93

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
SAMPLE ID LAB :EE-91-02353 MATRIX: SOLID
SAMPLE ID CLIENT: P12-SD001D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
TRPH	220	-	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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : "" HODBLANK

MATRIX: SOLID

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND	-	7.0	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

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

9100.275

(mg/kg)

Parameter	B & B Laboratory No. 91- 2353	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	NC
cadmium		7.9	6.2	24
Chromium		150	50	100
Copper		340	120	96
Lead		110	92	18
Nickel		220	30	150
Silver		ND	3.1	NC
Zinc		390	410	5.0

ND = NOT DETECTED

NC = NOT CALCULABLE

SAMPLE 2353 IS NOT HOMOGENEOUS. THE SAMPLE CONTAINED MANY ARTIFACTS, SUCH AS SHELLS, METAL FILINGS ETC.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9100 275

(mg/kg)

Parameter	E & E Laboratory No. 91- 2353	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	200	130	65
Cadmium		7.9	5.0	8.8	18
Chromium		150	20	45	**
Copper		340	25	310	**
Lead		110	50	98	**
Nickel		220	50	54	**
Silver		ND	5.0	1.6	92
Zinc		390	50	380	**

ND = NOT DETECTED

** Sample amount is four or more times greater than spike amount.

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Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UR-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-02352

MATRIX: SOLID

SAMPLE ID CLIENT: P12-SD001

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		7.0	MG/KG
Chromium	40		1.0	MG/KG
Zinc	120		2.0	MG/KG
Lead	63		4.0	MG/KG
Cadmium	5.2		0.50	MG/KG
Nickel	14		4.0	MG/KG
Copper	190		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 LIHIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-02353

MATRIX: SOLID

SAMPLE ID CLIENT: P12-SD001D

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		7.0	MG/KG
Chromium	150		1.0	MG/KG
Zinc	390		2.0	MG/KG
Lead	110		4.0	MG/KG
Cadmium	7.9		0.50	MG/KG
Nickel	220		4.0	MG/KG
Copper	340		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



ecology and environment, inc.

368 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14088, TEL. 716/484-9060
International Specialists in the Environment

Analyze all preserved
accumulating to Site for
GAP for this project
(see Jack Miller)

CHAIN OF CUSTODY RECORD

Project No.: UH6050	Project Name: NASP Phase 1 A-E	Project Manager: J. Barkshire
Samplers: (Signatures) <i>George Edwards</i>		Field Team Leader: Dora Foss

STATION NUMBER	DATE 1991	TIME	SAMPLE TYPE			STATION LOCATION	NUMBER OF CONTAINERS	REMARKS									
			COMP	GSAS	AIR			EXPECTED COMPOUNDS (Concentration)*	Screening VOCs	Screening PCBs	Screening PAHs	Screening Pesticides	Screening Metals				
30 SW010	2/7	1630	X			Sur. 010 - Site 30	5	X	X	X	X	X	X	X	X	X	VOCs preserved with HCl
30 SW010D	2/7	1630	X			" 010 dup - "	5	X	X	X	X	X	X	X	X	X	Metals preserved w/ HNO ₃
30 SW008	2/7	1630	X			" 008 - " "	5	X	X	X	X	X	X	X	X	X	418.1 preserved w/ H ₂ SO ₄
30 SW012	2/7	1600	X			" 012 - " "	5	X	X	X	X	X	X	X	X	X	" See Job # 9100.276
30 SW003	2/7	1200	X			" 003 - " "	5	X	X	X	X	X	X	X	X	X	1/2 Amber: Lot# X0198033
30 SW002	2/7	1100	X			" 002 - " "	5	X	X	X	X	X	X	X	X	X	QC# X0607C
125 D001	2/8	0100	X			Job# 9100.275	3										1 Amber: Lot# 9223013
115 D001-D	2/8	0100	X				3										
																	1/2 poly: Lot# 0304013
																	QC# 0889C
																	VOCs: Lot# B0207033
																	B1219C

Relinquished By: (Signature) <i>J.S. Calhoun</i>	Date/Time: 2/8/1991	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via: Fed. Ex.
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	
Relinquished By: (Signature) Fed Ex	Date/Time: 2/7/91	Received For Laboratory By: (Signature) <i>J. Bena</i>	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
* See CONCENTRATION RANGE on back of form.

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
-----	-----	-----	-----	-----	-----
2352.01	P12-SD001	SPNPRG1	02/08/91		02/12/91
2352.02	P12-SD001	SPNTPH1	02/08/91		02/12/91
2352.03	P12-SD001	SPNMET1	02/08/91		02/12/91
		SPNP&P1	02/06/91		02/14/91
		SPNPAH1	02/08/91		02/13/91
		SPNPHL1	02/08/91		02/20/91
2353.01	P12-SD001D	SPNPRG1	02/08/91		02/12/91
2353.02	P12-SD001D	SPNTPH1	02/08/91		02/12/91
2353.03	P12-SD001D	SPNMET1	02/08/91		02/12/91
		SPNP&P1	02/08/91		02/14/91
		SPNPAH1	02/08/91		02/13/91
		SPNPHL1	02/08/91		02/20/91

M E M O R A N D U M

TO: John Barksdale
FROM: Gary Hahn *Shapiro*
DATE: February 26, 1991
SUBJECT: UH-6000 Pensacola Report
REP: 9100.275
CC: Lab File

Attached is the **laboratory** report of the **analysis** conducted on two 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 & 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

APPENDIX C
SEDIMENT SAMPLING
ANALYTICAL SCREENING RESULTS

SITE 12

GRID COORDINATES	OVA (ppm)	RADIATION (uR/h)	METAL DETECTOR (yes/no)
S7+75W2+00	1	4	Y
S8+00W0+00	1	7	Y
S8+00W0+25	1	9	Y
SE+00W0+30	1	7	N
S8+00W0+75	1	7	Y
S8+00W1+00	1	4	Y
S8+00W1+25	1	7	N
S8+00W1+50	1	7	Y
S8+00W1+75	1	6	N
S8+00W2+00	1	4	Y
S8+25W0+00	1	7	Y
S8+25W0+25	5	7	Y
S8+25W0+50	1	7	Y
S8+25W0+75	1	7	N
S8+25W1+00	1	7	N
S8+25W1+25	1	7	N
S8+25W1+50	1	7	Y
S8+25W1+75	1	4	N
S8+25W2+00	1	4	Y
S8+50W0+00	1	7	Y
S8+50W0+23	8	7	Y
S8+50W0+50	1	7	N
S8+50W0+75	1	7	Y
S8+50W1+00	1	7	N
S8+50W1+25	1	7	Y
S8+50W1+50	1	6	N
S8+50W1+75	1	4	Y
S8+30W2+00	1	4	Y
S8+60W0+25	5	7	N
S8+75W0+00	1	7	N
S8+75W0+25	1	8	Y
S8+75W0+50	1	7	Y
S8+75W0+75	1	7	Y
S8+75W1-00	1	7	N
S8+75W1+25	1	7	N
S8+75W1+30	1	6	N
S8+75W1+75	1	6	Y
S8+75W2+00	1	5	Y
S9+00W0+00	1	7	N
S9+00W0+25	1	7	N
S9+00W0+50	1	7	N
S9+00W0+75	1	7	Y
S9+00W1+00	1	7	N
S9+00W1+25	1	7	Y
S9+00W1+50	1	6	Y
S9+00W1+75	1	6	Y
S9+00W2+00	1	5	Y
S9+25W0+00	NA	NA	
S9+50W0+00	NA	NA	

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SITE 12

GRID	OVA	RADIATION	METAL DETECTOR
COORDINATES	(ppm)	(uR/h)	(yes/no)

SO+00W0+00	1	4	N
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000G418

SITE 12

GRID COORDINATES	OVA (ppm)	RADIATION? (uR/h)	METAL DETECTOR (yes/no)
S5+25W0+00	1	4	N
S5+25W0+25	1	4	Y
S5+25W0+50	1	4	N
S5+25W0+75	1	4	N
S5+25W1+00	1	4	N
S5+25W1+23	1	4	Y
S5+25W1+30	1	4	Y
S5+25W1+75	1	4	Y
S5+25W2+00	1	4	Y
S5+50W0+00	1	4	Y
S5+50W0+50	1	4	Y
S5+50W0+50	1	4	N
S5+50W0+75	1	4	N
S5+50W1+00	1	4	N
S5+50W1+25	1	4	Y
S5+50W1+50	1	4	N
S5+30W1+73	1	4	N
S5+50W2+00	1	4	Y
S5+75W0+00	1	7	Y
S5+75W0+25	1	4	Y
S5+75W0+30	1	4	Y
S5+75W0+75	1	4	N
S5+75W1+00	1	4	N
S5+75W1+25	1	4	Y
S5+75W1+50	1	4	N
S5+75W1+75	1	4	Y
S5+75W2+00	1	4	Y
S6+00W0+00	1	9	Y
S6+00W0+23	NA	SA	
S6+00W0+50	NA	SA	
S6+00W0+73	1	7	N
S6+00W1+00	1	4	N
S6+00W1+25	1	6	Y
S6+00W1+50	1	4	N
S6+00W1+75	1	8	Y
S6+00W2+00	1	3	Y
S6+25W0+00	1	9	Y
S6+E 5W0+25	1	7	Y
S6+25W0+50	1	9	N
S6+25W0+75	1	10	Y
S6+25W1+00	1	9	Y
S6+25W1+25	1	8	N
S6+25W1+50	1	6	Y
S6+25W1+75	1	8	N
S6+25W2+00	1	5	Y
S6+50W0+00	1	9	Y
S6+50W0+25	1	7	Y
S6+50W0+50	1	4	Y
S6+50W0+75	1	7	N

SITE 12

GRID OVA RADIATION METAL DETECTOR
COORDINATES (ppm) (uR/h) (yes/no)

GRID COORDINATES	OVA (ppm)	RADIATION (uR/h)	METAL DETECTOR (yes/no)
S6+50W1+00	1	7	N
S6+50W1+25	1	7	N
S6+50W1+50	1	5	N
S6+50W1+75	SA	NA	
S6+50W2+00	1	4	Y
S6+75W0+00	1	7	Y
S6+75W0+25	1	9	Y
S6+75W0+50	1	4	Y
S6+75W0+75	1	7	N
S6+75W1+00	1	4	N
S6+75W1+25	1	7	Y
S6+75W1+50	1	6	N
S6+75W1+75	1	6	Y
S6+75W2+00	1	4	Y
S7+00W0+00	1	11	Y
S7+00W0+25	1	17	Y
S7+00W0+50	1	4	Y
S7+00W0+75	1	8	N
S7+00W1-00	1	4	N
S7+00W1+25	1	7	Y
S7+00W1+50	1	7	N
S7+00W1+75	1	6	Y
S7+00W2+00	1	4	Y
S7+25W0+00	1	12	Y
S7+25W0+25	1	35	N
S7+25W0+50	10	4	N
S7+25W0+75	1	8	Y
S7+25W1+00	1	4	N
S7+25W1-25	1	7	N
S7+25W1+50	1	1	Y
S7+25W1-75	1	6	Y
S7+25W2+00	1	3	Y
S7+50W0+00	1	7	Y
S7+50W0+25	1	24	N
S7+50W0+30	4	4	N
S7+50W0+75	1	8	N
S7+50W1+00	1	4	N
S7+50W1+25	1	7	N
S7+50W1+50	1	6	Y
S7+50W1+75	1	6	Y
S7+50W2+00	1	4	Y
S7+75W0+00	1	7	Y
S7+75W0+25	1	9	Y
S7+75W0+50	1	4	N
S7+75W0+75	1	8	N
S7+75W1+00	1	4	Y
S7+75W1+25	1	7	Y
S7+75W1+50	1	7	Y
S7+75W1+75	1	6	N

0000410

SITE 12

GRID OVA RADIATION METAL DETECTOR
COORDINATES (ppm) (uR/h) (yes/no)

S2+50W0+50	1	4	N
S2+50W0+75	1	4	Y
S2+50W1+00	1	4	Y
S2+50W1+25	1	4	Y
S2+50W1+50	1	4	Y
S2+50W1+75	1	4	Y
S2+50W2+00	1	4	Y
S2+75W0+00	1	4	Y
S2+75W0+25	1	4	N
S2+75W0+50	1	4	Y
S2+75W0+75	1	4	Y
S2+75W1+00	1	4	N
S2+75W1+25	1	4	Y
S2+75W1+50	1	4	Y
S2+75W1+75	1	4	Y
S2+75W2+00	1	4	Y
S3+00W0+00	1	4	Y
S3+00W0+25	1	4	Y
S3+00W0+50	1	4	N
S3+00W0+75	1	4	Y
S3+00W1+00	1	4	Y
S3+00W1+25	1	4	Y
S3+00W1+50	1	4	Y
S3+00W1+75	1	3	Y
S3+00W2+00	1	4	Y
S3+25W0+00	1	4	Y
S3+25W0+25	1	4	Y
S3+25W0+50	1	4	N
S3+25W0+75	1	4	Y
S3+25W1+00	1	4	Y
S3+25W1+25	1	4	Y
S3+25W1+50	1	4	Y
S3+25W1+75	1	4	Y
S3+25W2+00	1	4	Y
S3+50W0+00	1	4	N
S3+50W0+25	1	4	N
S3+50W0+50	1	4	N
S3+50W0+75	1	4	Y
S3+50W1+00	1	4	Y
S3+50W1+25	1	4	Y
S3+50W1+50	1	4	Y
S3+50W1+75	1	4	Y
S3+50W2+00	1	4	Y
S3+75W0+00	1	3	Y
S3+75W0+25	1	4	Y
S3+75W0+50	1	3	N
S3+75W0+75	1	4	N
S3+75W1+00	1	3	Y
S3+75W1+25	1	4	Y

SITE 12

GRID OVA RADIATION METAL DETECTOR
COORDINATES (ppm) (uR/h) (yes/no)

S3+75W1+50	1	4	Y
S3+75W1+75	1	4	Y
S3+75W2+00	1	4	Y
S4+00W0+00	1	4	
S4+00W0+25	NA	SA	
S4+00W0+50	1	4	Y
S4+00W0+75	1	4	Y
S4+00W1+00	1	3	Y
S4+00W1+25	1	4	Y
S4+00W1+50	1	4	Y
S4+00W1+75	1	4	Y
S4+00W2+00	1	4	Y
S4+25W0+00	1	4	Y
S4+25W0+25	1	4	Y
S4+25W0+50	1	4	N
S4+25W0+73	1	4	Y
S4+25W1+00	1	4	Y
S4+25W1+25	1	4	Y
S4+25W1+50	1	4	Y
S4+25W1+75	1	4	Y
S4+25W2+00	1	1	Y
S4+50W0+00	1	4	N
S4+50W0+25	1	4	N
S4+50W0+50	1	4	N
S4+50W0+75	1	4	Y
S4+50W1+00	1	4	Y
S4+50W1+25	1	4	Y
S4+50W1+50	1	4	Y
S4+50W1+75	1	4	Y
S4+50W2+00	1	4	Y
S4+75W0+00	1	4	N
S4+75W0+23	1	4	Y
S4+75W0+50	1	4	N
S4+75W0+75	1	4	Y
S4+75W1+00	1	4	Y
S4+75W1+25	1	4	Y
S4+75W1+25	1	4	Y
S4+75W1+50	1	3	Y
S4+75W1+73	1	4	Y
S4+75W2+00	1	4	Y
S5+00W0+00	1	4	N
S5+00W0+25	1	4	N
S5+00W0+50	1	4	Y
S5+00W0+75	1	4	Y
S5+00W1+00	1	4	Y
S5+00W1+25	1	4	Y
S5+00W1+50	1	4	Y
S5+00W1+75	1	4	Y
S5+00W2+00	1	3	Y

0000420

SITE 12

GRID COORDINATES	OVA (ppm)	RADIATION (uR/h)	METAL DETECTOR (yes/no)
S0+00W0+25	1	4	Y
S0+00W0+75	1	4	Y
S0+00W1+00	1	4	Y
S0+00W 1+25	1	4	Y
S0+00W1+50	1	4	Y
S0+00W 1+75	1	4	Y
S0+00W2+00	1	4	Y
S0+00W2+00	1	4	Y
S0+25W0+00	1	4	N
S0+25W0+25	1	4	Y
S0+25W0+50	1	3	N
S0+25W0+75	1	■	N
S0+25W1+00	1	4	N
S0+25W1+25	1	4	Y
S0+25W1+50	1	4	N
S0+25W1+75	1	4	N
S0+25W2+00	1	4	N
S0+25W2+00	1	4	Y
S0+50W0+00	1	4	N
S0+50W0+25	1	4	N
S0+50W0+50	1	4	N
S0+50W0+75	1	4	Y
S0+50W1+00	1	4	Y
S0+50W 1+25	1	4	N
S0+50W 1+50	1	4	N
S0+50W 1+75	1	4	Y
S0+50W2+00	1	4	N
S0+50W2+00	1	4	Y
S0+75W0+00	1	4	N
S0+75W0+25	1	4	N
S0+75W0+50	1	4	N
S0+75W0+50	1	7	Y
S0+75W0+75	1	I	Y
S0+75W1+00	1	4	Y
S0+75W1+25	1	4	Y
S0+75W 1+50	1	4	N
S0+75W1+75	1	4	N
S0+75W2+00	1	4	N
S0+75W2+00	1	4	Y
S1+00W0+00	1	■	N
S1+00W0+25	1	4	N
S1+00W0+50	1	4	N
S1+00W0+75	1	3	Y
S1+00W 1+00	1	4	Y
S1+00W 1+25	1	4	Y
S1+00W1+50	1	4	N
S1+00W1+75	1	4	N
S1+00W2+00	1	4	N
S1+00W2+00	1	4	Y

SITE 12

GRID OVA RADIATION METAL DETECTOR
COORDISATES (ppm) (uR/h) (yes/noj)

S1+25W0+00	1	4	N
S1+25W0+25	1	4	Y
S1+25W0+50	1	4	Y
S1+25W0+75	1	4	Y
S1+25W1+00	NA	NA	
S1+25W1+25	SA	NA	
S1+25W1+50	1	4	N
S1+25W1+75	1	4	N
S1+25W2+00	1	4	N
SI+25W2+00	1	4	Y
S1+50W0+00	1	4	Y
S1+50W0+25	1	4	N
S1+50W0+50	1	4	Y
S1+50W0+75	1	4	Y
S1+50W1+00	NA	NA	
S1+50W1+25	SA	NA	
SI+50W1+50	1	4	Y
S1+50W1+75	1	4	Y
S1+50W2+00	1	4	Y
S1+50W2+00	1	4	Y
S1+75W0+00	1	4	N
S1+75W0+25	1	4	N
S1+75W0+50	1	4	N
S1+75W0+75	1	4	Y
S1+75W1+00	1	4	Y
S1+75W1+25	1	4	N
S1+75W1+50	1	4	Y
S1+75W1+75	1	4	Y
S1+75W2+00	1	4	Y
S2+00W0+00	1	4	N
S2+00W0+25	1	4	Y
S2+00W0+50	1	4	Y
S2+00W0+75	1	4	N
S2+00W1+00	1	4	Y
S2+00W1+25	1	4	Y
S2+00W1+50	1	4	Y
S2+00W1+75	1	4	Y
S2+00W2+00	1	4	Y
S2+25W0+00	1	4	N
S2+25W0+25	1	4	Y
S2+25W0+50	1	J	Y
S2+25W0+75	1	4	Y
S2+25W1+00	1	4	Y
S2+25W1+25	1	4	Y
S2+25W1+50	1	4	Y
S2+25W1+75	1	4	Y
S2+25W2+00	1	4	Y
S2+50W0+00	1	4	N
S2+50W0+25	1	4	Y

0000421

APPENDIX B

SURFACE EMISSIONS, RADIATION,
AND METAL DETECTOR SURVEY DATA

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

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

Forested wetland area, including mature hardwoods and thick undergrowth mixed with emergent vegetation such as cattails.

Yellow-bellied Sapsucker	<u>Sphyrapicus varius</u>
Brown Thrasher	<u>Toxostoma rufum</u>
Harsh Wren	<u>Cistothorus palustris</u>
American Goldfinch	<u>Carduelis tristis</u>
Prairie Warbler	<u>Dendroica discolor</u>
Northern Flicker	<u>Colaptes auratus</u>
Cardinal	<u>Cardinalis cardinalis</u>
Bluejay	<u>Cyanocitta cristata</u>
Northern Mockingbird	<u>Mimus polyglottos</u>
Wood Thrush	<u>Eylocichla mustelina</u>

14[NASP]UH6027:T0228/tab-A1/309

0000423

BIRDS OBSERVED DURING HABITAT/BIOTA SURVEY
OCTOBER 1990

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

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

Upland mature **hardwood** forest with **some mix** of pines.

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

Beachfront, including sborcline 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	<u>Sterna porsteri</u>
Herring Gull	<u>Larus argentatus</u>
Semi-palmated Plover	<u>Charadrius semipalmatus</u>
Great Blue Eeron	<u>Ardea herodias</u>
Semi-palmated Sandpiper	<u>Calidris pusilla</u>
Willet	<u>Catoptrophorus semipalmatus</u>
Ruddy Turnstone	<u>Arenaria interpres</u>
Royal Tern	<u>Sterna maxima</u>
Sandwich Tern	<u>Sterna sandircensis</u>
Roseate Tern	<u>Sterna dougallii</u>
Common Tern	<u>Sterna hirundo</u>
Brown Pelican	<u>Pelecanus occidentalis</u>
Killdeer	<u>drius ferus</u>
Chipping Sparrow	<u>Spizella passtrina</u>
Eastern Wood Pewee	<u>Contopus borealis</u>
Bluejay	<u>Cyanocitta cristata</u>
Osprey	<u>Pandion haliaetus</u>
Belted Kingfisher	<u>Ceryle alcyon</u>
Fish Crow	<u>Corvus ossifragus</u>
Mourning Dove	<u>Zenaida macroura</u>
Double Crested Cormorant	<u>Phalacrocorax auritus</u>
Northern Mockingbird	<u>Mimus polyglottos</u>
Sanderling	<u>Calidris alba</u>
Least Sandpiper	<u>Calidris minutilla</u>
Little Blue Eeron	<u>Egretta caerulea</u>
Short-billed Dovitcher	<u>Limnodromus griseus</u>
Laughing Gull	<u>Larus atricilla</u>
Black-bellied Plover	<u>Pluvialis squatarola</u>
Tree Swallow	<u>Tachycineta bicolor</u>
Acadian Flycatcher	<u>Empidonax virescens</u>
House Wren	<u>Troglodytes aedon</u>

0000424

TEST CODE : SPNPHL1

JOB NUMBER : 9100.275

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

TEST CODE :SPNP&P1

JOB NUMBER :9100.275

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 : 591-02352

MATRIX : SOLID

SAMPLE ID CLIENT: P12-SD001

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	120000		5000

QUALIFIERS: C - COMMENT

ND - NOT DETECTED

J - ESTIMATED VALUE

B - ALSO PRESENT IN BLANK

L - PRESENT BELOW STATED DETECTION LIMIT

0000425

TEST CODE :SPNPHL1

JOB NUMBER :9100.275

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-91-02353

MATRIX : SOLID

SAMPLE ID CLIENT: P12-SD001D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9100.275

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Trichlorophenol					
	Batch QC	ND	50	26	52

ND - NOT DETECTED

00426

TEST CODE :SPNPAH1

JOB NUMBER :9100.275

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET 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 :9100.275

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-91-02352

MATRIX : SOLID

SAMPLE ID CLIENT: P12-SD001

<u>PARAMETER</u>	<u>RESULTS</u>	<u>0</u>	<u>DET. LIMIT</u>
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

0000427

TEST CODE :SPNP&P1

JOB NUMBER :9100.275

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-91-02353

MATRIX : SOLID

SAMPLE ID CLIENT: P12-SD001D

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	81000		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 :9100.275

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 : METHOD BLANK

MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000428

APPENDIX D

TEMPORARY MONITORING WELL,
SOIL BORING, AND LITROLOGIC INFORMATION

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 12
- 2) Boring no./Well no.: P12B001
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/08/91
- 6) Geologist: A. Twitty
- 7) Depth of boring (BLS): 20.0
- 8) Depth to water in borehole (BLS): 18.0
- 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 LITBIOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.6	Cement in upper 6 inches.
0.6-1	Silty sand, dark brown, fine to medium grained.
1-6	Sand with minor silt, moderate yellow brown.
6-11	Sand, light yellow brown, fine to medium grained.
11-13	Sand, dark to medium brown, medium grained.
13-20	Sand, light tan to white medium to coarse grained. Water at 18 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.: 12
- 2) Boring no./Well no. : P12B002/P12TW002
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/10/91
- 6) Geologist: A. Twitty
- 7) Depth of boring (BLS): 20.0
- 8) Depth to water in borehole (BLS): 18.0
- 9) Highest open-borehole OVA/HnU reading (ppm): 5
- 10) Depth of well (BLS): 19.0
- 11) Length of well screen: 5
- 12) Length of casing (BLS): 14.02
- 13) Aprox. height of casing above land surface: 0.98
- 14) Depth to water in well (BTOC): 16.65
- 15) Elevation of TOC: 19.53
- 16) Water level elevation: 2.88
- 17) Date groundwater sampled: 01/11/91
- 18) pH (units): 6.80
- 19) Temperature (degrees C): 23.4
- 20) Specific conductance (umhos/cm): 197
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.6	Cement in upper 8 inches.
0.6-1	Silty sand, medium brown with some pebbles.
1-5	Silty sand, reddish brown, fine to medium grained.
5-7	Sand, moderate yellow brown, fine to medium grained.
7-9.5	Sand, dark brown to blackish brown with minor silt.
9.5-20	Sand, light tan to white, fine to medium grained. Water at 18 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

0000400

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 12
- 2) Boring no./Well no.: P12B003
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/08/91
- 6) Geologist: A. Twitty
- 7) Depth of boring (BLS): 20.0
- 8) Depth to water in borehole (BLS): 18.0
- 9) Highest open-borehole OVA/HnU reading (ppm): 3
- 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	Cement in upper 8 inches.
0.6-1	Sand with minor silt, brown, fine to medium grained.
1-1	Sand, moderate yellow brown, fine to medium grained.
1-7	Sand, gray-brown, fine to medium grained.
7-16	Sand, light tan to white, fine to medium grained.
16-20	Sand, medium brown at 16 ft. Water at 18 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.: 12
- 2) Boring no./Well no.: P12B004/P12TW004
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/10/91
- 6) Geologist: A. Twitty
- 7) Depth of boring (ELS): 20.0
- 8) Depth to water in borehole (ELS): 16.5
- 9) Highest open-borehole OVA/HnU reading (ppm): 1
- 10) Depth of well (ELS): 18.7
- 11) Length of well screen: 5
- 12) Length of casing (BLS): 13.70
- 13) Aprox. height of casing above land surface: 1.30
- 14) Depth to water in well (BTOC): 16.90
- 15) Elevation of TOC: 19.82
- 16) Water level elevation: 2.92
- 17) Date groundwater sampled: 01/11/91
- 18) pH (units): 6.35
- 19) Temperature (degrees C): 22.8
- 20) Specific conductance (umhos/cm): 123
- 21) Borehole/Well abandonment method:
- 22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.6	Cement in upper 8 inches.
0.6-1.2	Silty clayey sand, reddish brown to 1.2 ft.
1.2-6	Sand, moderate yellow brown, fine to medium grained.
6-10	Silty sand, gray-brown with minor clay at 6 ft.
10-13	Silty sand with minor clay, gray-brown, becomes sand, light tan to white, medium grained to 13 ft.
13-20	Sand, light tan to white, medium grained. Water at 16.5 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

0000431

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 12
- 2) Boring no./Well no.: P12B005/P12TW005
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/09/91
- 6) Geologist: A. Twitty
- 7) Depth of boring (BLS): 20.0
- 8) Depth to water in borehole (BLS): 17.0
- 9) Highest open-borehole OVA/HnU reading (ppm): 4
- 10) Depth of well (BLS): 18.9
- 11) Length of well screen: 5
- 12) Length of casing (BLS): 13.92
- 13) Aprox. height of casing above land surface: 1.08
- 14) Depth to water in well (BTOC): 17.02
- 15) Elevation of TOC: 19.36
- 16) Water level elevation: 2.84
- 17) Date groundwater sampled: 01/11/91
- 18) pH (units): 6.82
- 19) Temperature (degrees C): 24.2
- 20) Specific conductance (umhos/cm): 215
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) Comments :

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.6	Cement in upper 8 inches.
0.6-1	Silty sand, medium brown, fine to medium grained.
1-5	Sand, light brown to tan at 1 foot.
5-9	Sandy, silty clay (30%,30%,40%), gray-brown, moist.
9-11	Sand, light brown fine to medium grained.
11-15	Sand, tan to white, medium grained.
15-20	Sand, light brown, medium grained. Water at 17 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.: 12
- 2) Boring no./Well no.: P12B006
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/08/91
- 6) Geologist: A. Tvitty
- 7) Depth of boring (BLS): 20.0
- 8) Depth to water in borehole (BLS): 17.0
- 9) Highest open-borehole OVA/HnU reading (ppm): 1
- 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	Cement in upper 8 inches.
0.6-1	Silty sand, dark brown, fine to medium grained at 8 inches.
1-5	Sand, moderate yellow brown to tan with minor silt at 1 foot.
5-12	Sand, light tan to white, medium grained.
12-14	Sand, tan to white.
14-20	Sand, light gray to white, medium grained. Water at 17 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

0000422

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 12
- 2) Boring no./Well no.: P12B007
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/08/91
- 6) Geologist: A. Twitty
- 7) Depth of boring (BLS): 20.0
- 8) Depth to water in borehole (BLS): 17.0
- 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 LITEOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.6	Cement in upper 8 inches.
0.6-1	Silty sand with gravel, dark brown, fine to medium grained.
1-5	Sand with minor silt, moderate yellow brown.
5-11	Sand, light yellow-brown, fine to medium grained.
11-20	Sand, light tan to white, medium grained. Water at 17 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.: 12
- 2) Boring no./Well no.: P12B008
- 3) Drilling firm: Grincr Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/08/91
- 6) Geologist: A. Twitty
- 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 (BIOC): 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	Cement in upper 8 inches.
0.6-1	Silty sand, medium brown, fine to medium grained at 8 inches.
1-7	Sand, light brown, fine to medium grained.
7-10	Sand, grayish tan, medium grained.
10-20	Sand, light gray to white, medium grained, becomes light brown at 18 ft. Water 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
 BIOC = below top of casing

0000433

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 12
- 2) Boring no./Well no.: P12B009/P12TW009
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/10/91
- 6) Geologist: A. Twitty
- 7) Depth of boring (BLS): 20.0
- 8) Depth to water in borehole (BLS): 16.0
- 9) Highest open-borehole OVA/HnU reading (ppm): 0
- 10) Depth of well (BLS): 18.7
- 11) Length of well screen: 5
- 12) Length of casing (BLS): 13.21
- 13) Aprox. height of casing above land surface: 1.29
- 14) Depth to water in well (BTOC): 16.45
- 15) Elevation of TOC: 19.49
- 16) Water level elevation: 3.04
- 17) Date groundwater sampled: 01/11/91
- 18) pH (units): 6.20
- 19) Temperature (degrees C):
- 20) Specific conductance (umhos/cm): 270
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) Comments :

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.6	Cement in upper 8 inches.
0.6-1	Clayey, silty sand, medium brown.
1-4	Sand, moderate yellow brown with minor silt, fine to medium grained to 4 ft.
4-20	Sand, light tan to white, medium grained. Water at 16 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
 BA = hand auger

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

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 12
- 2) Boring no./Well no.: P12B010
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/17/91
- 6) Geologist: A. Twitty
- 7) Depth of boring (BLS): 20.0
- 8) Depth to water in borehole (BLS): 17.0
- 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) Approx. 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	Concrete in upper 8 inches.
0.6-1.5	Clayey silty sand, medium to dark brown with minor red, fine to medium grained.
1.5-4	Sand with minor silt, moderate yellow brown.
4-5	Sand, medium to dark gray.
5-20	Sand, light tan to white, fine to medium grained. Water at 17 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

0000434

SOIL BORING/TEMPORARY MONITORING WELL INPOWITION

- 1) Site no.: 12
- 2) Boring no./Well no.: P12B011
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/08/91
- 6) Geologist: A. Twitty
- 7) Depth of boring (BLS): 20.0
- 8) Depth to water in borehole (BLS): 18.0
- 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
0-0.6	Cement in upper 8 inches.
0.6-1	Sand, moderate yellow brown, fine to medium grained to 1 foot.
1-5	Sand, light yellow brown.
5-8	Sand, medium gray-brown, fine to medium grained.
8-11	Sand, light gray to tan, fine to medium grained.
11-20	Sand, tan to white, fine to medium grained. Water at 18 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.: 12
- 2) Boring no./Well no.: P12B012/P12TW012
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/10/91
- 6) Geologist: A. Twitty
- 7) Depth of boring (BLS): 20.0
- 8) Depth to water in borehole (BLS): 16.0
- 9) Highest open-borehole OVA/HnU reading (ppm): 2
- 10) Depth of well (BLS): 18.8
- 11) Length of well screen: 5
- 12) Length of casing (BLS): 13.83
- 13) Aprox. height of casing above land surface: 1.17
- 14) Depth to water in well (BTOC): 15.90
- 15) Elevation of TOC: 19.10
- 16) Water level elevation: 3.20
- 17) Date groundwater sampled: 01/11/91
- 18) pH (units): 6.20
- 19) Temperature (degrees C):
- 20) Specific conductance (umhos/cm): 250
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.2	Asphalt in upper 3 inches.
0.2-1	Silty clayey sand, dark reddish brown with pebbles.
1-5	Sand, moderate yellow brown with minor silt.
5-10	Sand, light gray-brown, fine to medium grained.
10-15	Sand, light gray to white, fine to medium grained.
15-20	Same, water at 16 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 wed 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

0000435

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no. : 12
- 2) Boring no./Well no.: P12B013/P12TW013
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/09/91
- 6) Geologist: A. Tvitly
- 7) Depth of boring (BLS): 20.0
- 8) Depth to water in borehole (BLS): 17.0
- 9) Highest open-borehole OVA/EnU reading (ppm): 0
- 10) Depth of well (BLS): 18.8
- 11) Length of well screen: 5
- 12) Length of casing (BLS): 13.83
- 13) Aprox. height of casing above land surface: 1.17
- 14) Depth to water in well (BTOC): 15.95
- 15) Elevation of TOC: 19.03
- 16) Water level elevation: 3.08
- 17) Date groundwater sampled: 01/11/91
- 18) pH (units): 6.40
- 19) Temperature (degrees C):
- 20) Specific conductance (umhos/cm): 280
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.5	Silty sand, light brown to gray with shells and pebbles.
0.5-1	Clayey silty sand, reddish brown.
1-7	Sand, moderate yellow brown to light brown.
7-10	Sand, tan, medium grained to 10 ft.
10-20	Sand, light tan to white, medium grained. Water at 17 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
 BA = hand auger

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

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 12
- 2) Boring no./Well no.: P12B014
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/07/91
- 6) Geologist: A. Tvitty
- 7) Depth of boring (BLS): 17.0
- 8) Depth to water in borehole (BLS): 15.0
- 9) Highest open-borehole OVA/HnU reading (ppm): 8
- 10) Depth of well (BLS): NA
- 11) Length of well screen: NA
- 12) Length of casing (BLS): NA
- 13) Approx. 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
0-0.5	Silty sand with gravel and shell fragments, light gray, fine to medium grained, then reddish brown to brown clay at 0.5 ft
0.5-2	Sand with minor silt, moderate yellow brown.
2-6	Sand, medium gray, fine to medium grained.
6-17	Sand, light tan to white, fine to medium grained. Water at 15 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

0000436

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 12
- 2) Boring no./Well no.: P12B015
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/07/91
- 6) Geologist: A. Twitty
- 7) Depth of boring (BLS): 20.0
- 8) Depth to water in borehole (BLS): 18.0
- 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
0-0.5	Sand with gravel and shell fragments in upper 0.5 ft.
0.5-2	Sand, silty, clayey sand, dark reddish brown, fine to medium grained.
2-5	Sand, with minor silt, moderate yellow brown, fine to medium grained.
5-6	Sand, moderate yellow brown, fine to medium grained.
6-8	Sand, medium gray, fine to medium grained.
8-20	Sand, light tan to white. Water at 18 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.: 12
- 2) Boring no./Well no.: P12B016/P12TW016
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 01/09/91
- 6) Geologist: A. Tvitty
- 7) Depth of boring (BLS): 20.0
- 8) Depth to water in borehole (ELS): 16.0
- 9) Highest open-borehole OVA/HnU reading (ppa): 0
- 10) Depth of well (ELS): 18.6
- 11) Length of well screen: 5
- 12) Length of casing (ELS): 15.58
- 13) Aprox. height of casing above land surface: 1.42
- 14) Depth to water in well (BTOC): 15.90
- 15) Elevation of TOC: 19.00
- 16) Water level elevation: 3.10
- 17) Date groundwater sampled: 01/11/91
- 18) pH (units): 6.20
- 19) Temperature (degrees C): 21.8
- 20) Specific conductance (umhos/cm): 280
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0-0.5	Silty sand, gray with shell and cobbles to 0.5 ft.
0.5-1	Silty clayey sand, dark reddish brown to dark gray.
1-5	Sand, moderate yellow brown, fine to medium grained.
5-20	Sand, light tan to white, medium grained.

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

0000437

APPENDIX E
SOIL SAMPLING
ANALYTICAL SCREENING RESULTS

M E M O R A N D U M

TO: John Barksdale
FROM: Gary Hahn *[Handwritten Signature]*
DATE: February 5, 1991
SUBJECT: UH-6000 Pensacola Report
REF: 9100.040
CC: Lab File

Attached is the laboratory report of the analysis conducted on thirty-six samples received at the Analytical Services Curter on January 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.

GH:tms
enclosure

MEMORANDUM

TO: John Barksdale
FROM: Gary Hahn *[Handwritten Signature]*
DATE: February 5, 1991
SUBJECT: UE-6000 Pensacola Report
REF: 9100.091
CC: Lab File

Attached is the laboratory report of the analysis conducted on twenty-eight samples received at the Analytical Services Curter on January 14, 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 B & 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.

GE:ms
enclosure

0000439

Job # 9100.091
 Sample Range 821 → 848

CHAIN-OF-CUSTODY RECORD

Project No.: NH6020		Project Name: NASP-Phase I A-E		Project Manager: J. Parisdale					
Collectors: (Signatures)		Mia Corto		Field Team Leader: A. Tutty					
STATION NUMBER	DATE	TIME	SAMPLE TYPE			STATION LOCATION	NUMBER OF CONTAINERS	REMARKS	
			SOIL	SLURRY	SLURRY				
EXPECTED COMPOUNDS (Concentration)*									
P12	SOUSA	1/9	0943	X		low level	Site 12 boring 5	3	<p>SCREENING PASS SCREENING PASS</p> <p>Per JARS - Lot # X0298023 GL # X0879C</p> <p>VOCs - Lot # B9251043 GL # B086C</p>
P12	SOUSB	1/9	0944	V			boring 5	3	
P12	SOUSC	1/9	0952	X			boring 5	3	
P12	SOUSD	1/9	1003	X			boring 5	3	
P12	SO13A	1/9	1332	X			boring 13	3	
P12	SO13B	1/9	1338	X			boring 13	3	
P12	SO13C	1/9	1347	X			boring 13	3	
P12	SO13D	1/9	1352	X			boring 13	3	
P12	SO16A	1/9	1423	X			boring 16	3	
P12	SO16B	1/9	1430	X			boring 16	3	
P12	SO16C	1/9	1437	X			boring 16	3	
P12	SO16D	1/9	1447	X			boring 16	3	
P12	SO12A	1/10	0841	X			boring 22	3	
P12	SO12B	1/10	0849	X			boring 22	3	
Released By: (Signature)		Date/Time: 1/10/91 13:15		Received By: (Signature)		Date/Time:		Ship Via: Federal Express	
Retrieved By: (Signature)		Date/Time:		Received By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)	
Retrieved By: (Signature)		Date/Time: 9:30		Received For Laboratory By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)	

Distribution: Original Accompanies Shipment; Copy Retained for Field Use
 *See CONCENTRATION RANGE on back of form.

0000441

Job # 9/100.091
 Sample Range - 821 - 848

CHAIN-OF-CUSTODY RECORD

Project No.: ULY 020		Project Name: NASP Phase I A-E			Project Manager: J. Barksdale		EXHAUSTION PHOS SULPHUR DIOXIDE SULPHUR TRIOXIDE CARBON MONOXIDE CARBON DIOXIDE A1821		REMARKS		
Sample: [Signature]		Signature: Mike Conti			Field Team Leader: A. Tuttle						
STATION NUMBER	DATE 1991	TIME	SAMPLE TYPE			SAMPLE INFORMATION	STATION LOCATION	NUMBER OF CONTAINERS			
			COOL	GRAS	AIR						EXPECTED COMPOUNDS (Concentration)*
P17	SO12C	1/10	0954	X		Low	Site 12, boring	12	X	X	
P17	SO12D	1/10	0926	X				12	X	X	
P17	SO09A	1/10	0930	X				12	X	X	
P17	SO09B	1/10	0935	X				12	X	X	
P17	SO09C	1/10	0942	X				12	X	X	
P17	SO09D	1/10	0952	X				12	X	X	
P17	SO02A	1/10	1016	X				12	X	X	
P17	SO02B	1/10	1021	X				12	X	X	
P17	SO02C	1/10	1028	X				12	X	X	
P17	SO02D	1/10	1040	X				12	X	X	
P17	SO04A	1/10	1110	X				12	X	X	
P17	SO04B	1/10	1115	X				12	X	X	
P17	SO04C	1/10	1121	X				12	X	X	
P17	SO04D	1/10	1129	X				12	X	X	
Relinquished By: (Signature) [Signature]		Date/Time: 1/10 13:15		Received By: (Signature) Fed Ex		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Relinquished By: (Signature)		Date/Time		Received By: (Signature)		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Relinquished By: (Signature) Fed Ex		Date/Time: 9:30 1-14-91		Received For Laboratory By: (Signature)		Relinquished By: (Signature)		Date/Time		Received For Laboratory By: (Signature)	
Relinquished By: (Signature)		Date/Time		Received By: (Signature)		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
										BL/Airbill Number: 95484552 Date: 1/10/91 Express	

Distribution: Original Accompanies Shipment; Copy to Coordinator of Field File

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
367.01	P12-S001A	SPNPRG1	01/08/91		01/11/91
367.02	P12-S001A	SPNTPH1	01/08/91		01/10/91
367.03	P12-S001A	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
368.01	P12-S001B	SPNPRG1	01/08/91		01/11/91
368.02	P12-S001B	SPNTPH1	01/08/91		01/10/91
368.03	P12-S001B	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
369.01	P12-S001C	SPNPRG1	01/08/91		01/11/91
369.02	P12-S001C	SPNTPH1	01/08/91		01/10/91
369.03	P12-S001C	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
370.01	P12-S001D	SPNPRG1	01/08/91		01/11/91
370.02	P12-S001D	SPNTPH1	01/08/91		01/10/91
370.03	P12-S001D	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
371.01	P12-S003A	SPNPRG1	01/08/91		01/11/91
371.02	P12-S003A	SPNTPH1	01/08/91		01/10/91
371.03	P12-S003A	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
372.01	P12-S003B	SPNPRG1	01/08/91		01/11/91
372.02	P12-S003B	SPNTPH1	01/08/91		01/10/91
372.03	P12-S003B	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
373.01	P12-S003C	SPNPRG1	01/08/91		01/11/91
373.02	P12-S003C	SPNTPH1	01/08/91		01/10/91
373.03	P12-S003C	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
374.01	P12-S003C DUP	SPNPRG1	01/08/91		01/11/91
374.02	P12-S003C DUP	SPNTPH1	01/08/91		01/10/91
374.03	P12-S003C DUP	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91

0000442

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
374.03	P12-S003C DUP	SPNPHL1	01/08/91		01/19/91
375.01	P12-S003D	SPNPRG1	01/08/91		01/11/91
375.02	P12-S003D	SPNTPH1	01/08/91		01/10/91
375.03	P12-S003D	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
376.01	P12-S006A	SPNPRG1	01/08/91		01/11/91
376.02	P12-S006A	SPNTPH1	01/08/91		01/10/91
376.03	P12-S006A	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
377.01	P12-S006B	SPNPRG1	01/08/91		01/11/91
377.02	P12-S006B	SPNTPH1	01/08/91		01/10/91
377.03	P12-S006B	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
378.01	P12-S006C	SPNPRG1	01/08/91		01/11/91
378.02	P12-S006C	SPNTPH1	01/08/91		01/10/91
378.03	P12-S006C	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
379.01	P12-S006D	SPNPRG1	01/08/91		01/11/91
379.02	P12-S006D	SPNTPH1	01/08/91		01/10/91
379.03	P12-S006D	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPBL1	01/08/91		01/19/91
380.01	P12-S007A	SPNPRG1	01/08/91		01/11/91
380.02	P12-S007A	SPNTPH1	01/08/91		01/10/91
380.03	P12-S007A	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPBL1	01/08/91		01/19/92
381.01	P12-S007B	SPNPRG1	01/08/91		01/11/91
381.02	P12-S007B	SPNTPH1	01/08/91		01/10/91
381.03	P12-S007B	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
382.01	P12-S007C	SPNPRG1	01/08/91		01/11/91
382.02	P12-S007C	SPNTPH1	01/08/91		01/10/91
382.03	P12-S007C	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
382.03	P12-S007C	SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
383.01	P12-S007D	SPNPRG1	01/08/91		01/11/91
383.02	P12-S007D	SPNTPH1	01/08/91		01/10/91
383.03	P12-S007D	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
384.01	P12-S008A	SPNPRG1	01/08/91		01/11/91
384.02	P12-S008A	SPNTPH1	01/08/91		01/10/91
384.03	P12-S008A	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
385.01	P12-S008B	SPNPRG1	01/08/91		01/11/91
385.02	P12-S008B	SPNTPH1	01/08/91		01/10/91
385.03	P12-S008B	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
386.01	P12-S008C	SPNPRG1	01/08/91		01/11/91
386.02	P12-S008C	SPNTPH1	01/08/91		01/11/91
386.03	P12-S008C	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
387.01	P12-S008D	SPNPRG1	01/08/91		01/11/91
387.02	P12-S008D	SPNTPH1	01/08/91		01/11/91
387.03	P12-S008D	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
388.01	P12-S010A	SPNPRG1	01/07/91		01/11/91
388.02	P12-S010A	SPNTPH1	01/07/91		01/10/91
388.03	P12-S010A	SPNMET1	01/07/91		01/10/91
		SPNP&P1	01/07/91		01/10/91
		SPNPAH1	01/07/91		01/19/91
		SPNPHL1	01/07/91		01/19/91
389.01	P12-S010B	SPNPRG1	01/07/91		01/11/91
389.02	P12-S010B	SPNTPH1	01/07/91		01/10/91
389.03	P12-S010B	SPNMET1	01/07/91		01/10/91
		SPNP&P1	01/07/91		01/10/91
		SPNPAH1	01/07/91		01/19/91
		SPNPHL1	01/07/91		01/19/91
390.01	P12-S010C	SPNPRG1	01/07/91		01/11/91
390.02	P12-S010C	SPNTPH1	01/07/91		01/10/91
390.03	P12-S010C	SPNMET1	01/07/91		01/10/91

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Ecology and Environment, Inc.
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LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
390.03	P12-S010C	SPNP&P1	01/07/91		01/10/91
		SPNPAH1	01/07/91		01/19/91
		SPNPHL1	01/07/91		01/19/91
391.01	P12-S010D	SPNPRG1	01/07/91		01/11/91
391.02	P12-S010D	SPNTPH1	01/07/91		01/10/91
391.03	P12-S010D	SPNMET1	01/07/91		01/10/91
		SPNP&P1	01/07/91		01/10/91
		SPNPAE1	01/07/91		01/19/91
		SPNPHL1	01/07/91		01/19/91
392.01	P12-S011A	SPNPRG1	01/08/91		01/11/91
392.02	P12-S011A	SPNTPH1	01/08/91		01/11/91
392.03	P12-S011A	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPEL1	01/08/91		01/19/91
393.01	P12-S011B	SPNPRG1	01/08/91		01/11/91
393.02	P12-S011B	SPNTPH1	01/08/91		01/11/91
393.03	P12-S011B	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
394.01	P12-S011C	SPNPRG1	01/08/91		01/11/91
394.02	P12-S011C	SPNTPH1	01/08/91		01/11/91
394.03	P12-S011C	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAE1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
395.01	P12-S011D	SPNPRG1	01/08/91		01/11/91
395.02	P12-S011D	SPNTPH1	01/08/91		01/11/91
395.03	P12-S011D	SPNMET1	01/08/91		01/10/91
		SPNP&P1	01/08/91		01/10/91
		SPNPAH1	01/08/91		01/19/91
		SPNPHL1	01/08/91		01/19/91
396.01	P12-S014A	SPNPRG1	01/07/91		01/11/91
396.02	P12-S014A	SPNTPH1	01/07/91		01/10/91
396.03	P12-S014A	SPNMET1	01/07/91		01/10/91
		SPNP&P1	01/07/91		01/10/91
		SPNPAH1	01/07/91		01/19/91
		SPNPHL1	01/07/91		01/19/91
397.01	P12-S014B	SPNPRG1	01/07/91		01/11/91
397.02	P12-S014B	SPNTPH1	01/07/91		01/10/91
397.03	P12-S014B	SPNMET1	01/07/91		01/10/91
		SPNP&P1	01/07/91		01/10/91
		SPNPAH1	01/07/91		01/19/91
		SPNPHL1	01/07/91		01/19/91
398.01	P12-S014C	SPNPRG1	01/07/91		01/11/91
398.02	P12-S014C	SPNTPH1	01/07/91		01/10/91

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
398.03	P12-S014C	SPNMET1	01/07/91		01/10/91
		SPNP&P1	01/07/91		01/10/91
		SPNPAH1	01/07/91		01/19/91
		SPNPHL1	01/07/91		01/19/91
399.01	P12-S015A	SPNPRG1	01/07/91		01/11/91
399.02	P12-S015A	SPNTPH1	01/07/91		01/10/91
399.03	P12-S015A	SPNMET1	01/07/91		01/10/91
		SPNP&P1	01/07/91		01/10/91
		SPNPAH1	01/07/91		01/19/91
		SPNPHL1	01/07/91		01/19/91
400.01	P12-S015B	SPNPRG1	01/07/93		01/11/91
400.02	P12-S015B	SPNTPH1	01/07/91		01/10/91
400.03	P12-S015B	SPNMET1	01/07/91		01/10/91
		SPNP&P1	01/07/91		01/10/91
		SPNPAH1	01/07/91		01/19/91
		SPNPHL1	01/07/91		01/19/91
401.01	P12-S015C	SPNPRG1	01/07/91		01/11/91
401.02	P12-S015C	SPNTPH1	01/07/91		01/10/91
401.03	P12-S015C	SPNMET1	01/07/91		01/10/91
		SPNP&P1	01/07/91		01/10/91
		SPNPAH1	01/07/91		01/19/91
		SPNPHL1	01/07/91		01/19/91
402.01	P12-S015D	SPNPRG1	01/07/91		01/11/91
402.02	P12-S015D	SPNTPH1	01/07/91		01/10/91
402.03	P12-S015D	SPNMET1	01/07/91		01/10/91
		SPNP&P1	01/07/91		01/10/91
		SPNPAH1	01/07/91		01/19/91
		SPNPHL1	01/07/91		01/19/91

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Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
821.01	P12-S002A	SPNPRG1	01/10/91		01/18/91
821.02	P12-S002A	SPNTPH1	01/10/91		01/15/91
821.03	P12-S002A	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91
		SPNPAH1	01/10/91		01/31/91
		SPNPHL1	01/10/91		01/24/91
822.01	P12-S002B	SPNPRG1	01/10/91		01/18/91
822.02	P12-S002B	SPNTPH1	01/10/91		01/15/91
822.03	P12-S002B	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91
		SPNPAH1	01/10/91		01/31/91
		SPNPEL1	01/10/91		01/24/91
823.01	P12-S002C	SPNPRG1	01/10/91		01/18/91
823.02	P12-S002C	SPNTPH1	01/10/91		01/15/91
823.03	P12-S002C	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91
		SPNPAH1	01/10/91		01/31/91
		SPNPHL1	01/10/91		01/24/91
824.01	P12-S002D	SPNPRG1	01/10/91		01/18/91
824.02	P12-S002D	SPNTPH1	01/10/91		01/15/91
824.03	P12-S002D	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91
		SPNPAH1	01/10/91		01/31/91
		SPNPEL1	01/10/91		01/24/91
825.01	P12-S004A	SPNPRG1	01/10/91		01/18/91
825.02	P12-S004A	SPNTPH1	01/10/91		01/15/91
825.03	P12-S004A	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91
		SPNPAH1	01/10/91		01/31/91
		SPNPEL1	01/10/91		01/24/91
826.01	P12-S004B	SPNPRG1	01/10/91		01/18/91
826.02	P12-S004B	SPNTPH1	01/10/91		01/15/91
826.03	P12-S004B	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91
		SPNPAH1	01/10/91		01/31/91
		SPNPHL1	01/10/91		01/24/91
827.01	P12-S004C	SPNPRG1	01/10/91		01/18/91
827.02	P12-S004C	SPNTPH1	01/10/91		01/15/91
827.03	P12-S004C	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91
		SPNPAH1	01/10/91		01/31/91
		SPNPHL1	01/10/91		01/24/91
828.01	P12-S004D	SPNPRG1	01/10/91		01/18/91
828.02	P12-S004D	SPNTPH1	01/10/91		01/15/91
828.03	P12-S004D	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91
		SPNPAH1	01/10/91		01/31/91

Ecology and Environment, Inc.
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LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
828.03	P12-S004D	SPNPHL1	01/10/91		01/24/91
829.01	P12-S005A	SPNPRG1	01/09/91		01/18/91
829.02	P12-S005A	SPNTPH1	01/09/91		01/15/91
829.03	P12-S005A	SPNMET1	01/09/91		01/16/91
		SPNP&P1	01/09/91		01/17/91
		SPNPAH1	01/09/91		01/31/91
		SPNPHL1	01/09/91		01/24/91
830.01	P12-S005B	SPNPRG1	01/09/91		01/18/91
830.02	P12-S005B	SPNTPH1	01/09/91		01/15/91
830.03	P12-S005B	SPNMET1	01/09/91		01/16/91
		SPNP&P1	01/09/91		01/17/91
		SPNPAH1	01/09/91		01/31/91
		SPNPHL1	01/09/91		01/24/91
831.01	P12-S005C	SPNPRG1	01/09/91		01/18/91
831.02	P12-S005C	SPNTPH1	01/09/91		01/15/91
831.03	P12-S005C	SPNMET1	01/09/91		01/16/91
		SPNP&P1	01/09/91		01/17/91
		SPNPAH1	01/09/91		01/31/91
		SPNPHL1	01/09/91		01/24/91
832.01	P12-S005D	SPNPRG1	01/09/91		01/18/91
832.02	P12-S005D	SPNTPH1	01/09/91		01/19/91
832.03	P12-S005D	SPNMET1	01/09/91		01/16/91
		SPNP&P1	01/09/91		01/17/91
		SPNPAH1	01/09/91		01/31/91
		SPNPHL1	01/09/91		01/24/91
833.01	P12-S009A	SPNPRG1	01/10/91		01/18/91
833.02	P12-S009A	SPNTPH1	01/10/91		01/15/91
833.03	P12-S009A	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91
		SPNPAH1	01/10/91		01/31/91
		SPNPHL1	01/10/91		01/24/91
834.01	P12-S009B	SPNPRG1	01/10/91		01/18/91
834.02	P12-S009B	SPNTPH1	01/10/91		01/15/91
834.03	P12-S009B	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91
		SPNPAH1	01/10/91		01/31/91
		SPNPHL1	01/10/91		01/24/91
835.01	P12-S009C	SPNPRG1	01/10/91		01/18/91
835.02	P12-S009C	SPNTPH1	01/10/91		01/15/91
835.03	P12-S009C	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91
		SPNPAH1	01/10/91		01/31/91
		SPNPHL1	01/10/91		01/24/91
836.01	P12-S009D	SPNPRG1	01/10/91		01/18/91
836.02	P12-S009D	SPNTPH1	01/10/91		01/15/91
836.03	P12-S009D	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91

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Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
836.03	P12-S009D	SPNPAE1	01/10/91		01/31/91
		SPNPEL1	01/10/91		01/24/91
837.01	P12-S012A	SPNPRG1	01/10/91		01/18/91
837.02	P12-S012A	SPNPEL1	01/10/91		01/15/91
837.03	P12-S012A	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91
		SPNPAH1	01/10/91		01/31/91
		SPNPHL1	01/10/91		01/24/91
838.01	P12-S012B	SPNPRG1	01/10/91		01/18/91
838.02	P12-S012B	SPNTPH1	01/10/91		01/15/91
838.03	P12-S012B	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91
		SPNPAH1	01/10/91		01/31/91
		SPNPEL1	01/10/91		01/24/91
839.01	P12-S012C	SPNPRG1	01/10/91		01/18/91
839.02	P12-S012C	SPNTPEL1	01/10/91		01/15/91
839.03	P12-S012C	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91
		SPNPAH1	01/10/91		01/31/91
		SPNPEL1	01/10/91		01/24/91
840.01	P12-S012D	SPNPRG1	01/10/91		01/18/91
840.02	P12-S012D	SPNPEL1	01/10/91		01/15/91
840.03	P12-S012D	SPNMET1	01/10/91		01/16/91
		SPNP&P1	01/10/91		01/17/91
		SPNPAH1	01/10/91		01/31/91
		SPNPEL1	01/10/91		01/24/91
841.01	P12-S013A	SPNPRG1	01/09/91		01/18/91
841.02	P12-S013A	SPNPEL1	01/09/91		01/15/91
841.03	P12-S013A	SPNMET1	01/09/91		01/16/91
		SPNP&P1	01/09/91		01/17/91
		SPNPAH1	01/09/91		01/31/91
		SPNPEL1	01/09/91		01/24/91
842.01	P12-S013B	SPNPRG1	01/09/91		01/18/91
842.02	P12-S013B	SPNTPH1	01/09/91		01/15/91
842.03	P12-S013B	SPNMET1	01/09/91		01/16/91
		SPNP&P1	01/09/91		01/17/91
		SPNPAH1	01/09/91		01/31/91
		SPNPHL1	01/09/91		01/24/91
843.01	P12-S013C	SPNPRG1	01/09/91		01/18/91
843.02	P12-S013C	SPNTPH1	01/09/91		01/15/91
843.03	P12-S013C	SPNMET1	01/09/91		01/16/91
		SPNP&P1	01/09/91		01/17/91
		SPNPAE1	01/09/91		01/31/91
		SPNPEL1	01/09/91		01/24/91
844.01	P12-S013D	SPNPRG1	01/09/91		01/18/91
844.02	P12-S013D	SPNPEL1	01/09/91		01/15/91
844.03	P12-S013D	SPNMET1	01/09/91		01/16/91

Ecology and Environment, Inc.
 SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
844.03	P12-S013D	SPNP&P1	01/09/91		01/17/91
		SPNPAH1	01/09/91		01/31/91
		SPNPHL1	01/09/91		01/24/91
845.01	P12-S016A	SPNPRG1	01/09/91		01/18/91
845.02	P12-S016A	SPNTPH1	01/09/91		01/15/91
845.03	P12-S016A	SPNMET1	01/09/91		01/16/91
		SPNP&P1	01/09/91		01/17/91
		SPNPAH1	01/09/91		01/31/91
		SPNPHL1	01/09/91		01/24/91
846.01	P12-S016B	SPNPRG1	01/09/91		01/18/91
846.02	P12-S016B	SPNTPH1	01/09/91		01/15/91
846.03	P12-S016B	SPNMET1	01/09/91		01/16/91
		SPNP&P1	01/09/91		01/17/91
		SPNPAH1	01/09/91		01/31/91
		SPNPHL1	01/09/91		01/24/91
847.01	P12-S016C	SPNPRG1	01/09/91		01/18/91
847.02	P12-S016C	SPNTPH1	01/09/91		01/15/91
847.03	P12-S016C	SPNMET1	01/09/91		01/16/91
		SPNP&P1	01/09/91		01/17/91
		SPNPAH1	01/09/91		01/31/91
		SPNPHL1	01/09/91		01/24/91
848.01	P12-S016D	SPNPRG1	01/09/91		01/18/91
848.02	P12-S016D	SPNTPH1	01/09/91		01/15/91
848.03	P12-S016D	SPNMET1	01/09/91		01/16/91
		SPNP&P1	01/09/91		01/17/91
		SPNPAH1	01/09/91		01/31/91
		SPNPHL1	01/09/91		01/24/91

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Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00367

MATRIX: SOLID

SAUPLE ID CLIENT: P12-S001A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
-----	-----	-	-----	-----
Arsenic	ND		6.9	MG/KG
Chromium	7.3		1.0	MG/KG
Zinc	24		2.0	MG/KG
Lead	11		4.0	MG/KG
Cadmium	2.3		0.50	MG/KG
Nickel	7.3		4.0	MG/KG
Copper	29		2.5	MG/KG
Silver	ND		1.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIUATED 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

SAMPLE ID LAB : EE-91-00368

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S001B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND	-	6.9	MG/KG
Chromium	1.4		1.0	MG/KG
Zinc	6.0		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	8.3		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00369

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S001C

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	2.7		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	13		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-00370

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S001D

PARAMETER	RESULTS	0	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	ND		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 = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

0000418

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN VET WEIGHT

SAMPLE ID LAB : EE-91-00821

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S002A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	2.1		1.0	MG/KG
Zinc	18		2.0	MG/KG
Lead	16		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	3.2		25	MG/KG
Silver	ND		1.0	MG/KG

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QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIHATED 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

SAMPLE ID LAB : EE-91-00822

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S002B

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
-----	-----	-	-----	-----
Arsenic	ND		6.9	MG/KG
Chromium	2.4		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

0000449

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00823

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S002C

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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00824

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S002D

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

0000450

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : **UH-6000 NASP PHASE I GROUPS A-E**

RESULTS IN **WET** WEIGHT

SAMPLE ID LAB : **EE-91-00371**

MATRIX: **SOLID**

SAMPLE ID CLIENT: **P12-S003A**

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.9	MG/KG
Chromium	3.7		1.0	MG/KG
Zinc	7.0		2.0	MG/KG
Lead	20		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00372

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S003B

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	IUD		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

0000451

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00373

MATRIX: SOLID

SAHPLE ID CLIENT: P12-S003C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.9	MG/KG
Chromium	ND		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

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 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 PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00374

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S003C DUP

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00375

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S003D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND	-	6.9	MG/KG
Chromium	2.4		1.0	MG/KG
Zinc	5.5		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00825

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S004A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

0000453

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00826

MATRIX: SOLID

SAUPLE ID CLIENT: P12-S004B

PARAMETER	RESULTS	Q	DET. LIUIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.7		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00827

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S004C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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
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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00828

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S004D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIHIT</u>	<u>UNITS</u>
Arsenic	ND		6.9	MG/KG
Chromium	23		1.0	MG/KG
Zinc	2.1		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	9.4		4.0	MG/KG
Copper	2.6		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 LIHIT

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-00829
SAMPLE ID CLIENT: P12-S005A

MATRIX: SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

0000455

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00830

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S005B

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	7.9		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN VET WEIGHT

SAMPLE ID LAB : EE-91-00831

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S005C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

0000456

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN VET WEIGHT

SAMPLE ID LAB : BE-91-00832

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S005D

PARAMETER	RESULTS	a	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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I CROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00376

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S006A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
-----	-----	-	-----	-----
Arsenic	ND		6.9	MG/KG
chromium	1.5		1.0	MG/KG
Zinc	44		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	2.2		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

0000457

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00377

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S006B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	UD	-	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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B
RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-00378
SAMPLE ID CLIENT: P12-S006C

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
&ad	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

0000458

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00379

MATRIX: SOLID

SAHPLE ID CLIENT: P12-S006D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

Biology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00380

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S007A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND	-	6.9	MG/KG
Chromium	1.1		1.0	MG/KG
Zinc	3.5		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	0.58		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	39		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

0000459

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UR-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00381

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S007B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIHIT</u>	<u>UNITS</u>
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

METALS SECTION

JOB NUMBER :9100.040

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-00382

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S007C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

0000460

Ecology and **Environment**, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET **WEIGHT**

SAMPLE ID LAB : EE-91-00383

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S007D

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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-00384

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S008A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	11		6.9	MG/KG
Chromium	4.5		1.0	MG/KG
Zinc	18		2.0	MG/KG
Lead	16		4.0	MG/KG
Cadmium	3.3		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	9.7		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

0000461

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00385

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S0088

<u>PARAMETER</u>	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	39		6.9	MG/KG
Chromium	2.2		1.0	MG/KG
Zinc	5.0		2.0	MG/KG
Lead	8.1		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

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-6000 NASP PHASE I CROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00386

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S008C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	7.0	-	6.9	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	6.8		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00387

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S008D

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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00833

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S009A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.9	MG/KG
Chromium	2.1		1.0	MG/KG
Zinc	5.4		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

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Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00834

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S009B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIHIT</u>	<u>UNITS</u>
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
 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

SAMPLE ID LAB : EE-91-00835

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S009C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.9	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	2.2		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00836

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S009D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIHIT</u>	<u>UNITS</u>
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 = ☉ ——— ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIHIT

**Ecology and Environment, Inc.
Analytical Services Center**

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-00388

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S010A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	26		1.0	MG/KG
Zinc	24		2.0	MG/KG
Lead	6.8		4.0	MG/KG
Cadmium	6.9		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	14		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00389

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S010B

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	5.1		1.0	MG/KG
Zinc	21		2.0	MG/KG
Lead	18		4.0	MG/KG
Cadmium	4.1		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	65		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : RE-91-00390

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S010C

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND	-	6.9	MG/KG
Chromium	2.9		1.0	MG/KG
Zinc	23		2.0	MG/KG
Lead	20		4.0	MG/KG
Cadmium	0.4		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	54		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 VET WEIGHT

SAMPLE ID LAB : EE-91-00391

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S010D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.9	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	3.8		2.0	MG/KG
Lead	7.4		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	3.4		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-00392

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S011A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND	-	6.9	MG/KG
Chromium	1.6		1.0	MG/KG
Zinc	21		2.0	MG/KG
Lead	5.4		4.0	MG/KG
Cadmium	0.60		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

0000467

Ecology and Environment, Inc.
Analytical Services CenterCLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00393

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S011B

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	ND		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00394

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S011C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.9	MG/KG
Chromium	ND		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00837

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S012A

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

0000460

Ecology and Environment, Inc.
Analytical Services Center

CLIENT UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00838

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S012B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>0</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-6000 NASP PHASE I GROUPS A-E

RESULTS IN VET WEIGHT

SAMPLE ID LAB : BE-91-00839

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S012C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

0000470

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-00840

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S012D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : RE-91-00841

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S013A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.9	MG/KG
Chromium	6.3		1.0	MG/KG
Zinc	39		2.0	MG/KG
Lead	24		4.0	MG/KG
Cadmium	12		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	35		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

0000471

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00842

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S013B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

Biology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-00843

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S013C

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND	-	6.9	MG/KG
Chromium	1.3		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	5.4		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00844

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S013D

PARAMETER	RESULTS	Q	DET. LIHIT	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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-B

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00396

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S014A

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
-----	-----	-	-----	-----
Arsenic	ND		6.9	MG/KG
Chromium	1.7		1.0	MG/KG
Zinc	4.6		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

0000473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : Uti-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-00397

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S014B

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	3.5		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I CROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-00396

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S014C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND	-	6.9	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	24		2.0	MG/KG
Lead	6.1		6.0	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

0000474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00399

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S015A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
-				
Arsenic	ND		6.9	MG/KG
Chromium	2.7		1.0	MG/KG
Zinc	7.9		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	1.4		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00400

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S015B

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
-----	-----	-	-----	-----
Arsenic	ND		6.9	MG/KG
Chromium	2.0		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

0000475

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN VET WEIGHT

SAMPLE ID LAB : EE-91-00401

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S015C

P-----	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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : HE-91-00402

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S015D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

0000470

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UR-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00845

MATRIX: SOLID

SMPLE ID CLIENT: P12-S016A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.9	MG/KG
Chromium	5.3		1.0	MG/KG
Zinc	21		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 :9100.091

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-00846
SAMPLE ID CLIENT: P12-S016B

MATRIX: SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

0000477

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN VET WEIGHT

SAMPLE ID LAB : EE-91-00847

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S016C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-00848

MATRIX: SOLID

SAMPLE ID CLIENT: P12-S016D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

0000478

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

9100.040

(mg/kg)

Parameter	E & E Laboratory No. 91- 00374	Original Analysis	Replicate Analysis	Relative Prccnt Difference (RPD)
Arsenic		ND	ND	--
Chromium		ND	1.1	--
Zinc		ND	2.4	--
Lead		ND	ND	--
Cadmium		ND	ND	--
Nickel		ND	ND	--
Copper		ND	ND	--
Silver		ND	ND	--

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9100.040

(mg/kg)

Parameter	E & E Laboratory No. 91- 00374	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	200	220	110
Chromium		ND	20	27	135
Zinc		ND	50	54	108
Lead		ND	50	43	86
Cadmium		ND	5.0	5.4	108
Nickel		ND	50	54	108
Copper		ND	25	24	96
Silver		ND	5.0	4.5	90

0000473

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

9100.040

(mg/kg)

Parameter	E & E Laboratory No. 91- 00384	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		11	15	31
Chromium		4.5	4.3	4.5
Zinc		18	17	5.7
Lead		16	18	12
Cadmium		3.3	3.8	14
Nickel		ND	ND	--
Copper		9.7	6.0	47
Silver		ND	ND	--

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9100.040

(ng/kg)

Parameter	E & B Laboratory No. 91- 00384	Original Value	Amount Add	Amount Determined	Percent Recovery
Arsenic		11	200	230	110
Chromium		4.5	20	29	122
Zinc		18	50	79	122
Lead		16	50	04	136
Cadmium		3.3	5.0	10	134
Nickel		ND	50	36	112
Copper		9.7	25	34	97
Silver		ND	5.0	4.8	96

0000480

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

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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 PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOLID SAMPLES**

9100.091

(mg/kg)

Parameter	E & E Laboratory No. 91- 00830	Original Analysis	Replicate Analysis	Relative Percent Differenct (RPD)
Arsenic		ND	ND	--
Chromium		7.9	8.4	6.1
Zinc		ND	2.4	--
Lead		ND	ND	--
Cadmium		ND	ND	--
Nickel		ND	ND	--
Copper		ND	ND	--
Silver		ND	ND	--

0000481

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID **SAMPLES**

9100.091

(ng/kg)

Parameter	E & E Laboratory No. 91- 00830	Original Value	Amount Added	Amount Determincd	Percent Recovery
Arsenic		ND	200	180	90
Chromium		7.9	20	30	110
Zinc		ND	50	48	96
Lead		ND	50	--	
Cadmium		ND	5.0	4.5	90
Nickel		ND	50	45	90
Copper		ND	25	25	100
Silver		ND	5.0	4.5	90

* No recovery.

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

9100.091

(ng/kg)

Parameter	B I B Laboratory No. 91- 00840	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	--
Chromium		ND	ND	--
Zinc		ND	ND	--
Lead		ND	ND	--
Cadmium		ND	ND	--
Nickel		ND	ND	--
Copper		ND	ND	--
Silver		ND	ND	--

0000482

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9100.091

(mg/kg)

Parameter	E & E	Original	Amount	Amount	Percent
	Laboratory				
	No. 91-				
	00840				
Arsenic		ND	200	180	90
Chromium		ND	20	19	95
Zinc		ND	50	47	94
Lead		ND	50	42	84
Cadmium		ND	5.0	4.5	90
Nickel		ND	50	47	94
Copper		ND	25	23	92
Silver		ND	5.0	4.2	84

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

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

0000483

Ecology and Environment, Inc.
Analytical Services Center

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

SAMPLE ID	RESULTS	Q	DET. LIMIT
EE-91-00367 P12-S001A	56	-	5.0
EE-91-00368 P12-S001B	13	-	5.0
EE-91-00369 P12-S001C	51	-	5.0
EE-91-00370 P12-S001D	10	-	5.0
EE-91-00371 P12-S003A	22	-	5.0
EE-91-00372 P12-S003B	19	-	5.0
EE-91-00373 P12-S003C	13	-	5.0
EE-91-00374 P12-S003C DUP	17	-	5.0
EE-91-00375 P12-S003D	14	-	5.0
EE-91-00376 P12-S006A	38	-	5.0
EE-91-00377 P12-S006B	6.4	-	5.0
EE-91-00378 P12-S006C	7.9	-	5.0
EE-91-00379 P12-S006D	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

Ecology and Environment, Inc.
Analytical Services Center

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

SAMPLE ID	RESULTS	Q	DET. LIMIT
EE-91-00380 P12-S007A	8.4		5.0
EE-91-00381 P12-S007B	ND		5.0
BE-91-00382 P12-S007C	ND		5.0
EE-91-00383 P12-S007D	ND		5.0
HE-91-00384 P12-S008A	ND		5.0
EE-91-00385 P12-S008B	7.8		5.0
EE-91-00386 P12-S008C	N D .		5.0
EE-91-00387 P12-S008D	ND		5.0
EE-91-00388 P12-S010A	110		5.0
EE-91-00389 P12-S010B	65		5.0
EE-91-00390 P12-S010C	56		5.0
EE-91-00391 P12-S010D	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

0000484

Ecology and Environment, Inc.
Analytical Services Center

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

SAMPLE ID	RESULTS	Q	DET. LIMIT
EE-91-00392 P12-S011A	ND	-	5.0
EE-91-00393 P12-S011B	ND		5.0
EE-91-00394 P12-S011C	ND		5.0
EE-91-00395 P12-S011D	ND		5.0
EE-91-00396 P12-S014A	12		5.0
EE-91-00397 P12-S014B	5.2		5.0
EE-91-00398 P12-S014C	5.0		5.0
EE-91-00399 P12-S015A	89		5.0
EE-91-00400 P12-S015B	24		5.0
EE-91-00401 P12-S015C	20		5.0
EE-91-00402 P12-S015D	14		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

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-91-00821 P12-S002A	20	-	5.0
BB-91-00822 P12-S002B	9.6		5.0
EE-91-00823 P12-S002C	5.9		5.0
BE-91-00824 P12-S002D	9.7		5.0
EE-91-00825 P12-S004A	9.5		5.0
BE-91-26 P12-S004B	9.7		5.0
EE-91-00827 P12-S004C	17		5.0
BE-91-00828 P12-S004D	8.6		5.0
EE-91-00829 P12-S005A	7.3		5.0
EE-91-00830 P12-S005B	19		5.0
EB-91-00831 P12-S005C	23		5.0
EE-91-00832 P12-S005D	22		5.0
EE-91-00833 P12-S009A	24		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

0000485

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-6000 NASP PEASE I GROUPS A-E
TEST NAME : PNC TRPE UNITS : MG/KG
PARAMETER : TRPE

SAMPLE ID	RESULTS	Q	DET. LIMIT
EE-91-00834 P12-S009B	18		5.0
EE-91-00835 P12-S009C	8.9		5.0
EE-91-00836 P12-S009D	19		5.0
EE-91-00837 P12-S012A	22		5.0
EE-91-00838 P12-S012B	12		5.0
EE-91-00839 P12-S012C	6.3		5.0
EE-91-00840 P12-S012D	13		5.0
EE-91-00841 P12-S013A	11		5.0
EE-91-00842 P12-S013B	19		5.0
EE-91-00843 P12-S013C	11		5.0
EE-91-00844 P12-S013D	ND		5.0
EE-91-00845 P12-S016A	8.2		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

Ecology and Environment, Inc.
Analytical Services CenterCLIENT : UH-6000 NASP PEASE I GROUPS A-E
TEST NAME : PNC TRPH UNITS : MG/KG
PARAMETER : TRPH

SAMPLE ID	RESULTS	Q	DET. LIMIT
EE-91-00846 P12-S016B	ND	-	5.0
EE-91-00847 P12-S016C	ND	-	5.0
EE-91-00848 P12-S016D	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

0000486

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

9100.040

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
T. Petroleum Hydrocarbons	00399	89	110	21

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9100.040

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	h u n t D e t e r m i n e d	Percent Recovery
T. Petroleum Hydrocarbons	00370	10	790	750	94
	00377	6.4	820	750	91
	00393	ND	860	810	94

0000487

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

9100.091

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Analysis	Replicate Analysis	Relative Percnt Difference (RPD)
T. Petroleum Hydrocarbons	00838	12	ND	--

**QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES**

9100.091

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
T. Petroleum					
Hydrocarbons	00821	20	790	730	90
	00845	0.2	840	770	91

0000438

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-91-00367

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S001A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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	1300		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 Curter

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-91-00368

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S001B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>a</u>	<u>DET. LIMIT</u>
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

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-91-00369

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S001C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 - Dichloroathane	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

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 : BE-91-00370

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S001D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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	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

0000450

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-91-00821

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S002A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIHIT</u>
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, - Dichloroethcne	ND		1000
1,1 - dichloroethanc	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - 'Dichloroethanc	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

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-91-00822

MATRIX : SOLID

SAMPLE ID CLIENT: P12-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	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethane	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

0000491

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-91-00823

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S002C

PARAMETER	RESULTS	Q	DET. LIMIT
-----	-----	-	-----
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzenc	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
Tetrachloroethane	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 : BE-91-00824

MATRIX : SOLID

SAMPLE ID CLIENT: P12-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

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-91-00371

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S003A

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

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 : BE-91-00372

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S003B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000493

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-91-00373

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S003C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethanr	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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I CROUPS A-E

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-00374

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S003C 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	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

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-91-00375

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S003D

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, - Ddchloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroathane	ND		1000
Trichloroethcne	ND		1000
Tetrachloroethene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIHATED 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 VET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00825

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S004A

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
Tetrachloroethenc	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-91-00826 MATRIX : SOLID
SAMPLE ID CLIENT: P12-S004B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000496

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-91-00827

MATRIX : SOLID

SAHPLE ID CLIENT: P12-S004C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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
Hcthylene 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

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

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-91-00828

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S004D

PARAMETER	RESULTS	Q	DBT. 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

0000497

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-91-00829 MATRIX : SOLID
 SAHPLE ID CLIENT: P12-S005A

P-----	RESULTS	Q	DET. LIHIT
-----	-----	-	-----
Benzene	ND		1000
Toluene	ND		1000
Ethylbcnzcne	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
Hcthylenc Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethanc	ND		1000
1,1,1 - Trichloroethanc	ND		1000
1,2 - Dichloroethanc	ND		1000
Trichloroethene	ND		1000
Tetrachloroethanc	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 : BE-91-00830

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S005B

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 - dichloroethane	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethane	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethane	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

0000498

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-91-00831

MATRIX : SOLID

SAMPLE ID CLIENT: P12-SOOSC

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethane	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 PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00832

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S005D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000499

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-91-00376

MATRIX : SOLID

SAHPLE ID CLIENT: P12-S006A

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

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 : BE-91-00377

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S006B

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	2800	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

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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-91-00378

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S006C

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
1,2 - 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

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-91-00379

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S006D

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	4000	B	1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethane	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

0000501

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-91-00380

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S007A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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	ND		1000
Trans-1,2, - Dichloroethenc	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 : 9100.040

Ecology and Environment, Inc.
Analytical Services Curter

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET UBI—

TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-00381 MATRIX : SOLID
SAMPLE ID CLIENT: P12-S007B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000502

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-91-00382

MATRIX : SOLID

SAHPLE ID CLIENT: P12-S007C

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

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-91-00383

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S007D

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

0000503

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 : BE-91-00384

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S008A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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
Trichloroethane	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

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 : EE-91-00385

MATRIX : SOLID

SAMPLE ID CLIENT: P12-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 - dichloroethane	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethane	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethane	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

0000504

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-91-00386

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S008C

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 - dichloroathene	ND		1000
Methylene Chloride	ND		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
Tetrachloroethane	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-91-00387

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S008D

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

0000505

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-91-00833

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S009A

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

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

SAHPLE ID LAB : EE-91-00834

SAMPLE ID CLIENT: P12-S009B

UNITS : UG/KG

MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000506

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-91-00835

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S009C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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, - Dichloroethenc	ND	-	1000
1,1 - dichloroethane	ND	-	1000
1,1,1 - Trichloroethanc	ND	-	1000
1,2 - Dichloroethane	ND	-	1000
Trlchloroethcnc	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 PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00836

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S009D

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

0000507

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-91-00388

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S010A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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	1100	B	1000
Trans-1,2, - Dichloroethcne	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichlorwthene	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 : BE-91-00389

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S010B

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 - dichloroethane	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethane	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethane	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 : SPNPAH1

JOB NUMBER : 9100.040

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-91-00368

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S001B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 :9100.040

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-91-00369

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S001C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000503

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
SAMPLE ID LAB : METHOD BLANK

UNITS : UG/KG
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	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 :SPNPAH1

JOB NUMBER :9100.040

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-91-00367

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S001A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

00005-0

TEST CODE : SPNPRG1

JOB NUMBER : 9100.040

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NME : 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	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 : 9100.040

Biology 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 3 MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000511

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAUE : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00848

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S016D

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
Trichloroethcnc	ND		1000
Tetrachloroethene	ND		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

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

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000512

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-91-00846

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S016B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
-		-	
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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WEI WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00847

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S016C

PARAMETER	RESULTS	Q	DBT. 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	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethane	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

0000513

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-91-00402

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S015D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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
Tetrachloroethane	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-91-00845

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S016A

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

0000514

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-91-00400

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S015B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

Biology and Environment, Inc.
Analytical Services Center

CLIENT : UE-6000 NASP PEASE I GROUPS A-E

RESULTS IN VET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00401

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S015C

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

0000515

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I CROUPS A-E
RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-00399

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S015A

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

0000516

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-91-00396

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S014A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIHIT</u>
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	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

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 : BE-91-00397

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S014B

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

0004517

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN VET WEIGHT

TEST NAME : PNC PURGAELES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00843

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S013C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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
Tetrachloroethane	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-91-00844

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S013D

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

0000518

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-91-00841

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S013A

PARAMETER	RESULTS	Q	DET. LIMIT
-----	-----	-	-----
Benzene	ND		1000
Toluene	ND		1000
Ethylbcnzene	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
Tetrachloroethane	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-91-00842

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S013B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

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-91-00839

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S012C

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 - dichlorooctane	ND		1000
1,1,1 - Trichlorooctanc	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethenc	ND		1000
Tetrachloroethene	ND		1000

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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN VET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00840

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S012D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
	-----	-	-----
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

0000530

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN VET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00837

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S012A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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	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
Tetrachloroethane	ND		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

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-91-00838

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S012B

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

0000521

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-91-00394

HATRIX : SOLID

SAMPLE ID CLIENT: P12-S011C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
-		-	
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, - Dichloroethenc	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethanc	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tatrachloroethene	ND		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

Ecology "mcEnvironment, 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 : BE-91-00395

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S011D

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

0000522

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-91-00392

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S011A

PARAMETER	RESULTS	Q	DET. LIMIT
-----	-----	-	-----
Benzene	ND		1000
Toluene	ND		1000
Bthylbenzenc	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	ND		1000
Trans-1,2, - Dichloroethcnc	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	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

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 : BE-91-00393

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S011B

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 - dichloromethane	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

0400523

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAUE : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00390

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S010C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
-			
Benzene	ND		1000
Toluene	ND		1000
Ethylbanzenc	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
Tetrachloroethane	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-B

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00391

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S010D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000524

TEST CODE :SPNPAH1

JOB NUMBER :9100.040

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-91-00380

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S007A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>a</u>	<u>DET. LIMIT</u>
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
SAMPLE ID LAB : EE-91-00381
SAMPLE ID CLIENT: P12-S007B

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : 9100.040

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-91-00376

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S006A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : SPNPAE1

JOB NUMBER : 9100.040

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-91-00379

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S006D

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

0000527

TEST CODE : SPNPAE1

JOB NUMBER : 9100.040

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
SAHPLE ID LAB : EE-91-00382
SAHPLE ID CLIENT: P12-S007C

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : 9100.040

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-91-00383

MATRIX : SOLID

SAMPLE ID CLIENT: P12-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

0000528

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/RG**SAMPLE ID LAB : **EE-91-00384**MATRIX : **SOLID**SAMPLE ID CLIENT: **P12-S008A**

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Total as Benzo-a-pyrene	1200	-	1000

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

TEST CODE : SPNPAH1

JOB NUMBER : 9100.040

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-91-00386

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S008C

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 LIHIT

**Biology 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-91-00387

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S008D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000530

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-91-00833

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S009A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : 9100.091

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-91-00834

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S009B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000531

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00835

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S009C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-00836

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S009D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000532

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 : BE-91-00822

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S002B

PARAMETER	RESULTS	Q	DET. LIMIT
-----	-----	-	-----
Total as Bsnzo-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 : 9100.091

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-91-00823

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S002C

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

0000533

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-91-00824

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S002D

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 : 9100.040

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I CROUPS A-B

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC
SAMPLE ID LAB : EE-91-00371
SAMPLE ID CLIENT: P12-S003A

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

010.534

TEST CODE : SPNPAH1

JOB NUMBER : 9100.040

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-91-00372

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S003B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 :9100.040

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-91-00373

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S003C

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

0000535

TEST CODE : SPNPAH1

JOB NUMBER : 9100.040

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

SMPLE ID LAB : EE-91-00374

MATRIX : SOLID

SMPLE ID CLIENT: P12-S003C DUP

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIHIT</u>
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 :9100.040

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
SAMPLE ID LAB : EE-91-00375
SAMPLE ID CLIENT: P12-S003D

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000536

TEST CODE : SPNPAH1

JOB NUMBER : 9100.091

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-91-00825

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S004A

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-91-00826

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S004B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000537

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-91-00827

MATRIX : SOLID

SAHPLE ID CLIENT: P12-S004C

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 : 9100.091

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 : BE-91-00828

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S004D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000530

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN VET WEIGHT

TEST NAME : PNC PAE - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-00829

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S005A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIHIT</u>
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 LIHIT

TEST CODE : SPNPAH1

JOB NUMBER : 9100.091

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-91-00830

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S005B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000530

TEST CODE : SPNPA81

JOB NUMBER : 9100.091

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
SAMPLE ID LAB : EE-91-00831
SAMPLE ID CLIENT: P12-S005C

UNITS : UG/KG
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 DEIECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER : 9100.091

Biology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT

TEST NAME : PNC PAH - LC
SAMPLE ID LAB : EE-91-00832
SAMPLE ID CLIENT: P12-S005D

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000540

TEST CODE :SPNPAH1

JOB NUMBER :9100.040

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-91-00370

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S001D

PARAMETER	RESULTS	Q	DET. LIMIT
-----	-----	-	-----
Total as Benzo-a-pyrene	ND		1000

.....
 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIHATED 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 : BE-91-00821

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S002A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Total as Benzo-a-pyrene	8900	-	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 : 9100.040

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-91-00388

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S010A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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-91-00389

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S010B

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

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00390

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S010C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : 9100.040

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
SAMPLE ID LAB : EE-91-00391
SAMPLE ID CLIENT: P12-S010D

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000543

TEST CODE : SPNPAB1

JOB NUMBER : 9100.040

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST "E" : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00392

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S011A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : 9100.040

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 : BE-91-00393

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S011B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000544

TEST CODE : SPNPAH1

JOB NUMBER : 9100.040

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 : BE-91-00394

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S011C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : 9100.040

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 : RE-91-00395

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S011D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000545

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-91-00837

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S012A

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 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-91-00838

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S012B

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

0000546

TEST CODE : SPNPAH1

JOB NUMBER : 9100.091

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-91-00839

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S012C

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 PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC
SAMPLE ID LAB : BE-91-00840
SAMPLE ID CLIENT: P12-S012D

UNITS : UG/KG
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

0.0547

TEST CODE : SPNPAH1

JOB NUMBER : 9100.091

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-91-00841

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S013A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Total as Benzo-a-pyrene	1300	-	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-91-00842

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S013B

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 PAR - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00843

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S013C

PARAMETER	RESULTS	Q	DET. LIMIT
-----	-----	-	-----
Total as Benzo-a-pyrene	ND		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 :9100.091

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I CROUPS A-E

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-00844

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S013D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000549

TEST CODE :SPNPAH1

JOB NUMBER :9100.040

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-91-00396

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S014A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 LIHIT

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 : BE-9140397

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S014B

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 :9100.040

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAME : PNC PAR - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00398

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S014C

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

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-00399

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S015A

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyrene	3400	-	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-91-00400

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S015B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : 9100.040

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-91-00401

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S015C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000552

TEST CODE :SPNPAH1

JOB NUMBER :9100.040

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

SMPLE ID LAB : EE-91-00402

HATRIX : SOLID

SAMPLE ID CLIENT: P12-S015D

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 VET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-00845

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S016A

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

0000553

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
SAMPLE ID LAB : EE-91-00846
SAMPLE ID CLIENT: P12-S016B

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 PAR - LC

WITS : UG/KG

SAMPLE ID LAB : EE-91-00847

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S016C

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

RESULTS IN WET WEIGHT

TEST NAME : PNC PAR - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00848

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S016D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : SPNPAE1

JOB NUMBER : 9100.040

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

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000535

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 : METHOD BLANK

MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 LIHIT

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9100.091

(ug)

Parameter	B I B Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(A)pyrene	831.03	ND	50	38	76
	841.03	ND	50	45.4	91
	Blank	ND	50	43	86

0000556

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-91-00367

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S001A

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 CODB :SPNPHL1

JOB NUMBER :9100.040

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-91-00368

MATRIX :SOLID

SAMPLE ID CLIENT: P12-S001B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000537

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-91-00369

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S001C

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

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 : HE-91-00370

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S001D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00821

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S002A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Total as Trichlorophenol	25000	-	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 : 9100.091

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-91-00822

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S002B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000539

TEST CODE :SPNPHL1

JOB NUMBER :9100.091

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-91-00823

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S002C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-00824

MATRIX : SOLID

SAMPLE ID CLIENT: P12-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 : SPNPEL1

JOB NUMBER : 9100.040

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-91-00371

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S003A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 :9100.040

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 : BE-91-00372

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S003B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000561

TEST CODE : SPNPHL1

JOB NUMBER : 9100.040

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-91-00373

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S003C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

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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 : SPNPHE1

JOB NUMBER : 9100.040

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-91-00374

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S003C DUP

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000562

TEST CODE : SPNPHL1

JOB NUMBER : 9100.040

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-91-00375

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S003D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 :9100.091

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-91-00825

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S004A

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

0000563

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00826

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S004B

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

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-91-00827

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S004C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000564

TEST CODE : SPNPHL1

JOB NUMBER : 9100.091

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-91-00828

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S004D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 :9100.091

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-91-00829

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S005A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000585

TEST CODE : SPNPHL1

JOB NUMBER : 9100.091

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-91-00830

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S005B

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

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-91-00831

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S005C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000566

TEST CODE :SPNPHL1

JOB NUMBER :9100.091

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-91-00832

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S005D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 3 = 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 CROUPS A-E

RESULTS IN WET UBI—

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00376

MATRIX : SOLID

SAHPLE ID CLIENT: P12-S006A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000567

TEST CODE :SPNPHL1

JOB NUMBER :9100.040

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-91-00377

HATRIX : SOLID

SAMPLE ID CLIENT: P12-S006B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : 9100.040

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-91-00378

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S006C

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

0000568

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00379

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S006D

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 :9100.040

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET UBI —

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00380

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S007A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000560

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-91-00381

MATRIX : SOLID

SAMPLE ID CLIENT: P12-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

TEST CODE :SPNPPL1

JOB NUMBER :9100.040

Ecology and Environment, Inc.
Analytical Services Center

CLIBNT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : HE-91-00382

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S007C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000570

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-91-00383

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S007D

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

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-91-00384

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S008A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000571

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-91-00385

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S008B

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 :9100.040

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 : BE-91-00386

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S008C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000572

TEST CODE : SPNPHL1

JOB NUMBER : 9100.040

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-91-00387

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S008D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 :9100.091

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-91-00833

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S009A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000573

TEST CODE :SPNPHL1

JOB NUMBER :9100.091

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-91-00834

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S009B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Total as Trichlorophenol	ND		2000

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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 UBI —

TEST NAME : PNC PHENOL - LC
SAMPLE ID LAB : EE-91-00835
SAMPLE ID CLIENT: P12-S009C

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000574

TEST CODE :SPNPHL1

JOB NUMBER :9100.091

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-91-00836

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S009D

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 : 9100.040

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET UBI

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00388

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S010A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>a</u>	<u>DET. LIMIT</u>
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

0000575

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-91-00389

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S010B

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 : 9100.040

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 : HE-91-00390

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S010C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000576

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-91-00391

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S010D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : SPNPFL1

JOB NUMBER : 9100.040

Hcology 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 : BE-914392

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S011A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000577

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-91-00393

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S011B

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

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 : BE-91-00394

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S011C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000578

TEST CODE :SPNPHL1

JOB NUMBER :9100.040

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-91-00395

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S011D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 :9100.091

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-91-00837

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S012A

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 : 9100.091

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 —38

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S012B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

000580

TEST CODE :SPNPHL1

JOB NUMBER :9100.091

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-91-00839

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S012C

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 : SPNPEL1

JOB NUMBER : 9100.091

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET UBI—

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00840

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S012D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000581

TEST CODE : SPNPEL1

JOB NUMBER : 9100.091

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

SAUPLE ID LAB : EE-91-00841

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S013A

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 :9100.091

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-91-00842

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S013B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000582

TEST CODE :SPNPHL1

JOB NUMBER :9100.091

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAHE : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00843

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S013C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : 9100.091

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-91-00844

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S013D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

583

TEST CODE : SPNPHL1

JOB NUMBER : 9100.040

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-91-00396

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S014A

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 : 9100.040

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I CROUPS A-B

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00397

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S014B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000584

TEST CODE :SPNPHL1

JOB NUMBER :9100.040

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-91-00398

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S014C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : 9100.040

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-91-00399

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S015A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000585

TEST CODE : SPNPHL1

JOB NUMBER : 9100.040

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-91-00400

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S015B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 :9100.040

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET UBI —

TEST NAME : PNC PHENOL - LC
SAMPLE ID LAB : EE-91-00401
SAMPLE ID CLIENT: P12-S015C

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000530

TEST CODE :SPNPHL1

JOB NUMBER :9100.040

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-91-00402

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S015D

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 :9100.091

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
RESULTS IN VET UBI —

TEST NAME : PNC PHENOL - LC
SAMPLE ID LAB : BE-91-00845
SAMPLE ID CLIENT: P12-S016A

UNITS : UG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
-----	-----	-	-----
Total as Trichlorophenol	2200		2000

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

0000587

TEST CODE :SPNPEL1

JOB NUMBER :9100.091

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-91-00846

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S016B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Total as Trichlorophenol	6800	-	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 : 9100.091

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 : HE-91-00847

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S016C

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

0000538

TEST CODE : SPNPHL1

JOB NUMBER : 9100.091

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UR-6000 NASP PHASE I GROUPS A-E
RESULTS IN VET WEIGHT

TEST NAME : PNC PHENOL - LC
SAMPLE ID LAB : BE-91-00848
SAMPLE ID CLIENT: P12-S016D

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Total as Trichlorophenol	25000	-	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 : 9100.040

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

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000589

TEST CODE :SPNPHL1

JOB NUMBER :9100.091

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

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

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QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIHATED 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
SAMPLE ID LAB : BE-9140367
SAMPLE ID CLIENT: P12-S001A

UNITS : UG/KG
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

0001500

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-91-00368

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S001B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

SAMPLE ID LAB : BE-91-00369

SAMPLE ID CLIENT: P12-S001C

UNITS : UG/KG

MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>a</u>	<u>DET. LIMIT</u>
Endosulfan	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

0000591

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-91-00370

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S001D

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
SAMPLE ID LAB : BE-91-00821
SAMPLE ID CLIENT: P12-S002A

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Heptachlor	IUD		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

0000592

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAHE : PNC PEST./PCB

UNITS : UG/KG

SAHPLE ID LAB : EE-91-00822

MATRIX : SOLID

SAHPLE ID CLIENT: P12-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 = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIHIT

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-91-00823 MATRIX : SOLID
SAMPLE ID CLIENT: P12-S002C

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

0000593

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
SAMPLE ID LAB : EE-91-00824UNITS : UG/KG
MATRIX : SOLID

SAMPLE ID CLIENT: P12-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

TEST CODE :SPNP&P1

JOB NUMBER :9100.040

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
SAMPLE ID LAB : EE-91-00371
SAMPLE ID CLIENT: P12-S003A

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000584

Ecology and Environment, Inc.
Analytical Services CenterCLIENT : UH-6000 NASP PHASE I GROUPS A-E
RESULTS IN WET WEIGHTTEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-00372 MATRIX : SOLID
SAMPLE ID CLIENT: P12-S003B

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 :9100.040

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET UBI——

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : EE-91-00373
SAMPLE ID CLIENT: P12-S003C

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DBT. LIMIT</u>
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

0000595

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-91-00374

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S003C DUP

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 LIHIT

Ecology and Environment, Inc.
Analytical Services Center

CLIBNT : UH-6000 NASP PEASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : HE-91-00379

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S003D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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-91-00825

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S004A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Haptachlor	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 NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : BE-91-00826

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S004B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000597

TEST CODE :SPNP&P1

JOB NUMBER :9100.091

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-91-00827

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S004C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 PRASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
 SAMPLE ID LAB : EE-91-00828
 SAMPLE ID CLIENT: P12-S004D

UNITS : UG/KG
 MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Heptachlor	ND	-	1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDB	ND		1000
Bndrin	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 : EE-91-00829

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S005A

PARAMETER	RESULTS	Q	DET. LIHIT
-----	---	-	-----
Ecptachlor	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-91-00830 MATRIX : SOLID
SAMPLE ID CLIENT: P12-S005B

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, 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-91-00831

MATRIX : SOLID

SAMPLE ID CLIENT: P12-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

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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
SAMPLE ID LAB : EE-91-00376
SAMPLE ID CLIENT: P12-S006A

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Bndrin	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 : **BE-91-00377**MATRIX : **SOLID**SAMPLE ID CLIENT: **P12-S006B**

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Heptachlor	ND	-	1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDB	ND		1000
Bndrin	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

0000001

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-91-00378

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S006C

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 GROWS A-B

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : EE-91-00379
SAMPLE ID CLIENT: P12-S006D

UNITS : UG/KG
MATRIX : SOLID

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, 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-91-00380

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S007A

PARAMETER	RESULTS	Q	DET. LIMIT
-----	-----	-	-----
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
494 - DDT	ND		1000
Dieldrin / 494 - 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

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
SAMPLE ID LAB : EE-91-00381
SAMPLE ID CLIENT: P12-S007B

UNITS : UG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND	-	1000
Lindane	ND		1000
Aldrin	ND		1000
494 - DDT	ND		1000
Dieldrin / 4,4 - DDB	ND		1000
Bndrin	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 : EE-91-00382

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S007C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>a</u>	<u>DET. LIMIT</u>
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 CROUPS A-E
RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : EE-91-00383
SAMPLE ID CLIENT: P12-S007D

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : EE-91-00402

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S015D

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 :9100.091

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
SAMPLE ID LAB : EE-91-00845
SAMPLE ID CLIENT: P12-S016A

UNITS : UG/KG
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

0000685

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PIASE I GROUPS A-E

RESULTS IN VET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00400

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S015B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 :9100.040

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 : BE-91-00401

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S015C

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
Bndrin	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

0000606

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-91-00398

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S014C

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

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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 : SPNP&P1

JOB NUMBER : 9100.040

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-91-00399

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S015A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000607

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-91-00396

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S014A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Haptachlor	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
SAMPLE ID LAB : BE-91-00397
SAMPLE ID CLIENT: P12-S014B

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : EE-91-00843

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S013C

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

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
SAMPLE ID LAB : EE-91-00844
SAMPLE ID CLIENT: P12-S013D

UNITS : UG/KG
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

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-91-00841

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S013A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
-----	-----	-	-----
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 : EE-91-00842

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S013B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDB	ND		1000
Bndrin	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 :9100.091

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-91-00839

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S012C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

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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

SAHPLE ID LAB : EE-91-00840

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S012D

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
Bndrin	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

0000011

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAXE : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : BE-91-00837

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S012A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. UHIT</u>
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 : BE-91-00838

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S012B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Heptachlor	ND	-	1000
Lindane	ND	-	1000
Aldrin	ND	-	1000
4,4 - DDT	ND	-	1000
Dieldrin / 4,4 - DDE	ND	-	1000
Bndrin	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

SAHPLE ID LAB : EE-91-00394

MATRIX : SOLID

SAHPLE ID CLIENT: P12-S011C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 UBI—

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : EE-91-00395
SAMPLE ID CLIENT: P12-S011D

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 494 - 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, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : EE-91-00392
SAMPLE ID CLIENT: P12-S011A

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
-			
Haptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Bndrin	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 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
SAMPLE ID LAB : EE-91-00393
SAMPLE ID CLIENT: P12-S011B

WITS : UG/KG
MATRIX : SOLID

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, 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-91-00390 MATRIX : SOLID
SAMPLE ID CLIENT: P12-S010C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Haptachlor	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

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 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
SAMPLE ID LAB : EE-91-00391
SAMPLE ID CLIENT: P12-S010D

UNITS : UG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
494 - 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, 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-91-00388 MATRIX : SOLID
SAMPLE ID CLIENT: P12-S010A

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 : 9100.040

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-91-00389

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S010B

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

0000616

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-91-00835

MATRIX : SOLID

SAHPLE ID CLIENT: P12-S009C

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

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

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-91-00836

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S009D

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 "E" : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00833

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S009A

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 LIHIT

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
SAMPLE ID LAB : HE-91-00834
SAMPLE ID CLIENT: P12-S009B

UNITS : UG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	DET. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DUT	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

0000018

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-91-00386

MATRIX : SOLID

SAMPLE ID CLIENT: P12-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 WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00387

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S008D

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, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : EE-91-00384
SAMPLE ID CLIENT: P12-S008AUNITS : UG/KG
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	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 :SPNP&P1

JOB NUMBER :9100.040

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-B

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-00385

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S008B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000020

TEST CODE :SPNP&P1

JOB NUMBER :9100.040

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 - 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

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) FOR PENSACOLA SCREENING
(Sample # 00838)

9100.091

(ug/kg)

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
		MS	MS	MS
Lindane	ND	400	390	98
Heptachlor	ND	400	410	102
Aldrin	ND	400	370	92
Dieldrin	ND	1000	1000	100
Endrin	ND	1000	1200	120
4,4'-DDT	ND	1000	1000	100

0000621

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) FOR PENSACOLA SCREENING
(Sample # 00828)

9100.091

(ug/kg)

Compound	Original Result	Amount Added MS	Amount Determined NS	Percent Recovery US
Aroclor 1254	ND	5000	5900	118

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) FOR PENSACOLA SCREENING
(Sample # 00848)

9100.091

(ug/kg)

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
		MS	MS	MS
Aroclor 1254	ND	5000	6000	120

0000622

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
 SAMPLE ID LAB : EE-91-00796 MATRIX: WATER
 SAMPLE ID CLIENT: P12-GW012

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
-----	-----	-	-----	-----
Arsenic	ND		69	UG/L
Chromium	140		10	UG/L
Zinc	360		20	UG/L
Lead	130		40	UG/L
Cadmium	19		5.0	UG/L
Nickel	ND		40	UG/L
Copper	160		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-B
 SAMPLE ID LAB : EE-91-00797 MATRIX: WATER
 SAMPLE ID CLIENT: P12-GW013

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	270		10	UG/L
Zinc	820		20	UG/L
Lead	ND		40	UG/L
Cadmium	89		5.0	UG/L
Nickel	41		40	UG/L
Copper	92		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-91-00798 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW016

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
-----	-----	-	-----	-----
Arsenic	ND		69	UG/L
Chromium	140		10	UG/L
Zinc	330		20	UG/L
Lead	42		40	UG/L
Cadmium	11		5.0	UG/L
Nickel	ND		40	UG/L
Copper	65		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**

9100.089

(ug/L)				
Parameter	E & E Laboratory No. 91- 00794	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	
Chromium		60	66	3.0
Zinc		ND	20	---
Lead		ND	ND	---
Cadmium		7.4	ND	---
Nickel		ND	ND	---
Copper		ND	ND	---
Silver		ND	ND	---

0000665

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
 SAMPLE ID LAB : EE-91-00792 MATRIX: WATER
 SAMPLE ID CLIENT: P12-GW002D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		69	UG/L
Chromium	470		10	UG/L
Zinc	a5		20	UG/L
Lead	ND		40	UG/L
Cadmium	7.2		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-B
 SAMPLE ID LAB :EE-91-00793 MATRIX: WATER
 SAMPLE ID CLIENT: P12-GW004

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		69	UG/L
Chromium	ND		10	UG/L
Zinc	20		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.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
----- 798.05	----- P12-GW016	----- WPNMET1	----- 01/11/91	----- 	----- 01/15/91

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
 SAMPLE ID LAB : EE-91-00791 MATRIX: WATER
 SAMPLE ID CLIENT: P12-GW002

PARAMETER	RESULTS	Q	DET. LIMIT	UNITS
Arsenic	ND		69	UG/L
Chromium	450		10	UG/L
Zinc	53		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

0000027

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
791.01	P12-GW002	VPNPRG1	01/11/91		01/14/91
791.03	P12-GW002	VPNP&P1	01/11/91		01/14/91
		VPNPAH1	01/11/91		01/24/91
		VPNPHL1	01/11/91		01/21/91
791.04	P12-GW002	VPNTPH1	01/11/91		01/16/91
791.05	P12-GW002	VPNMET1	01/11/91		01/15/91
792.01	P12-GW002D	VPNPRG1	01/11/91		01/14/91
792.03	P12-GW002D	VPNP&P1	01/11/91		01/14/91
		VPNPAH1	01/11/91		01/24/91
		VPNPHL1	01/11/91		01/21/91
792.04	P12-GW002D	VPNTPH1	01/11/91		01/16/91
792.05	P12-GW002D	VPNMET1	01/11/91		01/15/91
793.01	P12-GW004	VPNPRG1	01/11/91		01/14/91
793.03	P12-GW004	VPNP&P1	01/11/91		01/14/91
		VPNPAH1	01/11/91		01/24/91
		VPNPHL1	01/11/91		01/21/91
793.04	P12-GW004	VPNTPH1	01/11/91		01/16/91
793.05	P12-GW004	VPNMET1	01/11/91		01/15/91
794.01	P12-GW005	VPNPRG1	01/11/91		01/14/91
794.03	P12-GW005	VPNP&P1	01/11/91		01/14/91
		VPNPAH1	01/11/91		01/24/91
		VPNPHL1	01/11/91		01/21/91
794.04	P12-GW005	VPNTPH1	01/11/91		01/16/91
794.05	P12-GW005	VPNMET1	01/11/91		01/15/91
795.01	P12-GW009	VPNPRG1	01/11/91		01/14/91
795.03	P12-GW009	VPNP&P1	01/11/91		01/14/91
		VPNPAH1	01/11/91		01/24/91
		VPNPHL1	01/11/91		01/21/91
795.04	P12-GW009	VPNTPH1	01/11/91		01/16/91
795.05	P12-GW009	VPNMET1	01/11/91		01/15/91
796.01	P12-GW012	VPNPRG1	01/11/91		01/14/91
796.03	P12-GW012	VPNP&P1	01/11/91		01/14/91
		VPNPAH1	01/11/91		01/24/91
		VPNPHL1	01/11/91		01/21/91
796.04	P12-GW012	VPNTPH1	01/11/91		01/16/91
796.05	P12-GW012	VPNMET1	01/11/91		01/15/91
797.01	P12-GW013	VPNPRG1	01/11/91		01/14/91
797.03	P12-GW013	VPNP&P1	01/11/91		01/14/91
		VPNPAH1	01/11/91		01/24/91
		VPNPHL1	01/11/91		01/21/91
797.04	P12-GW013	VPNTPH1	01/11/91		01/16/91
797.05	P12-GW013	VPNMET1	01/11/91		01/15/91
798.01	P12-GW016	VPNPRG1	01/31/91		01/14/91
798.03	P12-GW016	VPNP&P1	01/11/91		01/14/91
		VPNPAH1	01/11/91		01/24/91
		VPNPHL1	01/11/91		01/21/91
798.01	P12-GW016	VPNTPH1	01/11/91		01/16/91

0000628

M E M O R A N D U M

TO: John Barksdale
FROM: Gary Hahn *[Handwritten Signature]*
DATE: January 30, 1991
SUBJECT: UH-6000 Pensacola Report
REF: 9100.089
CC: Lab File

Attached is the laboratory report of the analysis conducted on eight samples received at the Analytical Services Center on January 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 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

APPENDIX F

**TEMPORARY MONITORING WELL
GROUNDWATER SAMPLING
ANALYTICAL SCREENING RESULTS**

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
 SAMPLE ID LAB :EE-91-00794 MATRIX: WATER
 SAMPLE ID CLIENT: P12-GW005

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		69	UG/L
Chromium	68		10	UG/L
Zinc	ND		20	UG/L
Lead	ND		40	UG/L
Cadmium	7.4		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-B
 SAMPLE ID LAB :EE-91-00795 MATRIX: WATER
 SAMPLE ID CLIENT: P12-GW009

PARAMETER	RESULTS	Q	DEP. LIMIT	UNITS
Arsenic	ND	-	69	UG/L
Chromium	160		10	UG/L
Zinc	140		20	UG/L
Lead	ND		40	UG/L
Cadmium	15		5.0	UG/L
Nickel	ND		40	UG/L
Copper	49		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
TEST NAME : PNC TRPH UNITS : MG/L
PARAMETER : TRPH

<u>SAMPLE ID</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
BE-91-00791 P12-GW002	ND	-	1.0
EE-91-00792 P12-GW002D	ND	-	1.1
EE-91-00793 P12-GW004	ND	-	1.0
EE-91-00794 P12-GW005	ND	-	1.1
EE-91-00795 P12-GW009	ND	-	1.0
EE-91-00796 P12-GW012	ND	-	1.0
EE-91-00797 P12-GW013	ND	-	1.0
EE-91-00798 P12-GW016	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 : 9100.089

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

<u>SAMPLE ID</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000032

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9100.089

(ug/L)

Parameter	E & E Laboratory No. 91- 00764	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	2000	1900	95
Chromium		68	200	270	101
Zinc		ND	500	500	100
Lead		ND	500	320	64
Cadmium		7.4	50	49	83
Nickel		ND	500	460	92
Copper		ND	250	250	100
Silver		ND	50	40	80

Bcology and Environment, Inc.
 Analytical Services Center

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

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>	<u>UNITS</u>
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

TEST CODE :WPNPRG1

JOB NUMBER :9100.089

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-91-00791 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW002

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
Trichloroethane	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 CROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : BE-91-00792 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW002D

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

**QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) FOR PENSACOLA SCREENING
(Sample # 00374)**

9100.040

(ug/kg)

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
		IS	MS	IS
Aroclor 1254	ND	25000	21700	87

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) FOR PENSACOLA SCREENING
(Sample # 00402)

9100.040

(ug/kg)

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
		MS	MS	MS
Aroclor 1254	ND	25000	25500	102

0000635

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-91-00846

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S016B

PARAMETER	RESULTS	Q	DET. LIMIT
-----	-----	-	-----
Haptrchlor	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 :9100.091

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
SAMPLE ID LAB : BE-91-00847
SAMPLE ID CLIENT: P12-S016C

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000636

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-91-00848

MATRIX : SOLID

SAMPLE ID CLIENT: P12-S016D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin / 4,4 - DDE	ND		1000
Bndrin	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 # 00382)**

9100.040

(ug/kg)

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
		MS	MS	MS
Lindane	ND	2000	2200	110
Heptachlor	ND	2000	2200	110
Aldrin	ND	2000	2200	110
Dieldrin	ND	5000	6000	120
Endrin	ND	5000	6000	120
4,4'-DDT	ND	5000	5500	110

0000637

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-91-00793 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW004

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 : 9100.089

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-914794 MATRIX: VATKR
SAMPLE ID CLIENT: P12-GW005

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000038

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-91-00795 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW009

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 : 9100.089

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-B
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EB-91-00796 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW012

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
Tetrachloroethene	ND		10

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

0000639

TEST CODE :WPNPRG1

JOB NUMBER :9100.089

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAHPLE ID LAB : EE-91-00797 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW013

PARAMETER	RESULTS	Q	DET. LIHIT
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 - Dichloroethrne	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 CROUPS A-E
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-00798 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW016

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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	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 : WPNPAH1

JOB NUMBER : 9100.089

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-91-00791 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW002

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000041

TEST CODE : WPNPAH1

JOB NUMBER : 9100.089

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-91-00792 MATRIX: VATER
SAMPLE ID CLIENT: P12-GW002D

PARAMETER	RESULTS	Q	DET. LIMIT
Total as Benzo-a-pyran.	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 : 9100.089

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-91-00793 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW004

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000042

TEST CODE :WPNPAH1

JOB NUMBER :9100.089

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
TEST NAME : PNC PAH - LC UNITS : UG/L
SAHPLE ID LAB : EE-91-00794 MATRIX: WATER
SAHPLE ID CLIENT: P12-GW005

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 r9100.089

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-91-00795 MATRIX: VATBR
SAMPLE ID CLIENT: P12-GW009

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 :9100.089

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-91-00796 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW012

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 t9100.089

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-914797 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW013

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000644

TEST CODE : WPNPAH1

JOB NUMBER : 9100.089

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000.NASP PHASE I CROUPS A-E
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : BE-91-00798 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW016

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 :9100.089

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-91-00791 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW002

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000045

TEST CODE : WPNPHL1

JOB NUMBER : 9100.089

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-91-00792 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW002D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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 : WPNPBL1

JOB NUMBER : 9100.089

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-91-00793 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW004

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000646

TEST CODE :WPNPHL1

JOB NUMBER :9100.089

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-91-00794 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW005

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Total as Trichlorophenol	ND	-	100

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

TEST CODE : WPNPHL1

JOB NUMBER : 9100.089

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-91-00795 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW009

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DBT. LIMIT</u>
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

0000047

TEST CODE :WPNPHE1

JOB NUMBER :9100.089

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-91-00796 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW012

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Total as Trichlorophenol	PRESENT	L	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 r9100.089

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-91-06797 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW013

<u>PARAMETER</u>	<u>RESULTS</u>	<u>a</u>	<u>DET. LIMIT</u>
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

000.018

TEST CODE : WPNPHL1

JOB NUMBER : 9100.089

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PEASE I GROUPS A-E
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAHPLE ID LAB : EE-91-00798 MATRIX: WATER
SAHPLE ID CLIENT: P12-GW016

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
Total as Trichlorophthnol	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

9100.089

(ug)

Parameter	E & E Laboratory No. 90- Blank	Original Value	Amount Added	Amount Determined	Pctcent Recovery
Trichlorophenol		ND	50	35	70

0000049

TEST CODE : WPNP&P1

JOB NUMBER : 9100.089

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 : EE-91-00791 MATRIX: WATER
SAMPLE ID CLIENT: P12-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

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 : EE-91-00792 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW002D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000650

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-91-00793 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW004

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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	PRESENT	L	10

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

TEST CODE : WPNP&P1

JOB NUMBER : 9100.089

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-91-00794

MATRIX: WATER

SAMPLE ID CLIENT: P12-GW005

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000051

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-6000 NASP PHASE I GROUPS A-E
 TEST "E" : PNC PEST./PCB UNITS : UG/L
 SAMPLE ID LAB : EE-91-00795 MATRIX: WATER
 SAMPLE ID CLIENT: P12-GW009

P-----	RESULTS	Q	DET. LIMIT
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Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
494 - DDT	ND		5.0
Dieldrin / 494 - DDB	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
Total PCBS	PRESENT	L	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 : 9100.089

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-91-00796 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW012

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>DET. LIMIT</u>
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

0000652

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-91-00797 MATRIX: WATER
SAMPLE ID CLIENT: P12-GW013

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 : WPNP&P1

JOB NUMBER : 9100.089

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-91-00798

MATRIX: WATER

SAMPLE ID CLIENT: P12-GW016

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

0000653

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF WATER MATRIX SPIKE (MS) FOR PENSACOLA SCREENING
(Sample # 00793)

9100.089

(ug/L)

Compound	Original Result	Amount Added NS	Amount Determined NS	Percent Recovery NS
Lindane	ND	2.0	1.7	85
Heptachlor	ND	2.0	1.6	80
Aldrin	ND	2.0	1.6	80
Dieldrin	ND	5.0	4.8	96
Endrin	ND	5.0	4.3	86
4,4'-DDT	ND	5.0	3.5	70

**QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF WATER MATRIX SPIKE (MS) FOR PENSACOLA SCREENING
(Sample # 00795)**

9100.089

(ug/L)

Compound	Original Result	Amount Added MS	Amount Determined MS	Percent Recovery MS
Aroclor 1254	ND	25	29	116

0000654