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NAS PENSACOLA
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Bechtel

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Southern Division
Naval Facilities Engineering Command
Attn:: Mr. Bill Hill
P.O.Box 190010
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MAR 20 1997

Subject: Bechtel Job No. 22567, Contract No. N62467-93-D-0936
DELIVERY ORDER 0067, SPLP SAMPLING EVENT AT OU-10
TECHNICAL MEMORANDUM, NAS PENSACOLA INSTALLATION RESTORATION
Site/Subject Code: 407/5100

Dear ~~Mr. Hill~~: Bill

This letter serves as the technical memorandum and procedures for the field sampling effort that is to be conducted at Operable Unit 10 (OU 10) at the Naval Air Station, Pensacola, FL. The purpose of the sampling is to conduct a leachability study on the surface soils at three areas within OU 10. Bechtel Environmental, Inc. (BEI) will obtain a total of four samples from Areas B, C, and D at OU 10 in accordance with the draft leachability study design document prepared by EnSafe/Allen & Hoshall (EnSafe), dated February 1997 and clarified by the Technical Direction memo from Mike Herron dated March, 1997.

SAMPLE ANALYTICAL METHOD

Samples will be collected and transported to a Florida approved analytical laboratory. The SW846-Method 1312, Synthetic Precipitation Leachate Procedure (SPLP) extraction process will be performed to determine the mobility of organic constituents of concern. Samples will be analyzed for the parameters of concern (semi-volatile and volatile organic compounds) in accordance with SW846 Method 8260 and Method 8270. The data generated will meet EPA Data Quality Objective (DQO) Level IV criteria and a 7-day turnaround time will be specified.

LOCATION AND DESCRIPTION OF SAMPLES AT OU 10

Samples will be collected and handled in accordance with U.S. Environmental Protection Agency (EPA), Region IV *Environmental Investigations Standard Operating Procedures and Quality Assurance Manual* (May 1996), Florida Department of Environmental Protection (FDEP) *Standard Operating Procedures for Laboratory Operations and Sample Collection Activities* (DERQA-001/92), and Bechtel Navy RAC project procedures. A sampling plan is included as Attachment **A.** Locations and descriptions of the samples are as follows:

- Area B. One sample will be collected and analyzed for semi-volatile organic compounds by Method 1312/8270. The location of the sample is approximate as indicated on Figure 1. The sample will be a composite of soil collected from the surface to groundwater.

- Area C. One sample will be collected and analyzed for semi-volatile organic compounds by Method 1312/8270. The location of the sample is approximate as indicated on Figure 1. The sample will be a composite of soil collected from the surface to groundwater.

- Area D. Two samples will be collected from the approximate location as indicated on Figure 2. One sample will be analyzed for semi-volatile organic compounds by Method 1312/8270 and will be a composite of soil collected from the surface to groundwater. The second sample will be analyzed for volatile organic compounds by Method 1312/8260. The VOA sample will be a discreet sample taken mid-way from surface to groundwater.

LOCATION OF UNDERGROUND UTILITIES

Mr. Ron Joyner of NAS Pensacola will be the Bechtel point of contact for this work. Bechtel will contact Mr. Joyner to request a copy of as-built drawings depicting the existing utilities in each area. As-builts will be reviewed for potential interferences prior to conducting intrusive activities. If deemed necessary, Bechtel will request that the Public Works department conduct a field survey to locate potential buried utilities. In order to avoid contact with potential interferences, the actual locations of samples may be adjusted slightly in the field.

SCHEDULE

This sampling effort is scheduled to take place on Thursday, 27 March, 1997. Bechtel will mobilize one qualified person to the site on the afternoon of 26 March 1997 in order to commence sampling activities the following morning.

SAMPLING EQUIPMENT

Mr. Henry Beiro of EnSafe has agreed to supply sampling equipment for Bechtel's use at the site. Upon completion of sampling activities, the equipment will be decontaminated in accordance with Attachment **A** and returned to EnSafe's storage facility.

If you should have any questions or concerns, please contact me at (423) 220-2167.

Sincerely,

Karen S. Atchley
Project Manager

RTA:dcm:LR1148
Enclosures: As stated

cc: Gena Townsend, EPA
" John Mitchell, FDEP
Ron Joyner, **NAS** Pensacola
Henry Beiro, EnSafe, Allen & Hoshall
Claire Barnett, EnSafe, Allen & Hoshall
Allison Dennen, EnSafe, Allen & Hoshall

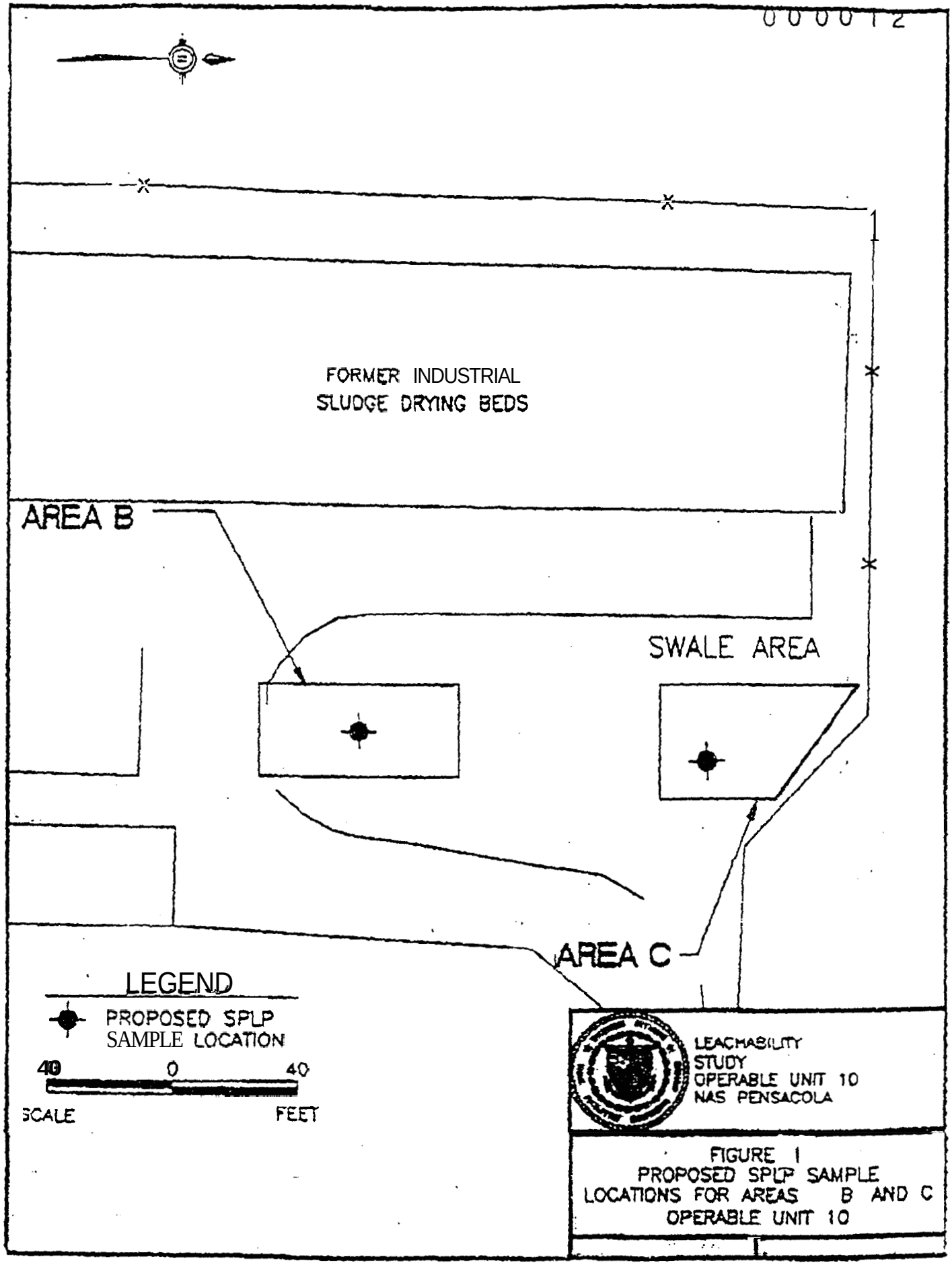
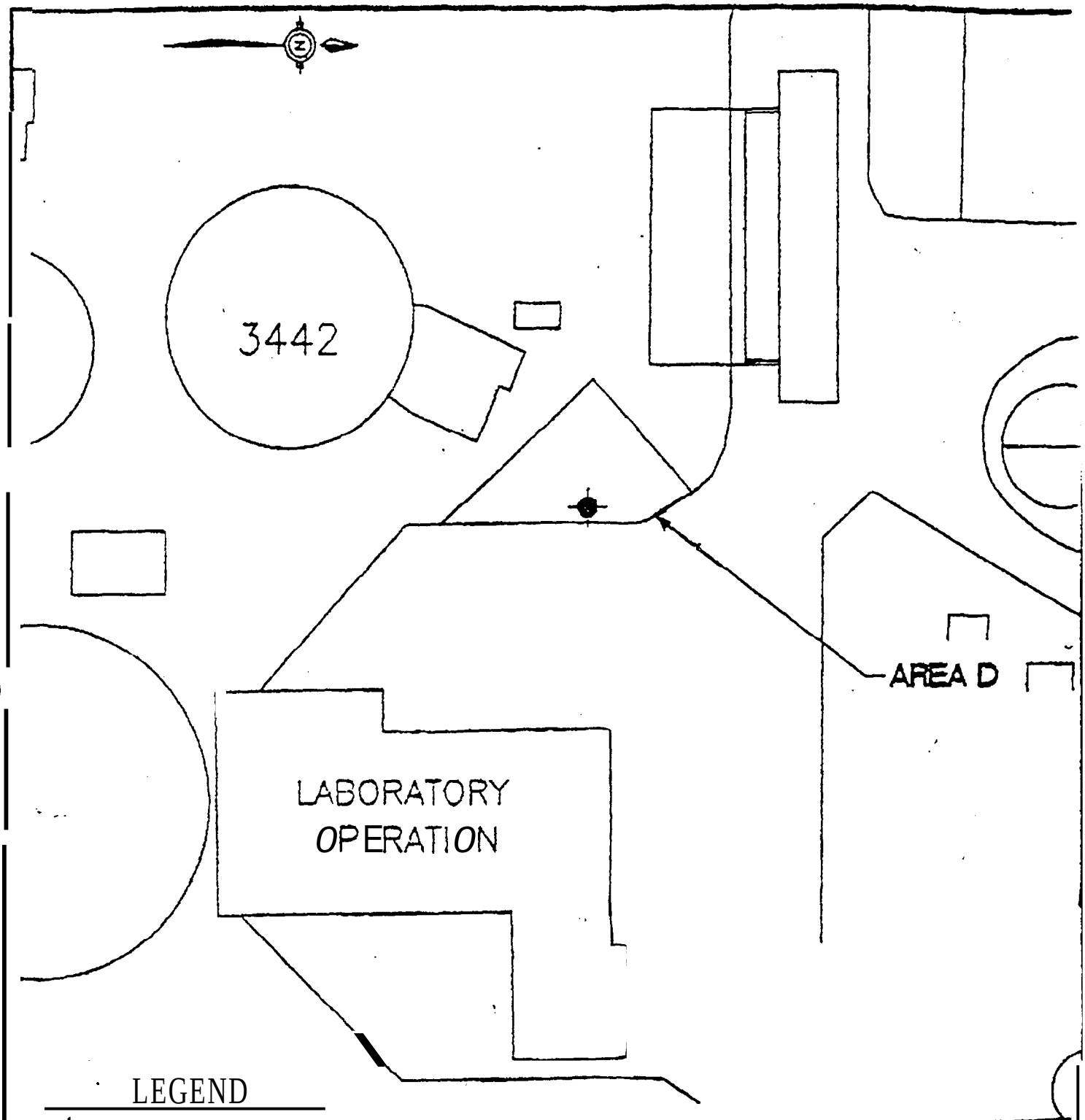


FIGURE 1
PROPOSED SPLP SAMPLE
LOCATIONS FOR AREAS B AND C
OPERABLE UNIT 10



LEGEND

PROPOSED SPLP SAMPLE LOCATION

40. 0 40

SCALE FEET

LEACHABILITY STUDY
OPERABLE UNIT 10
NAS PENSACOLA

FIGURE 2
PROPOSED SPLP SAMPLE LOCATIONS FOR AREA D
OPERABLE UNIT 10

ATTACHMENT A

SAMPLING AND ANALYSIS PLAN
FOR
OU 10, NAS PENSACOLA

1.0 SAMPLING AND ANALYSIS PLAN

This describes the sampling and analysis that is to be performed at OU-10. Sampling methodology and procedures described are based on U.S. Environmental Protection Agency (EPA), Region IV *Environmental Investigations Standard Operating Procedures and Quality Assurance Manual* (May 1996), Florida Department of Environmental Protection (FDEP) *Standard Operating Procedures for Laboratory Operations and Sample Collection Activities* (DERQA-001/92), and Bechtel Navy RAC project procedures.

1.1 SAMPLING PROTOCOL

1.1.1 Decontamination

Decontamination of sampling equipment will be conducted in accordance with Section 4.1, "Decontamination," of FDEP's *Standard Operating Procedures for Laboratory Operations and Sample Collection Activities.*

1.1.2 Collection

Sample collection will be performed in accordance with Section 4, "Sampling Procedures," of FDEP's *Standard Operating Procedures for Laboratory Operations and Sample Collection Activities.*

1.1.3 Sample Identification

Sample identification will be in accordance with NAVY RAC Project Procedure 6003, "Sample Identification and Data Encoding."

1.1.4 Logbooks

Field logbooks will be used for recording all field activities. Entries will include sufficient detail to reconstruct all significant activities. Logbook entries will be completed in accordance with the minimum requirements for recordkeeping included in Section 5.0, "Sample Custody and Documentation," of the FDEP's *Standard Operating Procedures for Laboratory Operations and Sample Collection Activities.*

1.1.5 Chain-of-Custody Records

In order to maintain sample traceability, each sample will be properly documented on a chain-of-custody record. Chain-of-custody documentation will be completed in accordance with Section 5.3, "Custody Documentation Requirements for Field Operations," of the FDEP's *Standard Operating Procedures for Laboratory Operations and Sample Collection Activities.*

1.1.6 Packaging and Holding Times

Sample volume, container, and QC requirements, preservation techniques, and minimum holding times are given in Table 1-1. The Bechtel field representative is responsible for ensuring that a sufficient volume of each sample is collected and placed in the appropriate container with the proper preservation.

The preparation of all sampling containers and general container types, preservatives, and holding times are specified in the FDEP's *Standard Operating Procedures for Laboratory Operations and Sample Collection Activities.* Sample containers will meet all specifications outlined in the above-mentioned procedures.

1.1.7 Data Verification

All waste sampling data will be subject to a 100 percent verification. This includes data generated by field activities or as a result of laboratory analyses. The verification process will begin with manual entry or electronic loading of the data. Printouts of this information from the project database will be compared with the original hard copy of the data and resolved.

Documentation of all verification activities will be performed by the individual performing the verification. This documentation will consist of a signature of the person who performed the verification in the hard copy printouts from the project database. These signed verification printouts will be forwarded to the database manager or designee.

1.2 FIELD SAMPLING AND ANALYSIS

Samplipg protocol for samples identified in this section will be in accordance with Section **4.3.4,** "Soil Sampling Procedures" outlined in FDEP's *Standard Operating Procedures for Laboratory Operations and Sample Collection Activities.* Analysis of these samples will be in accordance with Sections **5** through 10 of FDEP's *Standard Operating Procedures for Laboratory Operations and Sample Collection Activities.*

1.3 Navy RAC Project Procedures

The procedures listed below are the key procedures which the field team must know to properly execute this task. However, this is not the complete list of all project procedures which may be applicable to support functions such as procurement, safety and health, project controls, or administrative services.

Procedure Number	Procedure Name
Navy RAC PP6003	Sample Identification and Data Encoding
Navy RAC PP6004	Field Logbooks
Navy RAC PP6005	Chain-of-Custody Record Procedure
Navy RAC PP6006	Sample Tracking
Navy RAC PP6010	Sample Container, Preservation, and Aliquot Requirements
Navy RAC PP6011	Sample Preservation, Packaging, and Shipment Offsite
Navy RAC PP6024	Decontamination of Field Sampling Equipment
Navy RAC PP6025	Soil Sampling
Navy RAC PP7001	Daily QC Reports
S&H SOP 2.1.10-A	Site Worker Orientation
S&H SOP 2.1.15	Hazardous Communications Program

S&H SOP 2.1.15-B	Lead Protection Requirements
S&H SOP 2.1.16	Job Hazard Analysis
S&H SOP 2.1.17	Hazardous Work Permit
S&H SOP 2.1.17-A	Utility Clearance
S&H SOP 2.1.17-C	Excavations and Trenches
S&H SOP 2.1.17-D	Confined Space Entry
S&H SOP 2.1.20-B	Project Exposure Limits
S&H SOP 2.1.24-A	Fire Protection and Prevention
S&H SOP 2.1.40	Site Control
S&H SOP 2.1.40-A	Vehicle and Heavy Equipment Safety
S&H SOP 2.1.60-A	Personal Protective Equipment

Tab -1
Sampling Requirements for OU 10, NAS Pensacola

le on	Sample Method	Sample Depth	Analytical Method	Tuma-round	Number of Samples	Preservative	Holding Time	Sample Type	Analytes
B	SPLP	Surface to GW	EPA 1312/8270	7-day	1	Cool @ 4°C	14 days	Composite	**SVOC**
C	SPLP	Surface to GW	EPA 131218270	7-day	1	Cool @ 4°C	14 days	Composite	**SVOC**
D	SPLP	Surface to GW	EPA 131218270	7-day	1	Cool @ 4°C	14 days	Composite	**SVOC**
		Mid-point surface to GW	EPA 1312/8260	7-day	1	Cool @ 4°C	14 days	Discreet	**VOC**
	SPLP	N/A	EPA 1312/8270	7-day	1	Cool @ 4°C	14 days	Trip Blank	**SVOC**