

N60200.AR.002929  
NAS CECIL FIELD, FL  
5090.3a

PHASE 8 SAMPLING AND ANALYSIS WORK PLAN FOR POTENTIAL SOURCE OF  
CONTAMINATION 49 SKEET RANGE NAS CECIL FIELD FL

5/7/2001

TETRA TECH NUS INC

**Phase VIII Sampling and Analysis Plan  
PSC 49, Skeet Range  
Naval Air Station Field  
Jacksonville, Florida**

**May 7, 2001**

Phase VIII sampling and analysis of the surface soil is proposed for PSC 49 to delineate horizontal and vertical excavation limits for polycyclic aromatic hydrocarbons (PAHs) and lead at the site. Eighteen soil samples will be collected during this sampling event from the approximate locations identified on Figure A and summarized in Table 1.

The sampling activities and procedures described in this Work Plan will be performed in accordance with the U. S. EPA Region 4 Environmental Investigation Standard Operating Procedures and Quality Assurance Manual (EISOPQAM) and the Base-Wide Generic Work Plan for Naval Air Station (NAS) Cecil Field. Specifically, the Base-Wide Generic Work Plan includes procedures for management of investigation-derived wastes in Volume I and standard operating procedures in the Project Operations Plan in Volume II.

Surface soil sample will be collected as grab samples using plastic, disposable trowels. Because a disposable trowel will be used, decontamination of sampling equipment will not be necessary. Subsurface soil samples will be collected using a hand auger with decontamination in accordance with the Base-Wide Generic Work Plan and the EISOPQAM. The location of the proposed samples will be located by a registered surveyor in the field and marked with a wooden stake or pin flag labeled with the sample identification. The sampling crew will work with the survey crew to establish the best procedures to limit the time the wooden stakes or pin flags are in the area. The sample crew will collect the sample from the location identified.

Personnel protection equipment and other waste trash (e.g. disposable trowels) will not be considered hazardous and will be disposed in a municipal landfill. Such trash will be collected in a plastic bag and disposed in a suitable trash receptacle. Removed soil in excess of sampling volume requirements will be placed back on the ground and the turf replaced or repaired.

Sample handling requirements, the bottleware required, preservation, and holding time requirements for the analysis proposed for this sampling event are as identified in the following table:

<b>Analysis</b>	<b>Analytical Method</b>	<b>Bottleware</b>	<b>Preservation</b>	<b>Holding Time<sup>(1)</sup></b>
PAHs	SW-846 8310	8-oz. glass jar	Cool to 4°C	14 days to extraction; 40 days to analysis
Lead	SW-846 6010B	8-oz. glass jar	Cool to 4°C	180 days to analysis

<sup>1</sup> Holding times are measured from the date/time of sample collection.

**Analytical results will be provided on a 7-day turn around basis.**

The laboratory contracted to do this work is as follows:

ACCUTEST SOUTHEAST  
4405 Vineland Road, Suite C-15  
Orlando, Florida 32881  
Attention: Linda Williams  
(407) 425-6700  
Fax: (407) 425-0707

As agreed upon by the BCT, formal data validation has been eliminated from the installation restoration program at NAS Cecil Field. However, the analytical data packages generated by the analytical laboratory will be reviewed by Tetra Tech NUS personnel to eliminate false positives and false negative results.

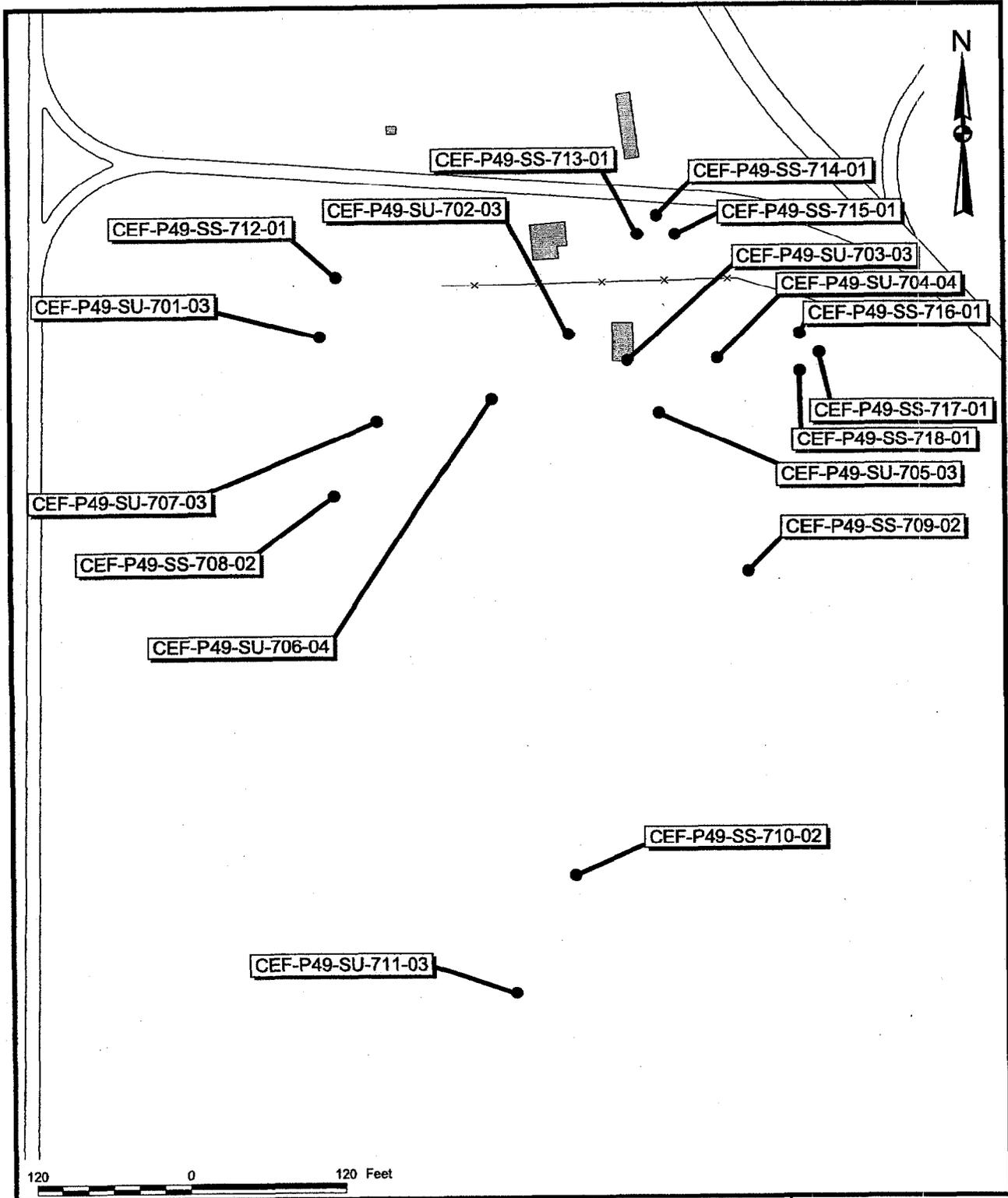
Type of Samples	Frequency	Samples to be Collected
Field Duplicate	1/10 samples/matrix	2
Lab MS/MSD	1/20 samples/matrix	1 <sup>(1)</sup>

1 MS/MSD is a Laboratory QA/QC requirement, separate sample not required, only additional volume.

As agreed upon by the BCT, formal data validation has been eliminated from the installation restoration program at NAS Cecil Field. However, the analytical data packages generated by the analytical laboratory will be reviewed by Tetra Tech NUS personnel to eliminate false positives and false negative results.

**Table 1**  
**Phase VII Sampling and Analysis Work Plan**  
**PSC 49, Skeet Range**

Sample ID CEF-P49-	Location	Analysis	
		PAHs	Lead
SU-701-03	At CEF-P49-SS-501-01/209-02 location	X	
SU-702-03	At CEF-P49-SS-104-01/506-02 location	X	
SU-703-03	At CEF-P49-SS-507-02 location	X	
SU-704-04	At CEF-P49-SS-304-01 location	X	
SU-705-03	At CEF-P49-SS-502-01/508-02 location	X	
SU-706-04	At CEF-P49-SS-006-01/505-02/605-03 location	X	
SU-707-03	At CEF-P49-SS-005-01/503-02 location	X	
SS-708-02	At CEF-P49-SS-105-01 location	X	
SS-709-02	At CEF-P49-SS-042-01 location		X
SS-710-02	At CEF-P49-SS-034-01 location		X
SU-711-03	At CEF-P49-SS-309-01/603-02 location		X
SS-712-01	Approximately 15 feet north of CEF-P49-SS-203-01	X	
SS-713-01	Approximately 15 feet west of CEF-P49-SS-401-01	X	
SS-714-01	Approximately 15 feet north of CEF-P49-SS-401-01 (south of the roadway)	X	
SS-715-01	Approximately 15 feet east of CEF-P49-SS-401-01	X	
SS-716-01	Approximately 15 feet north of CEF-P49-SS-304-01	X	
SS-717-01	Approximately 15 feet east of CEF-P49-SS-304-01	X	
SS-718-01	Approximately 15 feet south of CEF-P49-SS-304-01	X	



DRAWN BY	DATE
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE AS NOTED	



PHASE VIII  
 PROPOSED SOIL SAMPLE LOCATIONS  
 PSC 49,  
 NAVAL AIR STATION CECIL FIELD  
 JACKSONVILLE, FLORIDA

CONTRACT NUMBER 0039	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 1	REV 0