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NAS CECIL FIELD, FL  
5090.3a

PHASE 8 SAMPLING AND ANALYSIS WORK PLAN FOR POTENTIAL SOURCE OF  
CONTAMINATION 25 FORMER TRANSFORMER STORAGE AREA NAS CECIL FIELD FL  
6/7/2000  
TETRA TECH NUS INC

**Phase VIII Sampling and Analysis Work Plan  
PSC 25, Former Transformer Storage Area  
Naval Air Station Cecil Field  
Jacksonville, Florida**

**June 7, 2000**

Phase VIII sampling and analysis is proposed for PSC 25, Former Transformer Storage Area, to address exceedances of leachability criteria. Concentrations of dieldrin and PCBs exceed leachability criteria in samples from the site. A total of 29 soil samples from 18 locations will be collected during Phase VIII from the approximate locations identified on Figure A and described in Table 1. At locations where samples are proposed at 1 to 2 feet and 2 to 3 feet below ground surface, the shallower sample will be submitted for analysis while the deeper sample will be held pending receipt of analytical results from the shallow sample.

In addition, three samples will be collected and analyzed via the Synthetic Precipitation Leaching Procedure (SPLP) for pesticides in an attempt to determine a site-specific leachability value for dieldrin. These samples will be collected at previous locations with high, intermediate, and low concentrations of dieldrin.

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.

The surface soil samples will be collected as grab samples using plastic, disposable trowels. Because disposable trowels 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.

Sampling 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>
Pesticides	SW-846 8081A	3 8-oz. glass jars	Cool to 4°C	14 days to extraction; 40 days to analysis
SPLP Pesticides	SW-846 1312/8081A	8-oz. glass jar	Cool to 4°C	14 days to leach preparation, 14 days to analysis
PCBs	SW-846 8082	8-oz. glass jar	Cool to 4°C	14 days to extraction; 40 days to analysis

1 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, the collection of rinsate and trip blanks has been eliminated at NAS Cecil Field. In addition, field blanks will not be collected during this sampling program because there will be minimal decontamination of sampling equipment. In accordance with these changes, the following table summarizes the frequency and type of field Quality Assurance/Quality Control (QA/QC) samples to be collected for this sampling program.

Type of Samples	Frequency	Samples to be Collected
Field Duplicate	1/10 sample/matrix	3
Lab MS/MSD	1/20 samples	1 <sup>(1)</sup>

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

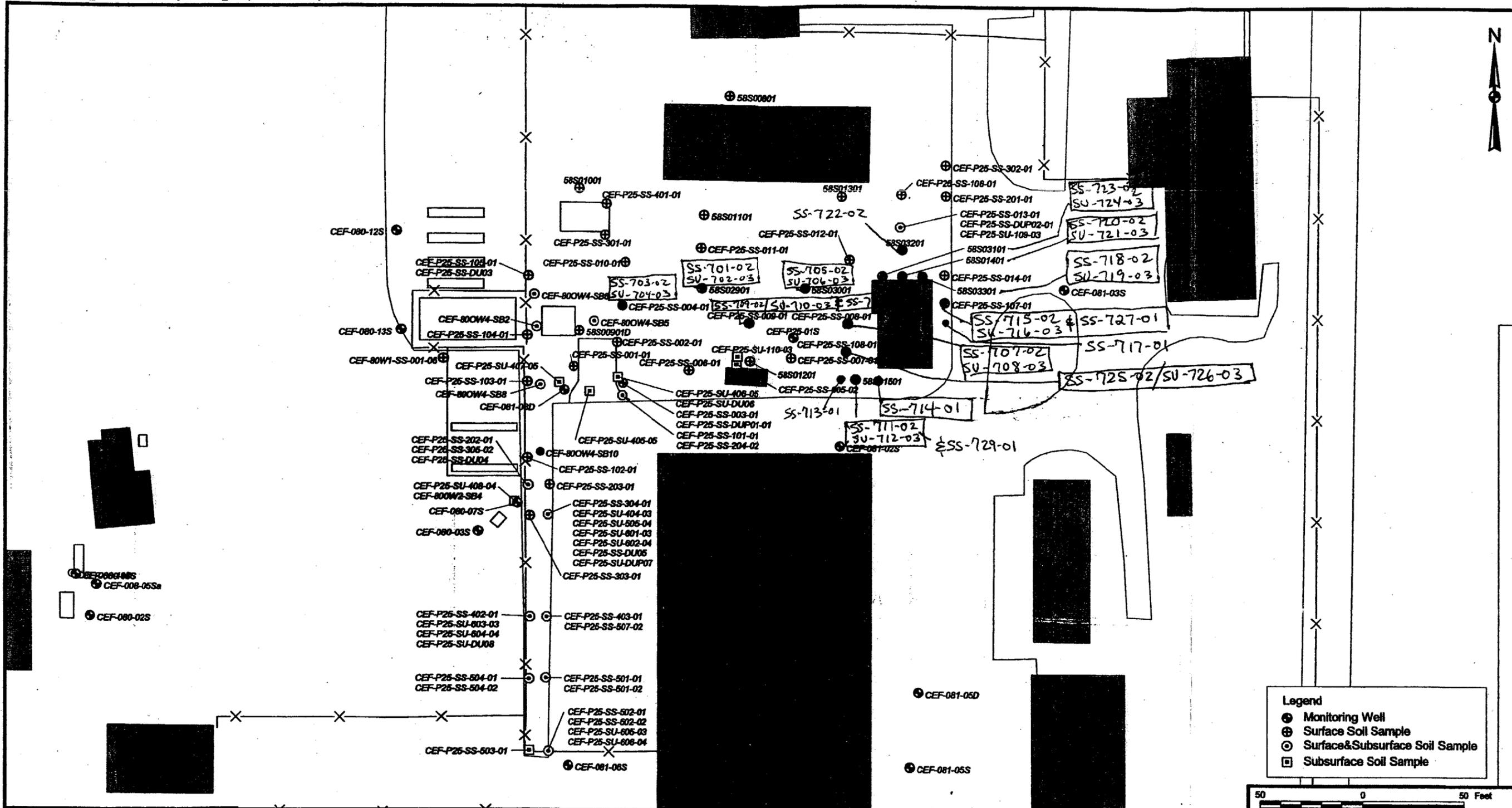
As agreed upon by the BCT, formal data validation has been eliminated from the installation restoration program at NAS Cecil Field. However, the analytical data packages generated by the analytical laboratory will be reviewed by Tetra Tech NUS personnel to eliminate false positives and false negative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

Table 1

Phase VIII Sampling and Analysis  
PSC 25, Former Transformer Storage Area

Sample ID CEF-P25-	Location	Sample Depth			Analysis		
		0 to 1'	1 to 2'	2 to 3'	PCBs	Pesticides	SPLP Pesticides
SS-701-02	At 58S02901 location		X			X	
SU-702-03	At 58S02901 location			X		X	
SS-703-02	At CEF-P25-SS-004-01 location		X			X	
SU-704-03	At CEF-P25-SS-004-01 location			X		X	
SS-705-02	At 58S03001 location		X			X	
SU-706-03	At 58S03001 location			X		X	
SS-707-02	At CEF-P25-SS-008-01 location		X			X	
SU-708-03	At CEF-P25-SS-008-01 location			X		X	
SS-709-02	At CEF-P25-SS-009-01 location		X			X	
SU-710-03	At CEF-P25-SS-009-01 location			X		X	
SS-711-02	At 58S01501 location		X			X	
SU-712-03	At 58S01501 location			X		X	
SS-713-01	15 feet west of 58S01501	X				X	
SS-714-01	15 feet east of 58S01501	X				X	
SS-715-02	At CEF-P25-SS-107-01 location		X			X	
SU-716-03	At CEF-P25-SS-107-01 location			X		X	
SS-717-01	15 feet south of CEF-P25-SS-107-01	X			X	X	
SS-718-02	At 58S03301 location		X		X	X	
SU-719-03	At 58S03301 location			X	X	X	
SS-720-02	At 58S01401 location		X			X	
SU-721-03	At 58S01401 location			X		X	
SS-722-02	At 58S03201 location		X			X	
SS-723-02	At 58S03101 location		X			X	
SU-724-03	At 58S03101 location			X		X	
SS-725-02	At CEF-P25-SS-108-01 location		X		X		
SU-726-03	At CEF-P25-SS-108-01 location			X	X		
SS-727-01	At CEF-P25-SS-107-01 location	X					X
SS-728-01	At CEF-P25-SS-009-01 location	X					X
SS-729-01	At 58S01501 location	X					X

\*Shaded samples will be collected and held pending results of shallower samples from same locations.



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MJJ	DATE 15May00
CHECKED BY	DATE
COST/SCHED-AREA	
SCALE AS NOTED	



**PHASE VIII**  
**SAMPLE LOCATIONS MAP**  
 PSC 25, FORMER TRANSFORMER STORAGE AREA  
 NAVAL AIR STATION CECIL FIELD  
 JACKSONVILLE, FLORIDA

CONTRACT NO. 0039	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 2-3	REV. 0

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