

N60200.AR.003427  
NAS CECIL FIELD, FL  
5090.3a

PHASE 10 SAMPLING AND ANALYSIS WORK PLAN REVISION 1 FOR FORMER RAILROAD  
BED BUILDING 635 LOADING DOCK AREA NAS CECIL FIELD FL  
8/26/2002  
TETRA TECH NUS INC

**Phase X Sampling and Analysis Work Plan, Rev 1  
Former Railroad Bed - Building 635 Loading Dock Area  
Naval Air Station Cecil Field  
Jacksonville, Florida**

August 26, 2002

Phase X sampling and analysis of groundwater is proposed for Building 635 (loading dock in Yellow Water Weapons Area) as shown in Figure A. Previous soil sampling identified polynuclear aromatic hydrocarbons (PAHs) and total recoverable petroleum hydrocarbons (TRPH) in soil samples exceeding the Florida Department of Environmental Protection (FDEP) leachability soil cleanup criteria.

During Phase X, one groundwater sample will be collected using low-flow methods from the new monitoring well (CEF-635-01S) as shown on Figure A and described 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.

The groundwater monitoring well will be installed in accordance with the EISPOQAM and the Base-Wide Generic Work Plan for NAS Cecil Field, except that split-spoon samples will not be collected. The monitoring well will be screened from approximately 5 to 15 feet bgs with 10-foot long 0.010-inch slotted screen. Well construction materials will consist of certified-clean 2-inch inside diameter, flush-threaded, polyvinyl chloride (PVC) screen and riser. A registered land surveyor will survey the completed monitoring well.

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.

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>
<b>GROUNDWATER</b>				
PAHs	SW-846 8310	1 1-liter amber glass; Teflon-lined cap	Cool to 4°C	7 days to extraction; 40 days to analysis
TRPH	FL-PRO	40 ml HDPE	Cool to 4°C	14 days to analysis

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

Analytical results will be reported 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: Sue Bell  
(407) 425-6700  
Fax: (407) 425-0707

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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.

<b>Type of Samples</b>	<b>Frequency</b>	<b>Samples to be Collected</b>
Field Duplicate	1/10 sample/matrix	1 groundwater
Lab MS/MSD	1/20 samples/matrix	1 groundwater

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.

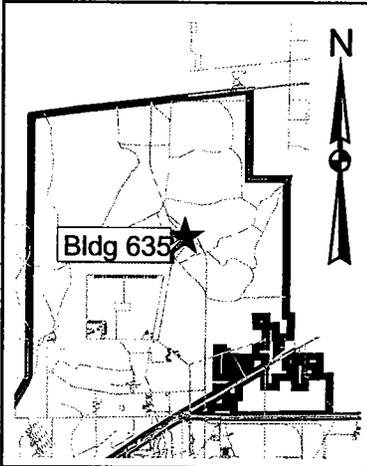
**Table 1**

**Phase X Sampling and Analysis  
Former Railroad Bed - Building 635 Loading Dock Area**

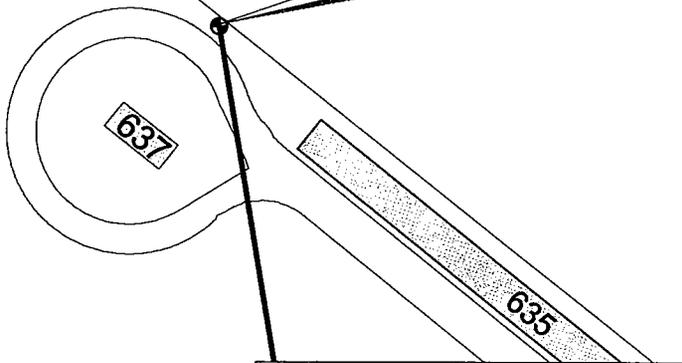
<b>Sample ID</b> CEF-635-	<b>Location</b>	<b>Analysis</b>	
		<b>PAHs</b>	<b>TRPH</b>
<b>GROUNDWATER</b>			
GW-01S-01	Approximately 75 feet northwest of loading dock known as Building 635 (CEF-635-01S)	X	X

**Legend**

- Proposed Monitoring Well Location
- Sample ID
- CEF-610-SS-015
- Semivolatile Organics (ug/kg)
- BENZO(A) PYRENE 548 [100\*/8000\*]
- FDEP Industrial or Leachability SCTL
- [\* Indicates criteria exceeded]
- Detection Concentration
- Parameter



**Monitoring Well Location**



CEF-635-SS-002-01		
Semivolatiles (ug/kg)		
BENZO(A) ANTHRACENE	16800	[5000*/3200*]
BENZO(A) PYRENE	17800	[500*/8000*]
BENZO(B) FLUORANTHENE	25100	[4800*/10000*]
Petroleum Hydrocarbon (mg/kg)		
TPH 733	[2500/340*]	

CEF-635-SS-111-01		
Semivolatiles (ug/kg)		
BENZO(A) ANTHRACENE	19800 J/8250 J	[5000*/3200*]
BENZO(A) PYRENE	22900 J/9850 J	[500*/8000*]
BENZO(B) FLUORANTHENE	34300 J /5570 J	[4800*/10000*]

100 0 100 Feet

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



MONITORING WELL LOCATION  
FORMER RAILROAD BED - BUILDING 635  
NAVAL AIR STATION CECIL FIELD  
JACKSONVILLE, FLORIDA

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