

N60200.AR.002170
NAS CECIL FIELD, FL
5090.3a

PHASE 4 SAMPLING AND ANALYSIS WORK PLAN FOR POTENTIAL SOURCE OF
CONTAMINATION 32 DEFENSE REUSE AND MARKETING OFFICE ASPHALT STORAGE
YARD NAS CECIL FIELD FL
11/5/1999
TETRA TECH NUS INC

**Phase IV Sampling and Analysis Work Plan
PSC 32, DRMO Asphalt Storage Yard
Naval Air Station Cecil Field
Jacksonville, Florida**

November 5, 1999

Phase IV sampling and analysis of soils is proposed for PSC 32, DRMO Asphalt Storage Yard, as shown in Figure A. Sampling and analysis will be conducted to further delineate polycyclic aromatic hydrocarbon (PAHs) contamination identified during previous sampling activities. A total of 5 soil samples will be collected from approximate locations shown on Figure A as 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 surface soil samples will be collected as grab samples using plastic, disposable trowels. Because disposable trowels will be used, decontamination of this sampling equipment for surface soil sampling will not be necessary. The subsurface soil sample will be collected using a hand auger with decontamination in accordance with the Base-Wide Generic Work Plan and the EISOPQAM. The locations shall be located in the field by a registered surveyor 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. If the locations of the sampling points are moved, based on field conditions, then the location where the sample was collected will be re-surveyed.

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:

Analysis	Analytical Method	Bottleware	Preservation	Holding Time⁽¹⁾
PAHs	SW-846 8310	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 14-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: Susan Gaudios
(407) 425-5700
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 no 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	1
Lab MS/MSD	1/20 samples/matrix	1 ⁽¹⁾

(1) MS/MSD samples are a laboratory QA/QC requirement. Separate samples are not required, only additional volume (2X),

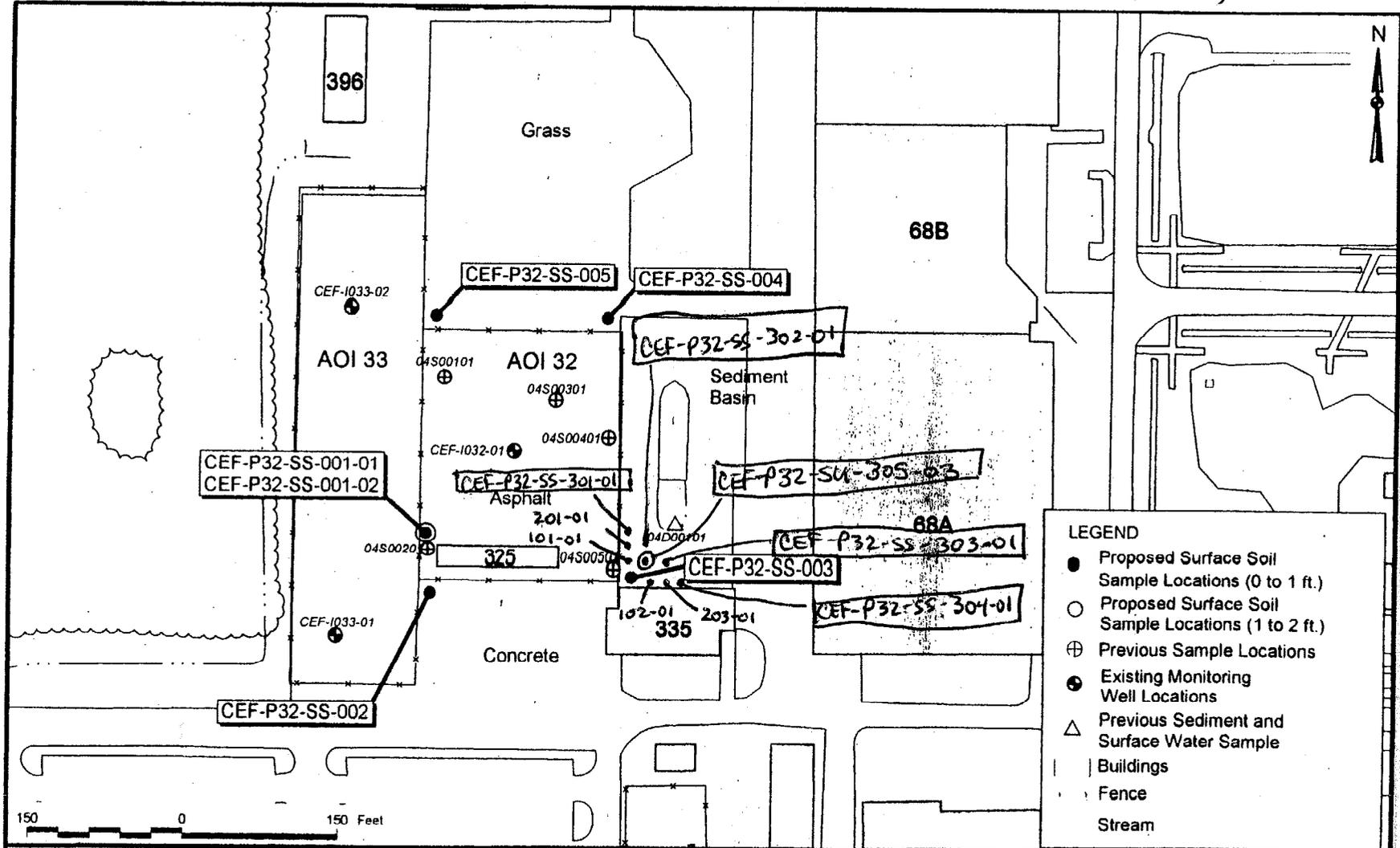
Table 1

**Phase IV Sampling and Analysis
PSC 32, DRMO Asphalt Storage Yard**

Sample ID	Location	Sample Depth	Analysis
			PAHs 8310
CEF-P32-			
SS-301-01	15 feet due north of CEF-P32-SS-201-01 location	0 to 1'	X
SS-302-01	15 feet due north of CEF-P32-SS-202-01 location	0 to 1'	X
SS-303-01	15 feet due east of CEF-P32-SS-202-01 location	0 to 1'	X
SS-304-01	15 feet east of CEF-P32-SS-203-01 location	0 to 1'	X
SU-305-03	At CEF-P32-SS-202-01-01 location	2 to 3'	X

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LEGEND

- Proposed Surface Soil Sample Locations (0 to 1 ft.)
- Proposed Surface Soil Sample Locations (1 to 2 ft.)
- ⊕ Previous Sample Locations
- Existing Monitoring Well Locations
- △ Previous Sediment and Surface Water Sample
- | Buildings
- Fence
- ~ Stream

DRAWN BY YLI	DATE 04/06/99
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE AS NOTED	



PHASE IV
 PROPOSED SOIL SAMPLE LOCATIONS
 PSC 32, DRMO ASPHALT STORAGE YARD
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA

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