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NAS CECIL FIELD, FL
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PHASE 6 SAMPLING AND ANALYSIS WORK PLAN FOR POTENTIAL SOURCE OF
CONTAMINATION 39 FLIGHT LINE OUTFALLS NAS CECIL FIELD FL
3/7/2000
TETRA TECH NUS INC

**Phase VI Sampling and Analysis Work Plan
PSC 39, Flightline Outfalls
Naval Air Station Cecil Field
Jacksonville, Florida**

March 7, 2000

Phase VI sampling and analysis of sediment is proposed for PSC 39, Flightline Outfalls, as shown in Figure A. Sampling and analysis will be conducted to further delineate polychlorinated biphenyls (PCB) contamination identified during previous sampling activities. Two deep sediment samples and two surface soil samples from the banks near the water line will be collected from outfall No. 11 drainageway along the east-west runway as shown in Figure A. The samples will be analyzed for PCBs as specified in the Table 1.

Special Instructions

No. 1

The deep sediment samples will be collected from an interval of 1 to 2 feet below ground surface. During sample collection, efforts must be made to prevent water and sediment from above from entering the sample. The bank samples (0 to 1 foot interval) are to be collected from the bank slopes and not from the bottom of the ditch, about 6 inches to 12 inches above the current water level in the ditch.

No. 2

This sampling effort is to define the limits for contaminated sediment removal. The limit of excavation is expected to extend 300 feet down from the drain headwall. To provide additional information on the site conditions, photographs of the ditch are to be taken every 50 feet. Photos are to be taken viewing downstream and down the line of the ditch so that the ditch width and depth are shown. Pictures from other angles and direction are to be taken as needed to document the site conditions. Each view should include a staff or object to provide an example of scale. If vegetation and topography restrict the view, take photographs at more frequent intervals. Record the photograph locations in the field logbook.

No. 3

Field notes should be taken to describe field conditions about 20 feet out on either side of the ditch for construction vehicle access considerations. The notes should include vegetation, topography, and how solid the ground is. Photos should also be taken of these areas.

Because of the proximity to active runways and taxiways, this sampling must be coordinated with NAS Cecil Field Air Operations. Ramp Safety requirements must be followed. At least one field crew member shall have ramp training.

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 sediment samples will be collected as grab samples. The sampling equipment used will be disposable or equipment that can be easily decontaminated. Since disposable equipment is preferable for this sampling activity, decontamination of sampling equipment will not be required. The sample locations can be measured in the field using a tape, then surveyed at a later time. The location of the samples will be located by a registered surveyor in the field and marked with a wooden stake labeled with the sample identification. Also, attach survey tape to a tree nearby the sample locations to assist in finding them in the future. 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 sample materials in excess of sampling volume requirements will be placed back in the area where the sample was obtained.

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:

Analysis	Analytical Method	Bottleware	Preservation	Holding Time ⁽¹⁾
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 **3-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 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	1
Lab MS/MSD	1/20 samples/matrix	1 ⁽¹⁾

1 MS/MSD is a Laboratory QA/QC requirement, separate sample not required, only additional volume. Surface water sample requires twice the sample volume identified for MS/MSD analysis

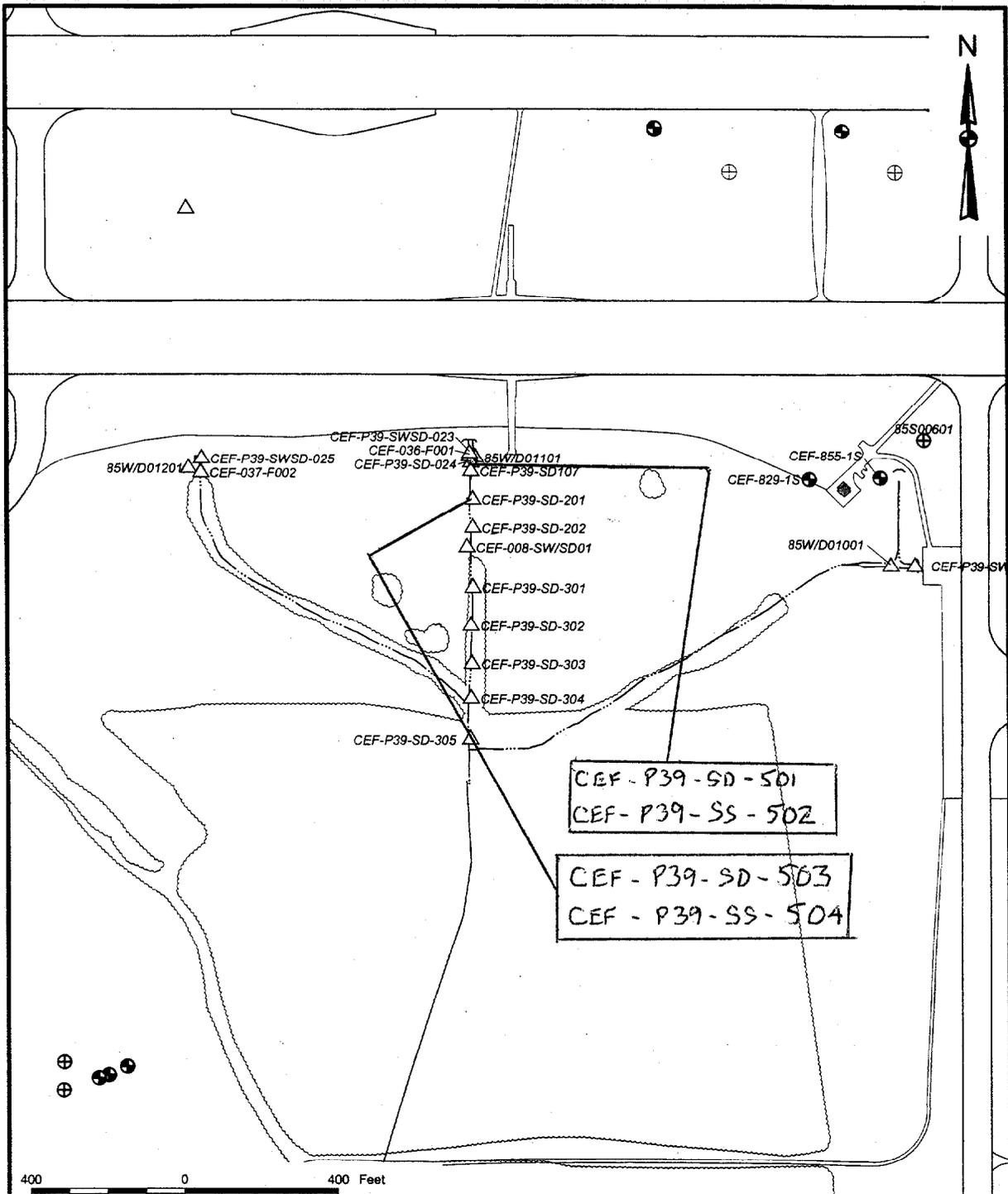
As agreed upon by the BCT, formal data validation has been eliminated from the installation restoration program at NAS Cecil Field. However, the analytical data packages generated by the analytical laboratory will be reviewed by Tetra Tech NUS personnel to eliminate false positives and false negative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

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TABLE 1

**PHASE VI SAMPLING AND ANALYSIS
PSC 39, FLIGHTLINE OUTFALLS**

Sample ID	Location	Analysis
		PCBs
CEF-P39-SD-501	"Deep" sediment sample, from depth of 1 to 2 feet bgs, at sample location CEF-P39-SD-024, about 50 feet from Outfall 11 headwall.	X
CEF-P39-SS-502	Surface soil sample (0 to 1' interval) from east bank 6 to 12 inches above water level next to sample location CEF-P39-SD-024, about 50 feet from Outfall 11 headwall.	X
CEF-P39-SD-503	"Deep" sediment sample, from depth of 1 to 2 feet bgs, at sample location CEF-P39-SD-201, about 200 feet from Outfall 11 headwall.	X
CEF-P39-SS-504	Surface soil sample (0 to 1' interval) from west bank 6 to 12 inches above water level next to sample location CEF-P39-SD-201, about 200 feet from Outfall 11 headwall.	X



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



OUTFALL 11 - SAMPLE LOCATION
 PSC 39, MB-18 FLIGHTLINE OUTFALLS
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA

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