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NAS CECIL FIELD, FL
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PHASE 3 SAMPLING AND ANALYSIS WORK PLAN FOR FORMER RAILROAD BED
FORMER FUEL DEPOT AREA NAS CECIL FIELD FL
9/12/2000
TETRA TECH NUS INC

**Phase III Sampling and Analysis Work Plan
Former Railroad Bed – Former Fuel Depot Area
Naval Air Station Cecil Field
Jacksonville, Florida**

September 12, 2000

Additional sampling and analysis of surface and subsurface soils is proposed for the former railroad bed in the area of the former fuel depot (north of the South Fuel Farm), as shown in Figure A. According to interviews with former railroad employees, liquid fuels were offloaded from railroad cars in this area. A total of 4 samples including 2 surface and 2 subsurface soil samples will be collected during this investigation from the approximate locations identified 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 surface soil samples will be collected as grab samples using plastic, disposable trowels. 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 soil sample locations shall be marked with a wooden stake or pin flag labeled with the sample identification and subsequently located by a registered land surveyor. The sampling crew will work with the survey crew to establish the best procedures to limit the time between the marking of the location and collecting the sample.

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 from the surface soil sampling 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 reported 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: 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	1
Lab MS/MSD	1/20 samples/matrix	1 ⁽¹⁾

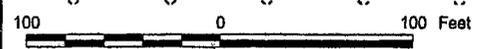
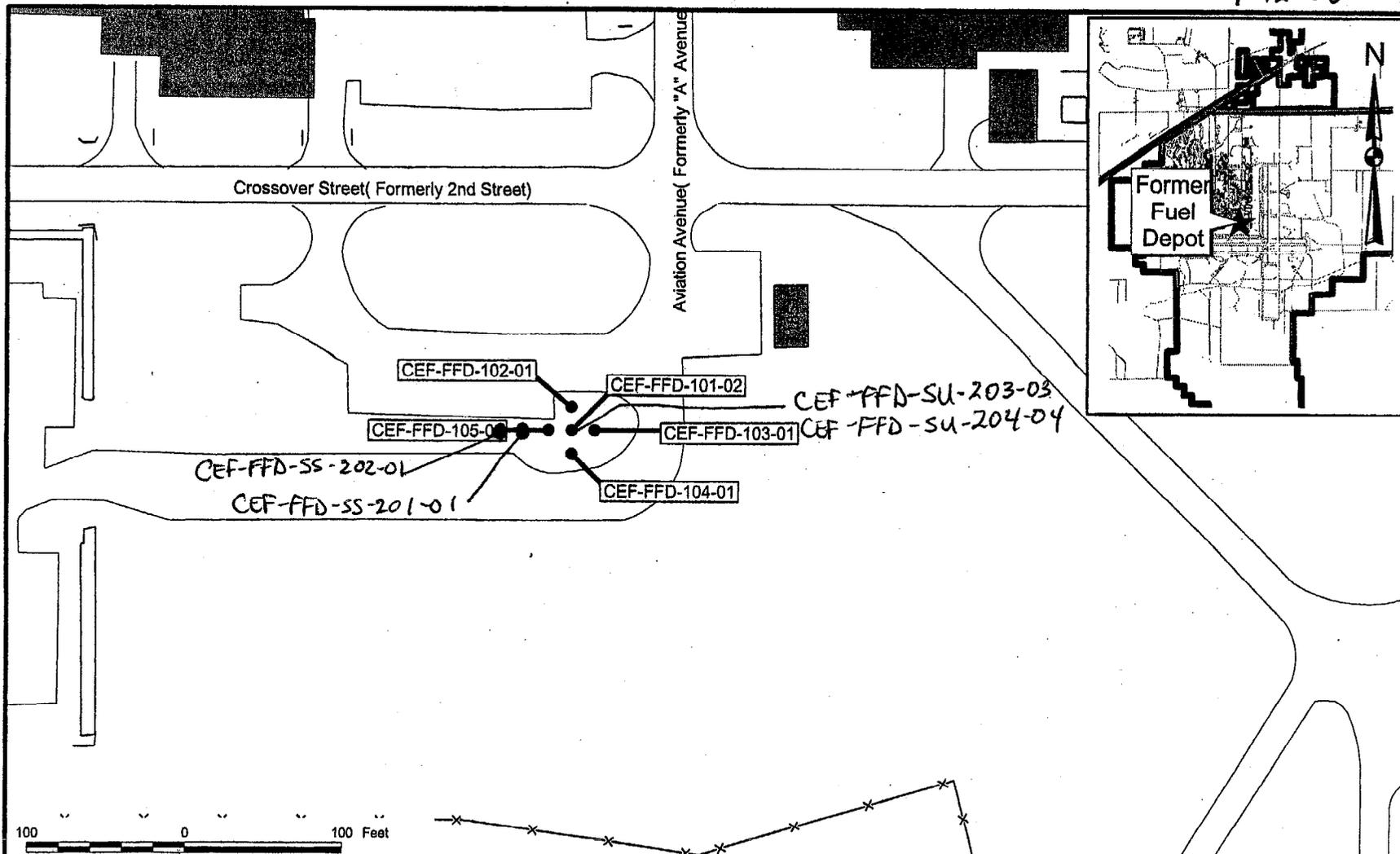
(1) MS/MSD is a laboratory QA/QC requirement, separate samples not required, only additional volume (2x).

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
Sampling and Analysis
Former Railroad Bed - Former Fuel Depot Area

Sample ID CEF-FFD-	Location	Analysis
		PAHs
SS-201-01	15 feet west of CEF-FFD-SS-105-01 location at center line of railroad ballast (0 - 1')	X
SS-202-01	30 feet west of CEF-FFD-SS-105-01 location at center line of railroad ballast (0 - 1')	X
SS-203-03	At CEF-FFD-SS-001-01/SS-101-02 location (2 - 3')	X
SU-204-04	At CEF-FFD-SS-001-01/SS-101-02 location (3 - 4')	X

9-12-00



DRAWN BY MJJ	DATE 01Jun00	 <p>PHASE III PROPOSED SAMPLE LOCATIONS PHASE II - SAMPLING AND ANALYSIS WORKPLAN FORMER RAILROAD BED - FORMER FUEL DEPOT NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA</p>	CONTRACT NUMBER 0039	
CHECKED BY	DATE		APPROVED BY	DATE
COST/SCHEDULE-AREA			APPROVED BY	DATE
SCALE AS NOTED			DRAWING NO. FIGURE 1	REV 0