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NAS CECIL FIELD, FL
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PHASE 3 SAMPLING AND ANALYSIS WORK PLAN FOR POTENTIAL SOURCE OF CONTAMINATION 40 A-4 ABANDONED WASTEWATER TREATMENT PLANT NAS CECIL FIELD FL

9/28/1999

TETRA TECH NUS INC

Phase III Sampling and Analysis Work Plan
PSC 40, A-4 Abandoned Wastewater Treatment Plant
Naval Air Station Cecil Field
Jacksonville, Florida

September 28, 1999

Phase III sampling and analysis of the surface soils is proposed for PSC 40, Abandoned Wastewater Treatment Plant as shown in Figure A. During previous sampling activities, inorganics including antimony, cadmium, chromium, lead, manganese, silver, and vanadium, were detected in soil samples at concentrations exceeding Florida Department of Environmental Protection (FDEP) residential soil cleanup criteria. The objective of Phase III sampling is to collect surface soil samples to complete horizontal delineation of the extent of contamination. A total of 2 surface soil samples will be collected during Phase III activities from the approximate locations identified on Figure A and described in Table 1.

Additional sediment sampling, if required, will be conducted under a separate work plan.

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 at a depth of 0 to 1 foot below land surface (bls) using plastic, disposable trowels. The proposed surface soil sample locations shall be located by a registered land 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 between the marking 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]
Inorganics (Ba Cr, Pb, V)	SW-846 6010B	8-oz. glass jar	Cool to 4^0 C	180 days to analysis

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

Analytical results will be reported 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 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 samples are a laboratory QA/QC requirement. Separate samples are 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
PSC 40, Abandoned Wastewater Treatment Plant

Sample ID CEF-P40-	Location	Analysis			
		Barium	Chromium	Lead	Vanadium
SS-201-01	Midway between CEF-P40-SS-005 and SS-006 (0 to 1 feet)	X	X	X	X
SS-202-01	Midway between CEF-P40-SS-005 and SS-002 (0 to 1 feet)	X	X	X	X

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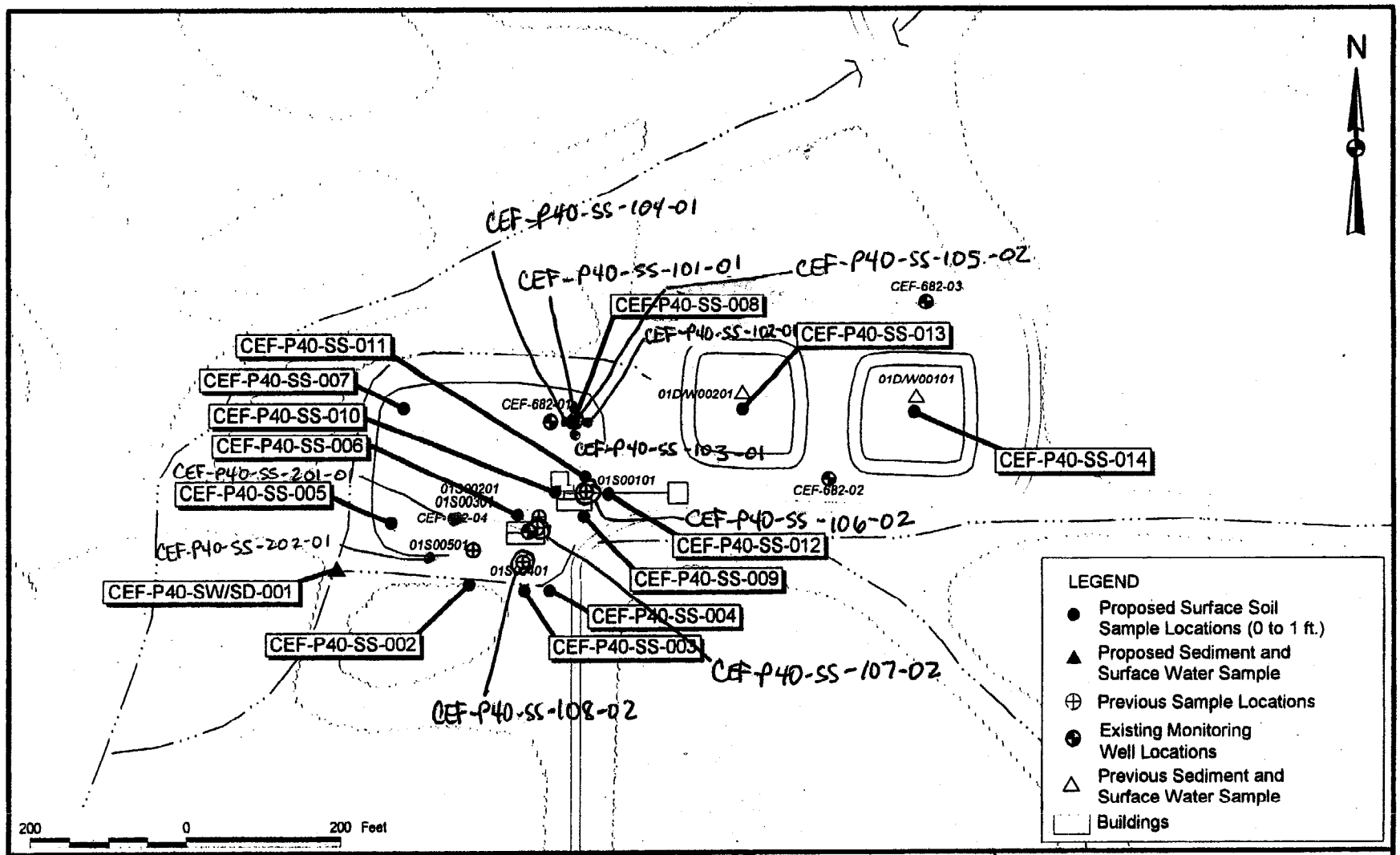

DRAWN BY / DATE		PHASE III PROPOSED SAMPLE LOCATIONS PSC 40, ABANDONED WASTEWATER TREATMENT PLANT NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0039
CHECKED BY / DATE			APPROVED BY / DATE
COST/SCHEDULE-AREA			APPROVED BY / DATE
SCALE AS NOTED			DRAWING NO. FIGURE A / REV 0

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