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NAS CECIL FIELD
5090.3a

PHASE 10 SAMPLING AND ANALYSIS WORK PLAN FOR POTENTIAL SOURCE OF CONTAMINATION 42 STEAM PLANT NAS CECIL FIELD FL

7/12/2000

TETRA TECH

CF_D28

Phase X Sampling and Analysis Work Plan
PSC 42, Steam Plant
Naval Air Station Cecil Field
Jacksonville, Florida

July 12, 2000

Phase X sampling and analysis of surface soils is proposed for PSC 42, the Steam Plant Yellow Water Public Works Area, as shown in Figure A to delineate vertical and horizontal excavation limits. A total of 13 soil samples from 9 locations will be collected at approximate locations 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 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 location of the proposed samples will be located by a registered surveyor in the field 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. 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 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
Antimony	SW-846 6010B	8-oz. glass jar	Cool to 4°C	180 days to analysis

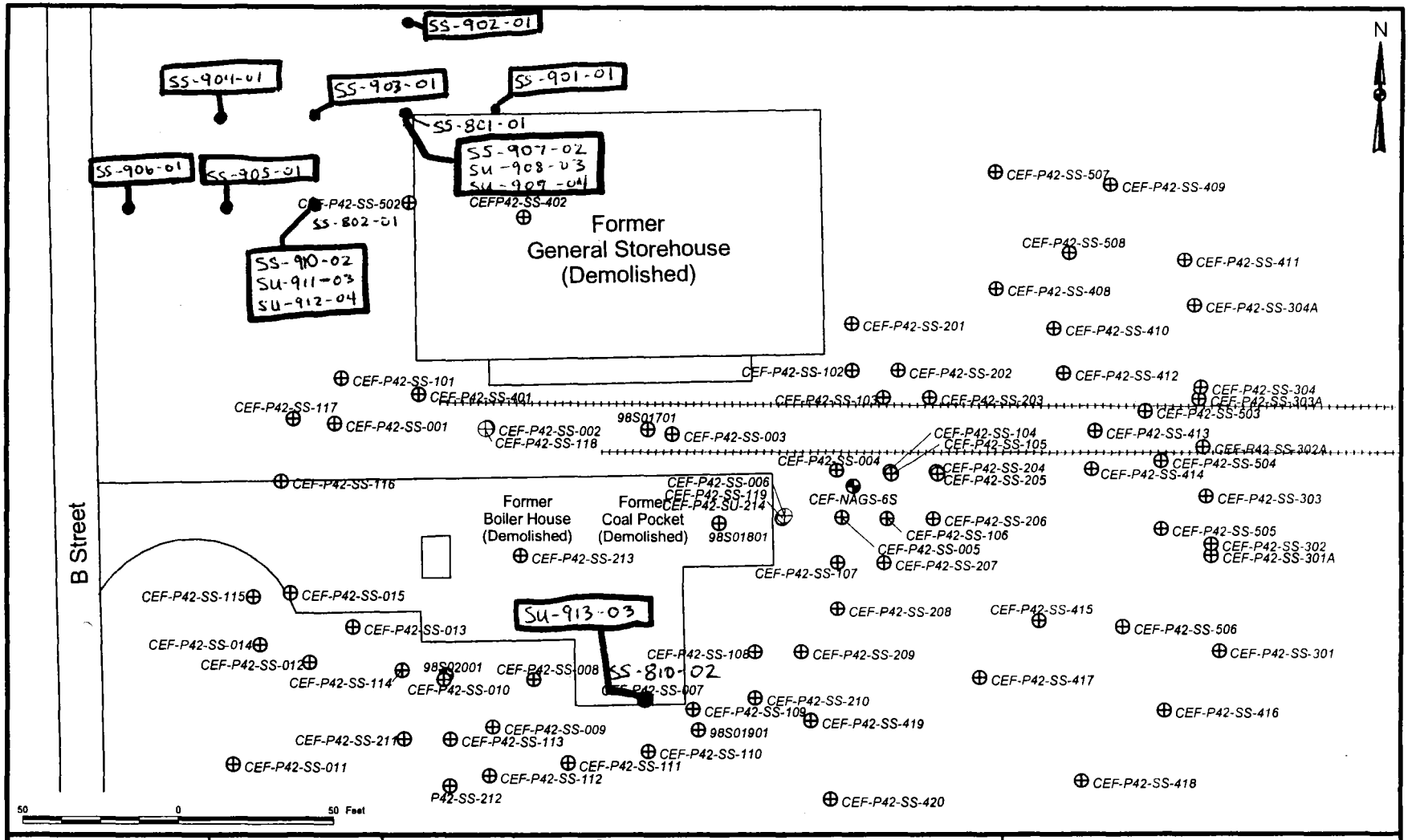
1 Holding times are measured from the date/time of sample collection.

Analytical results will be provided 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: Linda Williams
(407) 425-6700
Fax: (407) 425-0707

7-12-00



DRAWN BY: YLI	DATE: 04/06/99	PHASE I SAMPLE LOCATIONS PSC 42, STEAM 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

P:\GIS\CECIL\PSC42.apr 01Mar00 MJJ Sample Locations Layout

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	2
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

Phase X Sampling and Analysis
PSC 42, Steam Plant

Sample ID CEF-P42-	Location	Analysis	
		PAHs	Antimony
SS-901-01	30 feet east of CEF-P42-SS-801-01 location (0 to 1')	X	
SS-902-01	30 feet north of CEF-P42-SS-801-01 location (0 to 1')	X	
SS-903-01	30 feet west of CEF-P42-SS-801-01 location (0 to 1')	X	
SS-904-01	60 feet west of CEF-P42-SS-801-01 location (0 to 1')	X	
SS-905-01	30 feet west of CEF-P42-SS-802-01 location (0 to 1')	X	
SS-906-01	60 feet west of CEF-P42-SS-902-01 location (0 to 1')	X	
SS-907-02	At CEF-P42-SS-801-01 location (1 to 2')	X	
SU-908-03	At CEF-P42-SS-801-01 location (2 to 3')	X	
SU-909-04	At CEF-P42-SS-801-01 location (3 to 4")	X	
SS-910-02	At CEF-P42-SS-802-01 location (1 to 2')	X	
SU-911-03	At CEF-P42-SS-802-01 location (2 to 3')	X	
SU-912-04	At CEF-P42-SS-802-01 location (3 to 4')	X	
SU-913-03	At CEF-P42-SS-810-02 location (2 to 3')		X