

N60200.AR.002476  
NAS CECIL FIELD, FL  
5090.3a

SAMPLING AND ANALYSIS WORK PLAN FOR BUILDING 1820 NAS CECIL FIELD FL  
6/12/2000  
TETRA TECH NUS INC

**Sampling and Analysis Work Plan  
Building 1820  
Naval Air Station Cecil Field  
Jacksonville, Florida**

**June 12, 2000**

Sampling and analysis of surface soils is proposed for Building 1820, as shown in Figure A. In 1998, four areas on the west side and south side of Building 1820 were excavated to a depth of 1 foot to remediate soil contaminated with chromium, lead, and vanadium. The limits of contaminated soil were not fully delineated at that time of the excavation, and the proposed confirmation samples were not collected. This plan describes the confirmation samples to be collected as recommended by the SAR. A total of 4 surface soil samples will be collected during this investigation from the approximate locations identified on Figure A and described in Table 1.

Sample locations will be measured off of the building corners as noted in Table 1 and as shown on Figure A. The sampling locations are to be surveyed after to sample collection.

**Special instructions:**

1. On the south side of the building, the excavation plan suggests that the east side of the excavation went as far as the building extension. The previous sample locations from the SAR also suggest that the excavation went as far as the extension wall. Inspect the areas to be sampled for signs of excavation and backfill. If it appears that the excavation went up to the building extension wall, then no sample is needed. If there is evidence that the excavation did not reach to the extension wall, then a sample should be collected, at the wall of the extension.

2. Use a measuring tape to locate the points in the field.

3. Inspect all areas for signs of excavations. The samples are to be collected outside of the fill. If uncertain whether the location is in new fill or old soil, move sample location 5 feet further to the north.

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. The proposed 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 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:

<b>Analysis</b>	<b>Analytical Method</b>	<b>Bottleware</b>	<b>Preservation</b>	<b>Holding Time<sup>(1)</sup></b>
Chromium, lead, and vanadium	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 reported 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

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 <sup>(1)</sup>

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

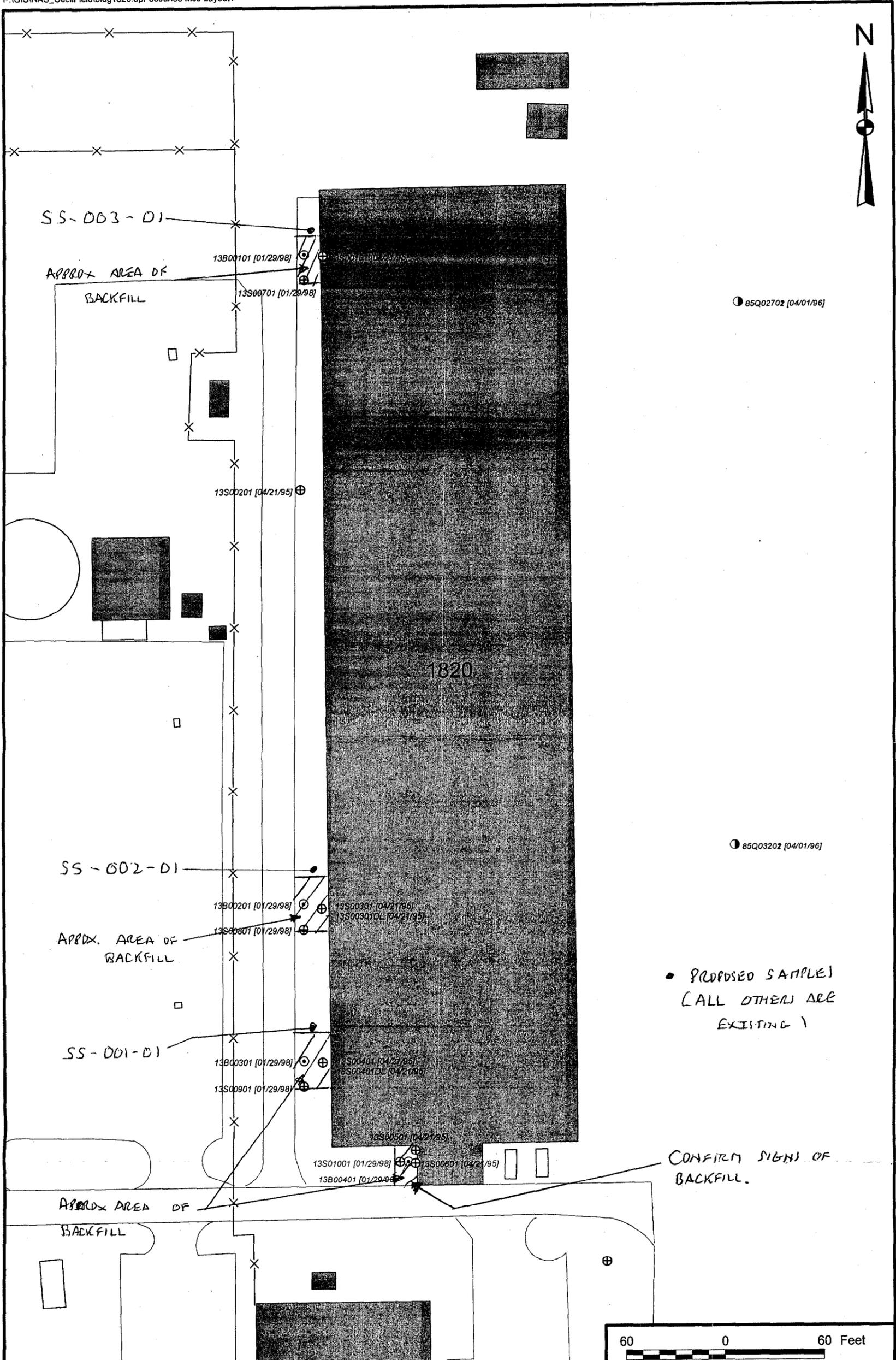
As agreed upon by the BCT, formal data validation has been eliminated from the installation restoration program at NAS Cecil Field. However, the analytical data packages generated by the analytical laboratory will be reviewed by Tetra Tech NUS personnel to eliminate false positives and false negative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

**Table 1**  
**Sampling and Analysis**  
**Building 1820**

Sample ID CEF-1820-	Location	Analysis
		Chromium, lead, and vanadium
SS-001-01	Approximately 65 feet north of southwest corner of Building 1820, and midway between building wall and roadway (about 12 feet from wall). (0 to 1 foot bgs) (See Note below)	X
SS-002-01	Approximately 160 feet north of southwest corner of Building 1820, and midway between building wall and roadway (about 10 feet from wall). (0 to 1 foot bgs) (See Note below)	X
SS-003-01	Approximately 25 feet south of northwest corner of Building 1820, and midway between building wall and roadway (about 8 feet from wall). (0 to 1 foot bgs) (See Note below)	X
SS-004-01* (If needed)	55 feet east of southwest corner of Building 1820, and midway between building wall and roadway (about 10 feet from wall). <b>See Special instructions.</b> (0 to 1 foot bgs)	X

Notes:

- \* See Special instructions regarding the collection of this sample.
- Make sure that samples are collected outside of the backfilled areas, based on field observations.



• PROPOSED SAMPLES  
(ALL OTHERS ARE  
EXISTING)

CONFIRM SIGNS OF  
BACKFILL.

DRAWN BY MJJ	DATE 06Jun00
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE AS NOTED	



SITE LOCATION MAP  
BUILDING 1820  
NAVAL AIR STATION CECIL FIELD  
JACKSONVILLE, FLORIDA

CONTRACT NUMBER 0039	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. - FIG A	REV 0

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