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NAS CECIL FIELD, FL
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SOIL SAMPLING WORK PLAN FOR CONTAMINATION DELINEATION ROUND 2 FOR OPERABLE UNIT 3 (OU 3) SITE 7 NAS CECIL FIELD FL

10/1/1998

TETRA TECH NUS INC

Soil Sampling Work Plan for Contamination Delineation (Round 2)
Operable Unit 3, Site 7
Naval Air Station Cecil Field
Jacksonville, Florida

Scope of Work

This work plan outlines the sampling strategy for further refining the extent of total recoverable petroleum hydrocarbon (TRPH), polynuclear aromatic hydrocarbon (PAH), and inorganic contamination in surface soil at Site 7. In September of 1998, 62 soil samples (CEF-07-SS-119 to CEF-07-SS-180) were collected from 0-1 foot below ground surface at the locations shown on Figure 1. Based on the analytical results from this sampling event and discussions during the October 5, 1998 conference call with the NAS Cecil Field Partnering Team, the following additional samples have been proposed.

Proposed Sample	Sampling Rationale
CEF-07-SS-181 through CEF-07-SS-184	In the southeast portion of Site 7, sample location CEF-07-SS-179 exceeds industrial cleanup criteria. Samples are proposed to bound this excavation limit.
CEF-07-SS-185 and CEF-07-SS-186	In the western portion of the site adjacent to the north-south service road, sample location CEF-07-SS-159 exceeds industrial criteria. Two additional samples are proposed to bound this excavation limit.
CEF-07-SS-187	In the western portion of the site, high concentrations of PAHs in excess of industrial criteria were observed in CEF-07-SS-152. Because the previous excavation limit was drawn within 5 feet of this sample, one additional sample is proposed to ensure that high PAH concentrations are removed.
CEF-07-SS-188 through CEF-07-SS-191	Samples are proposed to further delineate the existing excavation limits.

Per established QA/AC procedures for NAS Cecil Field, one duplicate sample will also be collected (CEF-07-SS-181D). Samples will be collected and shipped to the laboratory for analysis. One MS/MSD sample will also be collected.

Samples will be analyzed within seven days with the following exception. A decision to analyze samples CEF-07-SS-183, CEF-07-SS-184, and CEF-07-SS-186 will not be made until analytical results of the other samples are obtained. The samples will be held at the laboratory until such time. Samples will be

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analyzed for the parameters shown in Table 1. All surface soil samples will be collected in accordance with the methodologies described in the Soil Sampling Work Plan for Contamination Delineation (TtNUS, August 27, 1998).

Sample Handling

The bottleware, preservation, and holding time requirements for the analysis proposed for this investigation is provided in Table 1.

P:\GIS\CECIL\SITE7_TAG.APR 10-06-98 YLI LAYOUT PROPOSED 10/06/98

DRAWN BY YLI	DATE 10/06/98	PROPOSED SURFACE SOIL DELINEATION SAMPLE LOCATIONS (Round 2)	CONTRACT NUMBER 7898
CHECKED BY JJB	DATE 10/06/98	OPERABLE UNIT 3, SITE 7	APPROVED BY — DATE —
COST/SCHEDULE-AREA		NAVAL AIR STATION CECIL FIELD	APPROVED BY — DATE —
SCALE AS NOTED		JACKSONVILLE, FLORIDA	DRAWING NO Figure 1 / REV 0

TABLE 1

SUMMARY OF FIXED-BASED LABORATORY ANALYTICAL METHODS
OPERABLE UNIT 3, SITE 7
NAS CECIL FIELD, JACKSONVILLE, FLORIDA

Analysis	Analytical Method	Sample Volume[1]	Bottleware	Preservation	Holding Time[2]
SOLID: FIXED-BASED LABORATORY					
Inorganics antimony arsenic iron lead thallium	SW-846 6010B/ 7000A Series	4 oz.	Glass jar	Cool to 4°C	6 months, except Hg (28 days)
PAHs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene)	SW-846 8270C	4 oz.	Glass jar	Cool to 4°C; dark	14 days to extraction; 40 days from extraction to analysis
Total Recoverable Petroleum Hydrocarbons	Florida PRO	4 oz.	4-oz. glass jar	Cool to 4°C	14 days to extraction 40 days to analysis

1 Sample volume may vary based on the laboratory.
2 Holding times are measured from the date/time of sample collection.

PRO = Petroleum-range organics

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Z = B & W 11 X 17 Y = COLOR X = OVERSIZE