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NAS CECIL FIELD, FL
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SUPPLEMENTAL SAMPLING AND ANALYSIS WORK PLAN 1 FOR OPERABLE UNIT 10 (OU
10) SITE 21 NAS CECIL FIELD FL
1/13/2005
TETRA TECH NUS INC

**Supplemental Sampling and Analysis Work Plan – No. 1
Site 21
Naval Air Station Cecil Field
Jacksonville, Florida**

January 13, 2005

Supplemental sampling and analysis of groundwater is proposed for Site 21 as shown in Figure A. Groundwater samples collected by DPT in October 2004 showed no additional chlordane contamination and a permanent well must be installed to confirm the DPT results. This plan covers the installation and sampling on one well at Site 21 area.

The new well (CEF-P21-09S) is located downgradient of the plume, as shown on Figure A. The well will be placed in the field relative to existing structures, as shown on Figure A. One groundwater sample will be collected using low-flow methods from the new monitoring well (CEF-P21-09S) as shown on Figure A and described in Table 1.

The sampling activities, quality assurance/quality control (QA/QC) procedures, and data validation requirements for field activities described in this work plan are in general agreement with the U.S. EPA Region IV Environmental Investigation Standard Operating Procedures (SOPs) and Quality Assurance Manual (EISOPQAM), FDEP SOPs FS3000, Remedial Investigation report for Sites 36 and 37, and current Tetra Tech NUS, Inc. (TtNUS) SOPs. Florida Administrative Code (FAC) 62-160, Quality Assurance Rule (FAC 62-160) was updated in April of 2002 and incorporates new SOPs developed and adopted by the FDEP for the collection and analysis of environmental media. Accordingly, the soil and groundwater activities that will be conducted in this work plan will abide by SOPs FS3000 (for soil) and FS2200 (for groundwater), both of which reference additional applicable SOPs as necessary.

The groundwater monitoring well will be installed in accordance with the EISPOQAM and the Base-Wide Generic Work Plan for NAS Cecil Field, except that split-spoon samples will not be collected. The monitoring well will be screened from approximately 3 to 13 feet bgs with 10-foot long 0.010-inch slotted screen. (The screen will be placed to intersect the water table.) Well construction materials will consist of certified-clean 2-inch inside diameter, flush-threaded, polyvinyl chloride (PVC) screen and riser. A registered land surveyor will survey the completed monitoring well.

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.

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⁾
GROUNDWATER				
Total chlordane	SW-846 8081A	1 1-liter amber glass; Teflon-lined cap	Cool to 4°C	7 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 standard 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: Heather Wandrey
 (407) 425-6700
 Fax: (407) 425-0707

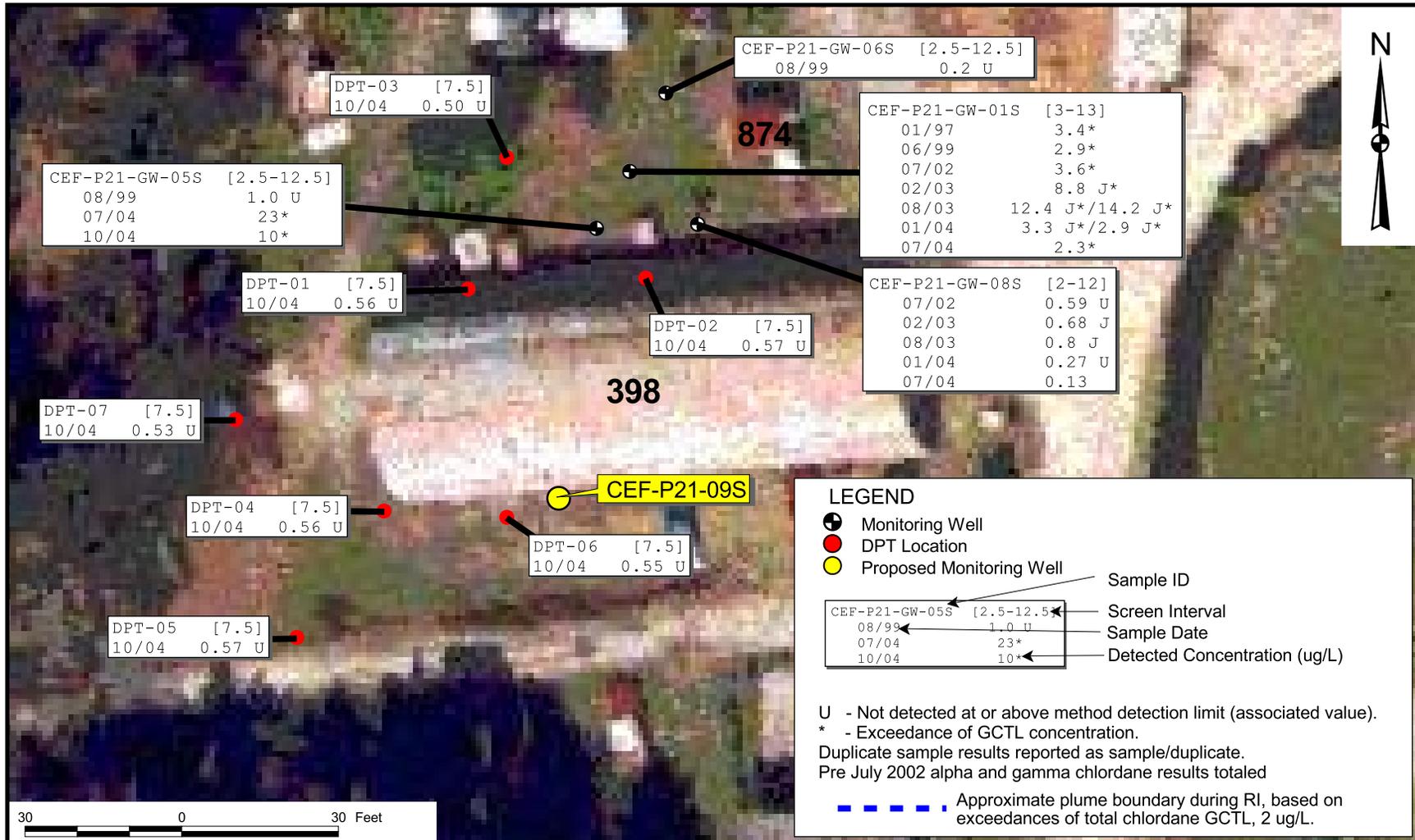
As agreed upon by the BCT, the collection of rinsate and trip blanks has been eliminated at NAS Cecil Field. In addition, field blanks will not be collected during this sampling program because there will be minimal decontamination of sampling equipment. In accordance with these changes, the following 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 groundwater
Lab MS/MSD	1/20 samples/matrix	1 groundwater

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
Supplemental Sampling and Analysis No. 1
Site 21

Sample ID CEF-21-	Location	Analysis
		Total Chlordane
GROUNDWATER		
GW-09S-01	Southern side of Building 398. Approximately 30 feet east of southwestern corner. See Figure.	X



LEGEND

- Monitoring Well
- DPT Location
- Proposed Monitoring Well

Sample ID

CEF-P21-GW-05S	[2.5-12.5]
08/99	1.0 U
07/04	23*
10/04	10*

Screen Interval
Sample Date
Detected Concentration (ug/L)

U - Not detected at or above method detection limit (associated value).
* - Exceedance of GCTL concentration.
Duplicate sample results reported as sample/duplicate.
Pre July 2002 alpha and gamma chlordane results totaled

--- Approximate plume boundary during RI, based on exceedances of total chlordane GCTL, 2 ug/L.



DRAWN BY	DATE
MJJ	13Jan05
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE AS NOTED	



PROPOSED WELL LOCATION AND GROUNDWATER RESULTS
 OU 10, SITE 21
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA

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