

N60200.AR.002520
NAS CECIL FIELD, FL
5090.3a

PHASE 11 SAMPLING AND ANALYSIS WORK PLAN FOR POTENTIAL SOURCE OF
CONTAMINATION 21 GOLF COURSE PESTICIDE MIXING AREA NAS CECIL FIELD FL
7/12/2000
TETRA TECH NUS INC

**Phase XI Sampling and Analysis Work Plan
PSC 21, Golf Course Pesticide Mixing Area
Naval Air Station Cecil Field
Jacksonville, Florida**

July 12, 2000

Phase XI sampling and analysis is proposed for PSC 21, Golf Course Pesticide Mixing Area, to delineate exceedances of leachability criteria for pesticides. A total of 16 soil samples from 9 locations will be collected during Phase XI from the approximate locations identified on Figure A and described in Table 1.

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 locations of the samples collected 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 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.

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⁾
Pesticides	SW-846 8081A	3 8-oz. glass jars	Cool to 4 C	14 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 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	2
Lab MS/MSD	1/20 samples/matrix	1 ⁽¹⁾

(1) MS/MSD is a Laboratory QA/QC requirement; separate sample not required, only additional volume.

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 XI Sampling and Analysis
PSC 21, Golf Course Pesticide Mixing Area**

Sample ID CEF-P21-	Location	Sample Depth				Analysis Pesticides
		0-1'	1-2'	2-3'	3-4'	
SS-901-02	At CEF-P21-SS-813-01 location		X			X
SU-902-03	At CEF-P21-SS-813-01 location			X		X
SU-903-04	At CEF-P21-SS-813-01 location				X	X
SS-904-01	20 feet east of CEF-P21-SS-813-01	X				X
SS-905-01	40 feet east of CEF-P21-SS-813-01; 20 feet east of CEF-P21-SS-904-01	X				X
SS-906-01	15 feet south of CEF-P21-SS-904-01	X				X
SS-907-01	15 feet south of CEF-P21-SS-905-01	X				X
SS-908-02	At CEF-P21-SS-904-01 location		X			X
SU-909-03	At CEF-P21-SS-904-01 location			X		X
SU-910-04	At CEF-P21-SS-904-01 location				X	X
SU-911-03	At CEF-P21-SS-804-02 location			X		X
SU-912-04	At CEF-P21-SS-804-02 location				X	X
SU-913-03	At CEF-P21-SS-805-02 location			X		X
SU-914-04	At CEF-P21-SS-805-02 location				X	X
SU-915-03	At CEF-P21-SS-806-02 location			X		X
SU-916-04	At CEF-P21-SS-806-02 location				X	X

