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ADDENDUM 2 TO THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORK PLAN FOR
OPERABLE UNIT 2 (OU 2) MCCOY ANNEX LANDFILL NTC ORLANDO FL
2/25/1999
TETRA TECH



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February 25, 1999

Project Number 7457

Ms. Barbara Nwokike (Code 1873) (IRP RPM)
SOUTHNAVFACENCOM
2155 Eagle Drive
North Charleston, South Carolina 29419-9010

Reference: CLEAN Contract No. N62467-94-D-0888
Contract Task Order No. 0024

Subject: Addendum 2 to the RI/FS Work Plan for Operable Unit 2, McCoy Annex Landfill,
Naval Training Center, Orlando, Florida

Dear Ms. Nwokike:

Enclosed for your records is Addendum 2 to the OU 2 RI/FS Work Plan. The addendum describes the technical approach for obtaining the additional data on the thickness of soil cover over the landfill. The text of the addendum incorporates comments received from the Orlando Partnering Team and was e-mailed to the Team prior to the fieldwork performed on 3 Feb 99 through 5 Feb 99.

If you have any questions, please call me at (423) 220-4730 or Mike Campbell at (423) 220-4714.

Sincerely yours,

Steven B. McCoy, P.E.
Task Order Manager

SBM/smc

Enclosure

- c: Ms. Nancy Rodriguez, USEPA Region IV
Mr. David Grabka, FDEP
Mr. Wayne Hansel, SOUTHDIV
Lt. Gary Whipple, NTC-Orlando
Mr. Allan Aikens, CH2M Hill
Mr. Bob Cohose, Bechtel
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Mr. Gary Braganza, Tetra Tech NUS
Mr. Michael Campbell, Tetra Tech NUS
Mr. Mark Perry, Tetra Tech NUS
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**REMEDIAL INVESTIGATION AND FEASIBILITY STUDY
WORK PLAN FOR OPERABLE UNIT 2
MCCOY ANNEX LANDFILL
NAVAL TRAINING CENTER, ORLANDO, FLORIDA
ADDENDUM 2**

**WORK PLAN ADDENDUM NUMBER 2
HAND AUGER BORINGS
AT
OPERABLE UNIT 2, McCOY ANNEX LANDFILL
NAVAL TRAINING CENTER, ORLANDO, FLORIDA
FEBRUARY 1999**

1.0 INTRODUCTION

This Addendum Number 2 to the *Remedial Investigation and Feasibility Study (RI/FS) Work Plan for Operable Unit 2, McCoy Annex Landfill*, Naval Training Center, Orlando, Florida (B&R Environmental, May 1997) has been prepared to perform a hand auger boring program at the site.

Approximately 100 hand auger borings and, if necessary, associated shallow test pits will be installed at Operable Unit (OU) 2. The objectives of the boring program are to: (1) increase the density of cover thickness data in the wooded area south of the golf course and; (2) verify the cover thickness data gathered with ground penetrating radar (GPR) on the golf course.

2.0 BORING LOCATIONS

Boring locations will be staked using real-time global positioning system (GPS) equipment. Florida State Plane coordinates for each location will be determined during post processing.

Approximately 50 hand auger borings will be located in the wooded area south of the golf course. These borings will be located in the center of each acre defined by the hand auger borings advanced during Phase I of the Remedial Investigation (RI).

Approximately 50 borings will be advanced within the golf course. Approximately 25 of these borings will be located at points on Phase I GPR traverses where results indicated thin soil cover (less than 2 feet) above landfill material (as identified by the Phase I magnetic data). Approximately 20 borings will be advanced at locations between GPR traverses where the interpolated data indicated thin soil cover (less than 2 feet) above landfill material (as identified by the Phase I magnetic data). Five additional borings will be located where Phase I magnetic data indicate landfill material is not expected to be present.

3.0 HAND AUGER BORINGS

All hand auger borings will be advanced to approximately 4 feet below ground surface (bgs). The contents of each 6-inch auger bucket will be described in the field logbook. Any manmade materials and a general description of the lithology will be noted along with the specific depths encountered.

All material brought to the surface with the hand augers will be returned to the hole at the completion of each boring. The breathing zone will be monitored for organic vapors and radiation during boring activities.

Hand augers will be decontaminated prior to the first use and after the last use each day. Augers will not be decontaminated between each boring because no samples are to be collected for chemical analysis and all boring locations are within OU 2. Decontamination of equipment will be performed in accordance with procedures specified in the *Project Operations Plan for Site Investigations and Remedial Investigations, Volume 1, Naval Training Center, Orlando, Florida, August 1997*.

4.0 TEST PITS

If man-made material is identified in the upper 2 feet of a boring but not below, small (approximately 2 feet long by 2 feet wide) shallow test pits will be dug to determine whether the material is anomalous (e.g., included in the fill material brought in to cover the landfill) or part of the landfill material. Test pits will be dug by hand using shovels (and picks if needed) to a depth of approximately 2 feet bgs. On the golf course, the sod will be removed and set aside prior to digging to total depth. All materials found will be noted in detail in the field logbook along with the depth encountered. All soil will be returned to the pit at the conclusion of digging and the sod will be replaced. The breathing zone will be monitored for organic vapors and radiation during test pitting activities.

Test pitting tools will be decontaminated prior to the first use and after the last use each day. Tools will not be decontaminated between each pit because no samples are to be collected for chemical analysis and all pit locations are within OU 2. Decontamination of equipment will be performed in accordance with procedures specified in the *Project Operations Plan for Site Investigations and Remedial Investigations, Volume 1, Naval Training Center, Orlando, Florida, August 1997*.

5.0 BORING LOCATION NUMBERING

Boring locations in the wooded area south of the golf course will be numbered sequentially starting with H50 (H01 through H49 were installed previously). The locations on the golf course will be numbered sequentially starting with G01.

6.0 IDW MANAGEMENT

Spent decontamination fluids will be stored in clearly marked 55-gal drums.

At the conclusion of the field event, the IDW will be sampled at a frequency determined by the Navy and the IDW disposal subcontractor. Samples will be analyzed for all parameters required for disposal. When analytical results are received, the material will be properly disposed of.

7.0 LOGBOOKS AND FORMS

All pertinent information gathered during the hand auger boring and test pitting program will be written in detail in the field logbook.

8.0 PERSONAL PROTECTIVE EQUIPMENT

All anticipated hazards, recommended control measures, air monitoring, and personal protective equipment for the installation of hand auger borings and small shallow test pits are specified in the site-specific Health and Safety Plan (B&R Environmental, April 1997) and Addendum Number 8 (Tetra Tech NUS, January 1999).