

N60200.AR.002936
NAS CECIL FIELD, FL
5090.3a

DIG AND HAUL PACKAGE FOR FORMER RAILROAD BED BUILDING 535 NAS CECIL FIELD
FL
5/10/2001
TETRA TECH NUS INC

DIG AND HAUL PACKAGE

for

Former Railroad Bed - Building 535

SITE BACKGROUND

Polynuclear aromatic hydrocarbons (PAHs) and metals were detected at concentrations in excess of their residential soil cleanup target levels (SCTLs) in surface soil samples collected along the former railroad bed in the Building 535 area. Analytical results were reviewed by the Base Realignment and Closure (BRAC) Cleanup Team (BCT), and a decision was made to delineate the extent of contaminated soil. Additional site background information may be obtained through reference to the Sampling and Analysis Work Plans for Building 535, AVORD Loading Dock Area (Tetra Tech NUS, Inc. [TtNUS], June 2, 2000, TtNUS, July 31, 2000, and TtNUS, April 4, 2001).

GUIDANCE NOTES

This information is provided for general guidance purposes only. The approximate area of excavation is shown on Figure E-1. The actual extent of excavation will be defined in the field by TtNUS with white spray-down paint (or equivalent) prior to the execution of the removal action.

The Remedial Action Contractor (RAC) shall be responsible for the following:

- The schedule and methods of excavation.
- All aspects of work-site health and safety.
- Identification and avoidance of all aboveground and underground utilities or other manmade structures.
- Waste characterization, transport (both on and off site), and disposal of all excavated soil.
- Notification of TtNUS and the Navy if observations indicate contaminants may extend beyond the planned lateral or vertical limits of the excavation.
- Except where necessary for avoidance of structures or utilities, or where otherwise specified by TtNUS, the depth of excavation should extend to 1 foot below ground surface.
- Excavated soil shall be stockpiled on, and covered with, heavy-duty polyethylene sheeting at the site. This shall be done in a manner to avoid the potential for contaminating surrounding soil or surface water. Alternately, soils may be stockpiled in properly covered roll-off containers.
- Stockpiling and combining of materials from different sites is permitted with prior approval of the BCT, if similar types and concentrations of contaminants are involved and were generated by similar processes.
- Materials used to backfill the excavation shall be from an uncontaminated source and be capable of supporting the same type of vegetation as the soil removed. The ground surface shall be restored to a similar or better condition than existed prior to excavation.



CEF-535-SS-113-01 (See Note 8)
Semivolatile Organics (ug/kg)
BENZO(A)PYRENE 397 [100*/8000]

CEF-535-SS-110-01
Semivolatile Organics (ug/kg)
BENZO(A)PYRENE 914 [100*/8000]
BENZO(B)FLUORANTHENE 1450 [1400*/10000]
DIBENZO(A,H)ANTHRACENE 114 [100*/30000]

Excavation area = 3196 sq.ft.
Excavation to 1 ft. below land surface
Volume to be removed = 118 cubic yards

CEF-535-SS-001-01
Semivolatile Organics (ug/kg)
BENZO(A)ANTHRACENE 4780 [1400*/3200*]
BENZO(A)PYRENE 4710 [100*/8000]
BENZO(B)FLUORANTHENE 5830 [1400*/10000]
INDENO(1,2,3-CD)PYRENE 3370 [1500*/28000]
Inorganics (mg/kg)
ARSENIC 2.6 [2.04*/29]
BARIUM 114 [110*/1600]

[Vertical Excavation Limit Sample]
CEF-535-SS-101-02
Semivolatile Organics (ug/kg)
BENZO(A)ANTHRACENE 107 [1400/3200]
BENZO(A)PYRENE 69.4 [100/8000]
BENZO(B)FLUORANTHENE 107 [1400/10000]
INDENO(1,2,3-CD)PYRENE 63.5 [1500/28000]

CEF-535-SS-106-01
Semivolatile Organics (ug/kg)
BENZO(A)PYRENE 177 [100*/8000]

CEF-535-SS-002-01
Semivolatile Organics (ug/kg)
BENZO(A)PYRENE 641 [100*/8000]

CEF-535-SS-115-01 CEF-535-SS-114-01

CEF-535-SS-112-01 CEF-535-SS-111-01

CEF-535-SS-109-01 CEF-535-SS-108-01

CEF-535-SS-103-01 CEF-535-SS-101-02

CEF-535-SS-104-01 CEF-535-SS-102-01

CEF-535-SS-201-01 CEF-535-SS-105-01

CEF-535-SS-003-01

CEF-535-SS-004-01

CEF-535-SS-107-01
Semivolatile Organics (ug/kg)
BENZO(A)PYRENE 408 [100*/8000]

CEF-535-SS-108-01
Semivolatile Organics (ug/kg)
BENZO(A)PYRENE 350 [100*/8000]

Corner	Easting	Northing
1	384205.99	2148023.09
2	384219.93	2148023.09
3	384220.81	2147997.40
4	384242.06	2147974.54
5	384222.99	2147953.21
6	384219.93	2147853.87
7	384205.99	2147853.87
8	384199.26	2147903.32
9	384205.99	2147952.00

- Notes:
- Warning: Obtain utility clearance before excavation.
 - Extent of excavation to be marked in the field by Tetra Tech NUS, Inc.
 - Removal will be conducted to 1' below ground surface.
 - Contaminants of concern are PAHs.
 - Waste characterization, transport, and disposal of excavated soil are the responsibility of the remedial action contractor.
 - Return site to pre-excavation conditions.
 - If excavation extends beyond 1' bgs, provide proper support of excavation walls to prevent damage to adjacent building and paved areas as needed.
 - Additional delineation along railroad track not required based on BCT decision on Rolling Stock.

Legend

- ⊕ Surface Soil Sample
- ⊙ Surface and Subsurface Soil Sample
- ▭ Buildings
- ▨ Excavation Area

Sample ID

CEF-P46-SS-001

Fraction (ug/kg)

PARAMETER 500 [100/8000]

FDEP Residential/Leachability SCTL

Detection Concentration

Parameter



DRAWN BY	DATE
MJJ	12Sep10
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE	
AS NOTED	



REMOVAL ACTION DESIGN PLAN
SOIL EXCAVATION
FORMER RAILROAD BED - BUILDING 535
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

CONTRACT NUMBER 0039	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE E-1	REV 1