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NAS CECIL FIELD, FL  
5090.3a

DIG AND HAUL PACKAGE FOR BUILDING 610 NAS CECIL FIELD FL  
5/10/2001  
TETRA TECH NUS INC

# **DIG AND HAUL PACKAGE**

## **for**

### **Building 610**

#### **SITE BACKGROUND**

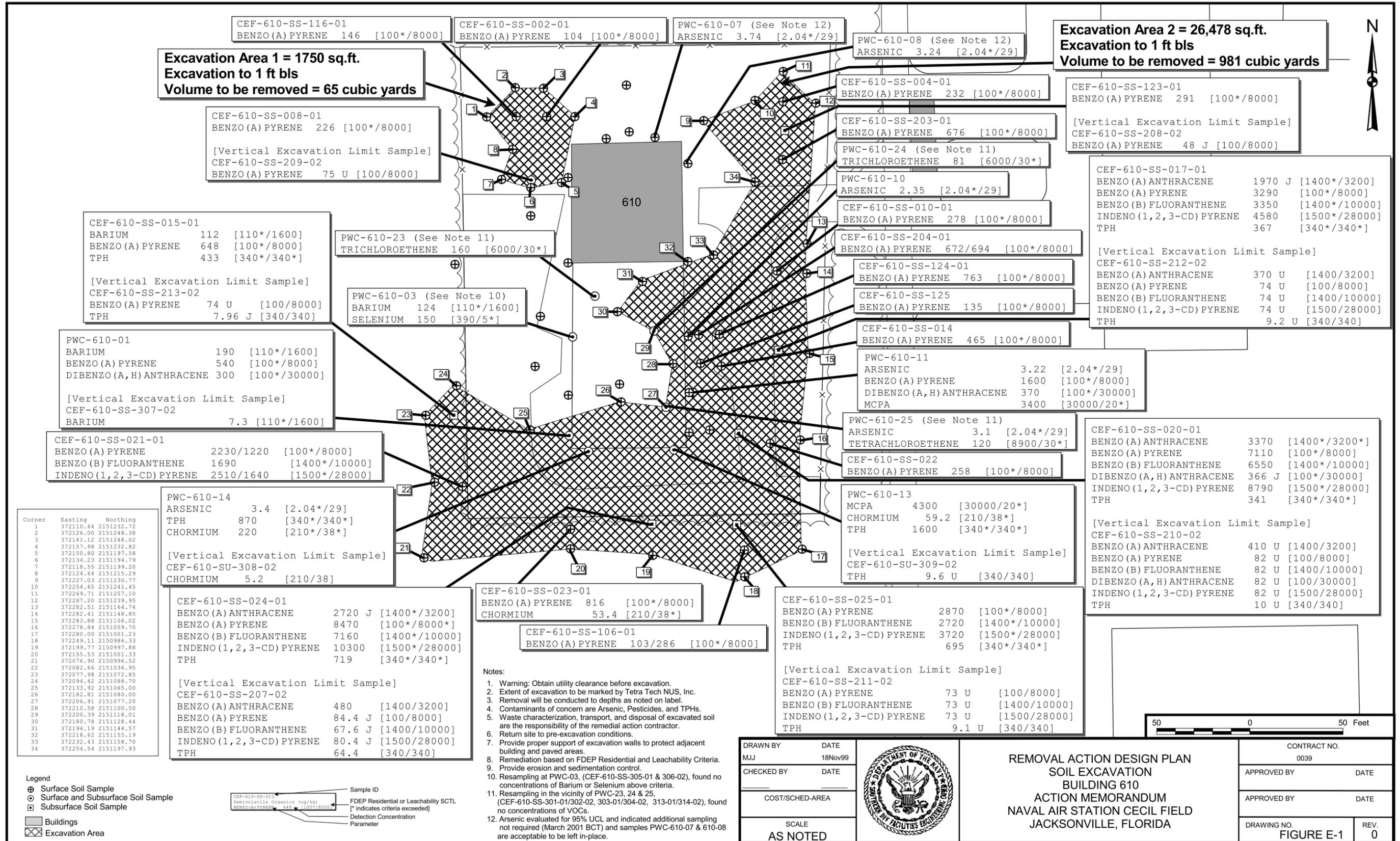
Polynuclear aromatic hydrocarbons (PAH), total petroleum hydrocarbons (TPH), pesticides, and metals were detected at concentrations in excess of their residential soil cleanup target levels (SCTLs) in surface soil samples collected in the Building 610 area. Analytical results were reviewed by the Base 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 610 (Tetra Tech NUS, Inc. [TtNUS], September 28, 2000, TtNUS, December 13, 2000, TtNUS, January 22, 2001, and TtNUS, March 9, 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.



**Excavation Area 1 = 1750 sq.ft.**  
**Excavation to 1 ft bls**  
**Volume to be removed = 65 cubic yards**

**Excavation Area 2 = 26,478 sq.ft.**  
**Excavation to 1 ft bls**  
**Volume to be removed = 981 cubic yards**

CEF-610-SS-015-01  
 BARIUM 112 [110\*/1600]  
 BENZO (A) PYRENE 648 [100\*/8000]  
 TPH 433 [340\*/340\*]  
 [Vertical Excavation Limit Sample]  
 CEF-610-SS-213-02  
 BENZO (A) PYRENE 74 U [100/8000]  
 TPH 7.96 J [340/340]

PWC-610-01  
 BARIUM 190 [110\*/1600]  
 BENZO (A) PYRENE 540 [100\*/8000]  
 DIBENZO (A, H) ANTHRACENE 300 [100\*/30000]  
 [Vertical Excavation Limit Sample]  
 CEF-610-SS-307-02  
 BARIUM 7.3 [110\*/1600]

CEF-610-SS-021-01  
 BENZO (A) PYRENE 2230/1220 [100\*/8000]  
 BENZO (B) FLUORANTHENE 1690 [1400\*/10000]  
 INDENO (1, 2, 3-CD) PYRENE 2510/1640 [1500\*/28000]

PWC-610-14  
 ARSENIC 3.4 [2.04\*/29]  
 TPH 870 [340\*/340\*]  
 CHORMIUM 220 [210\*/38\*]  
 [Vertical Excavation Limit Sample]  
 CEF-610-SU-308-02  
 CHORMIUM 5.2 [210/38]

CEF-610-SS-024-01  
 BENZO (A) ANTHRACENE 2720 J [1400\*/3200]  
 BENZO (A) PYRENE 8470 [100\*/8000\*]  
 BENZO (B) FLUORANTHENE 7160 [1400\*/10000]  
 INDENO (1, 2, 3-CD) PYRENE 10300 [1500\*/28000]  
 TPH 719 [340\*/340\*]  
 [Vertical Excavation Limit Sample]  
 CEF-610-SS-207-02  
 BENZO (A) ANTHRACENE 480 [1400/3200]  
 BENZO (A) PYRENE 84.4 J [100/8000]  
 BENZO (B) FLUORANTHENE 67.6 J [1400/10000]  
 INDENO (1, 2, 3-CD) PYRENE 80.4 J [1500/28000]  
 TPH 64.4 [340/340]

CEF-610-SS-023-01  
 BENZO (A) PYRENE 816 [100\*/8000]  
 CHORMIUM 53.4 [210/38\*]

CEF-610-SS-106-01  
 BENZO (A) PYRENE 103/286 [100\*/8000]

CEF-610-SS-025-01  
 BENZO (A) PYRENE 2870 [100\*/8000]  
 BENZO (B) FLUORANTHENE 2720 [1400\*/10000]  
 INDENO (1, 2, 3-CD) PYRENE 3720 [1500\*/28000]  
 TPH 695 [340\*/340\*]  
 [Vertical Excavation Limit Sample]  
 CEF-610-SS-211-02  
 BENZO (A) PYRENE 73 U [100/8000]  
 BENZO (B) FLUORANTHENE 73 U [1400/10000]  
 INDENO (1, 2, 3-CD) PYRENE 73 U [1500/28000]  
 TPH 9.1 U [340/340]

CEF-610-SS-123-01  
 BENZO (A) PYRENE 291 [100\*/8000]  
 [Vertical Excavation Limit Sample]  
 CEF-610-SS-208-02  
 BENZO (A) PYRENE 48 J [100/8000]

CEF-610-SS-017-01  
 BENZO (A) ANTHRACENE 1970 J [1400\*/3200]  
 BENZO (A) PYRENE 3290 [100\*/8000]  
 BENZO (B) FLUORANTHENE 3350 [1400\*/10000]  
 INDENO (1, 2, 3-CD) PYRENE 4580 [1500\*/28000]  
 TPH 367 [340\*/340\*]  
 [Vertical Excavation Limit Sample]  
 CEF-610-SS-212-02  
 BENZO (A) ANTHRACENE 370 U [1400/3200]  
 BENZO (A) PYRENE 74 U [100/8000]  
 BENZO (B) FLUORANTHENE 74 U [1400/10000]  
 INDENO (1, 2, 3-CD) PYRENE 74 U [1500/28000]  
 TPH 9.2 U [340/340]

CEF-610-SS-020-01  
 BENZO (A) ANTHRACENE 3370 [1400\*/3200\*]  
 BENZO (A) PYRENE 7110 [100\*/8000]  
 BENZO (B) FLUORANTHENE 6550 [1400\*/10000]  
 DIBENZO (A, H) ANTHRACENE 366 J [100\*/30000]  
 INDENO (1, 2, 3-CD) PYRENE 8790 [1500\*/28000]  
 TPH 341 [340\*/340\*]  
 [Vertical Excavation Limit Sample]  
 CEF-610-SS-210-02  
 BENZO (A) ANTHRACENE 410 U [1400/3200]  
 BENZO (A) PYRENE 82 U [100/8000]  
 BENZO (B) FLUORANTHENE 82 U [1400/10000]  
 DIBENZO (A, H) ANTHRACENE 82 U [100/30000]  
 INDENO (1, 2, 3-CD) PYRENE 82 U [1500/28000]  
 TPH 10 U [340/340]

Corner	Easting	Northing
1	372110.64	2151232.72
2	372126.00	2151248.38
3	372141.12	2151248.02
4	372157.98	2151232.82
5	372150.80	2151197.58
6	372134.23	2151194.79
7	372118.55	2151199.20
8	372124.64	2151215.29
9	372227.03	2151230.77
10	372254.65	2151241.45
11	372269.71	2151257.10
12	372287.20	2151239.95
13	372282.51	2151164.74
14	372282.41	2151148.85
15	372283.88	2151106.02
16	372278.84	2151059.70
17	372280.00	2151001.23
18	372249.11	2150986.33
19	372199.77	2150997.88
20	372155.53	2151001.33
21	372076.90	2150996.52
22	372082.66	2151036.95
23	372077.98	2151072.85
24	372094.42	2151088.70
25	372133.92	2151065.00
26	372182.81	2151080.00
27	372206.91	2151077.20
28	372210.58	2151100.50
29	372200.39	2151118.01
30	372180.78	2151128.44
31	372194.19	2151144.57
32	372218.62	2151155.19
33	372232.43	2151158.70
34	372254.54	2151197.93

- Notes:
- Warning: Obtain utility clearance before excavation.
  - Extent of excavation to be marked by Tetra Tech NUS, Inc.
  - Removal will be conducted to depths as noted on label.
  - Contaminants of concern are Arsenic, Pesticides, and TPHs.
  - Waste characterization, transport, and disposal of excavated soil are the responsibility of the remedial action contractor.
  - Return site to pre-excavation conditions.
  - Provide proper support of excavation walls to protect adjacent building and paved areas.
  - Remediation based on FDEP Residential and Leachability Criteria.
  - Provide erosion and sedimentation control.
  - Resampling at PWC-03, (CEF-610-SS-305-01 & 306-02), found no concentrations of Barium or Selenium above criteria.
  - Resampling in the vicinity of PWC-23, 24 & 25, (CEF-610-SS-301-01/302-02, 303-01/304-02, 313-01/314-02), found no concentrations of VOCs.
  - Arsenic evaluated for 95% UCL and indicated additional sampling not required (March 2001 BCT) and samples PWC-610-07 & 610-08 are acceptable to be left in-place.

DRAWN BY	DATE
MJJ	18Nov99
CHECKED BY	DATE
COST/SCHED-AREA	
SCALE	
AS NOTED	



**REMOVAL ACTION DESIGN PLAN**  
**SOIL EXCAVATION**  
**BUILDING 610**  
**ACTION MEMORANDUM**  
**NAVAL AIR STATION CECIL FIELD**  
**JACKSONVILLE, FLORIDA**

CONTRACT NO.	
0039	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	REV.
FIGURE E-1	0