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NAS CECIL FIELD, FL
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DIG AND HAUL PACKAGE FOR CONTAMINATED SOIL AT SITE 37 NAS CECIL FIELD FL
11/2/2000
TETRA TECH NUS INC

DIG AND HAUL PACKAGE
for
Site 37 – Contaminated Soil

SITE BACKGROUND

Contaminants detected in soil samples from the unpaved area south of Hangar 14 at concentrations in excess of Florida Department of Environmental Protection (FDEP) Soil Cleanup Target Levels (SCTLs) include ethylbenzene, toluene, and xylenes, benzo(a)pyrene, cadmium, chromium, total recoverable petroleum hydrocarbons (TRPH), and polychlorinated biphenyls (PCBs). Based on high photoionization detector (PID) readings at the original soil sample locations, additional samples for headspace analysis were collected. Results from these samples showed that contamination was widespread in the unpaved area. Analytical results were reviewed by the Base Realignment and Closure (BRAC) Cleanup Team (BCT), and a decision was made to excavate soil within the unpaved area to the water table. Additional site background information may be obtained through reference to the Remedial Investigation Report for Sites 36-Control Tower TCE Plume and Site 37 Hangars 13 and 14 DCE Plume (Tetra Tech NUS, Inc. [TtNUS], August, 1999).

GUIDANCE NOTES

This information is provided for general guidance purposes only. The approximate area of excavation, which encompasses the entire unpaved area south of Hangar 14, 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 excavated soil see below).
- Screening of soil with a PID will be conducted by the RAC during excavation.
- Excavated soils with PID readings of less than 50 ppm will be considered clean and stockpiled separately 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. Composite sampling of stockpiled soil with PID readings of less than 50 ppm will be conducted for verification purposes. Composite samples will be analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polynuclear aromatic hydrocarbons (PAHs) (by Method 8310), metals, TRPH, and PCBs.
- Excavated soils with PID readings of greater than 50 ppm will be stockpiled separately 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. These soils will be assumed dirty and properly disposed based on waste characterization activities.
- Notification of TtNUS and the Navy if observations indicate contaminants may extend beyond the planned lateral or vertical limits of the excavation.

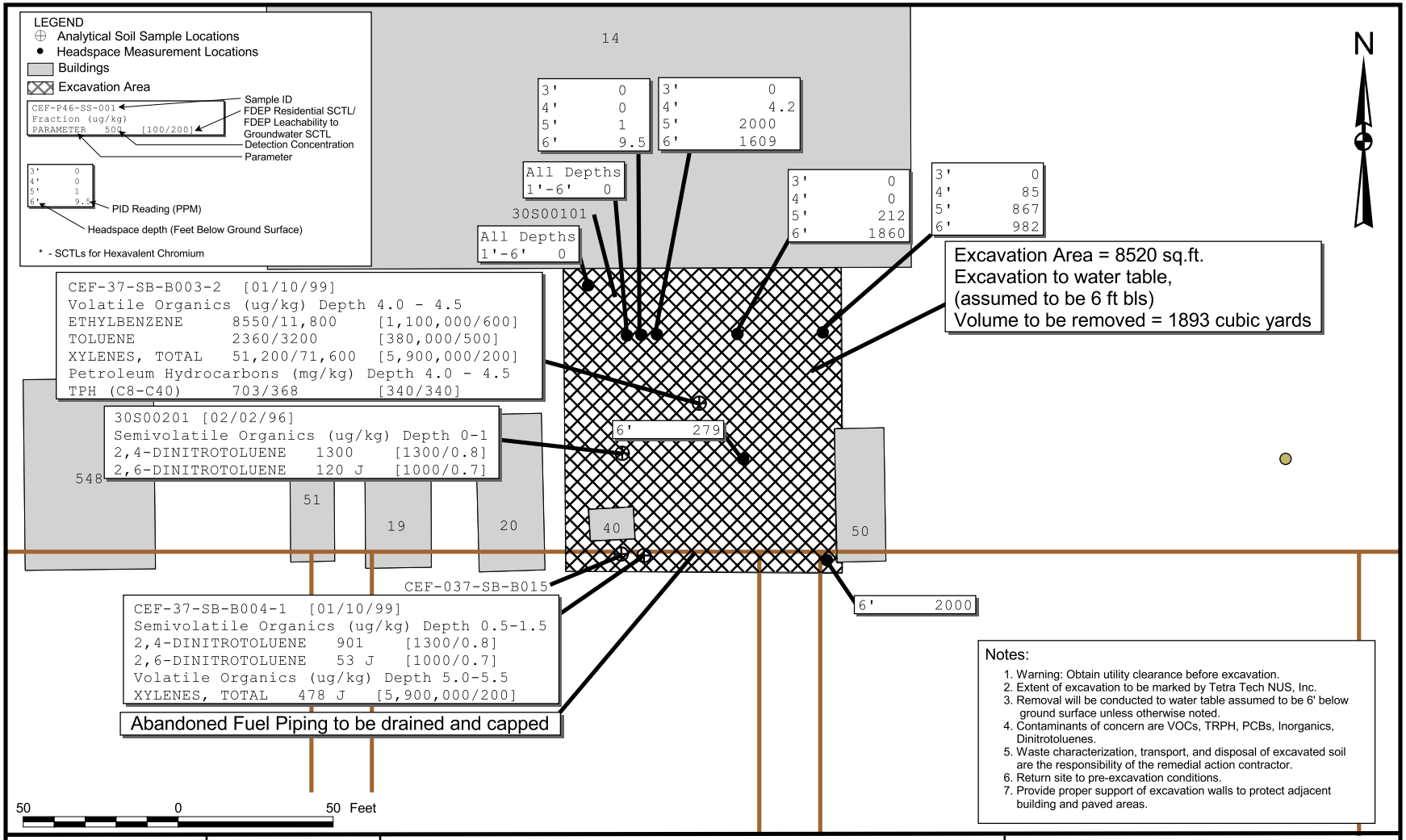
- Except where necessary for avoidance of structures or utilities, or where otherwise specified by TtNUS, the depth of excavation should extend to the water table, expected to be approximately 6 feet below ground surface (bgs).

- Materials used to backfill the excavations 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.

- This work is within the fenced area of the Flightline. Construction activities must be coordinated with Air Operations. Worker training and vehicles must comply with the requirements of Air Operations. Construction activities must be performed to minimize the generation of debris that can be hazardous to aircraft.

- A total of 8 confirmation samples will be collected, including two on each wall of the excavated area. These samples will be collected at the base of the excavation, from the unsaturated zone. On each 90-foot excavation wall, the two samples will be collected approximately 30 feet from each other and approximately 30 feet from the corners of the excavation. These samples will be analyzed for VOCs, SVOCs, PAHs (by Method 8310), inorganics, TRPH, and PCBs. The BCT shall be notified if confirmation samples are contaminated so that institutional controls or additional investigation can be decided upon.

- Fuel piping is present within the excavation area. Figure E-2 shows piping locations in the area south of Hangar 14. The piping within the excavation area must be gravity drained and properly disposed. Caps shall be installed on the pipe ends extending from the excavation area. The BCT shall be notified if a significant quantity of liquid is present in the piping.



Notes:

1. Warning: Obtain utility clearance before excavation.
2. Extent of excavation to be marked by Tetra Tech NUS, Inc.
3. Removal will be conducted to water table assumed to be 6' below ground surface unless otherwise noted.
4. Contaminants of concern are VOCs, TRPH, PCBs, Inorganics, Dinitrotoluenes.
5. Waste characterization, transport, and disposal of excavated soil are the responsibility of the remedial action contractor.
6. Return site to pre-excavation conditions.
7. Provide proper support of excavation walls to protect adjacent building and paved areas.

DRAWN BY MJJ	DATE 18Oct00	REMEDIAL DESIGN PLAN SOIL EXCAVATION SITE 36 AND 37 NAS CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0039
CHECKED BY ___	DATE ___		APPROVED BY ___ DATE ___
COST/SCHEDULE-AREA			APPROVED BY ___ DATE ___
SCALE AS NOTED			DRAWING NO. FIGURE E-1 / REV 0

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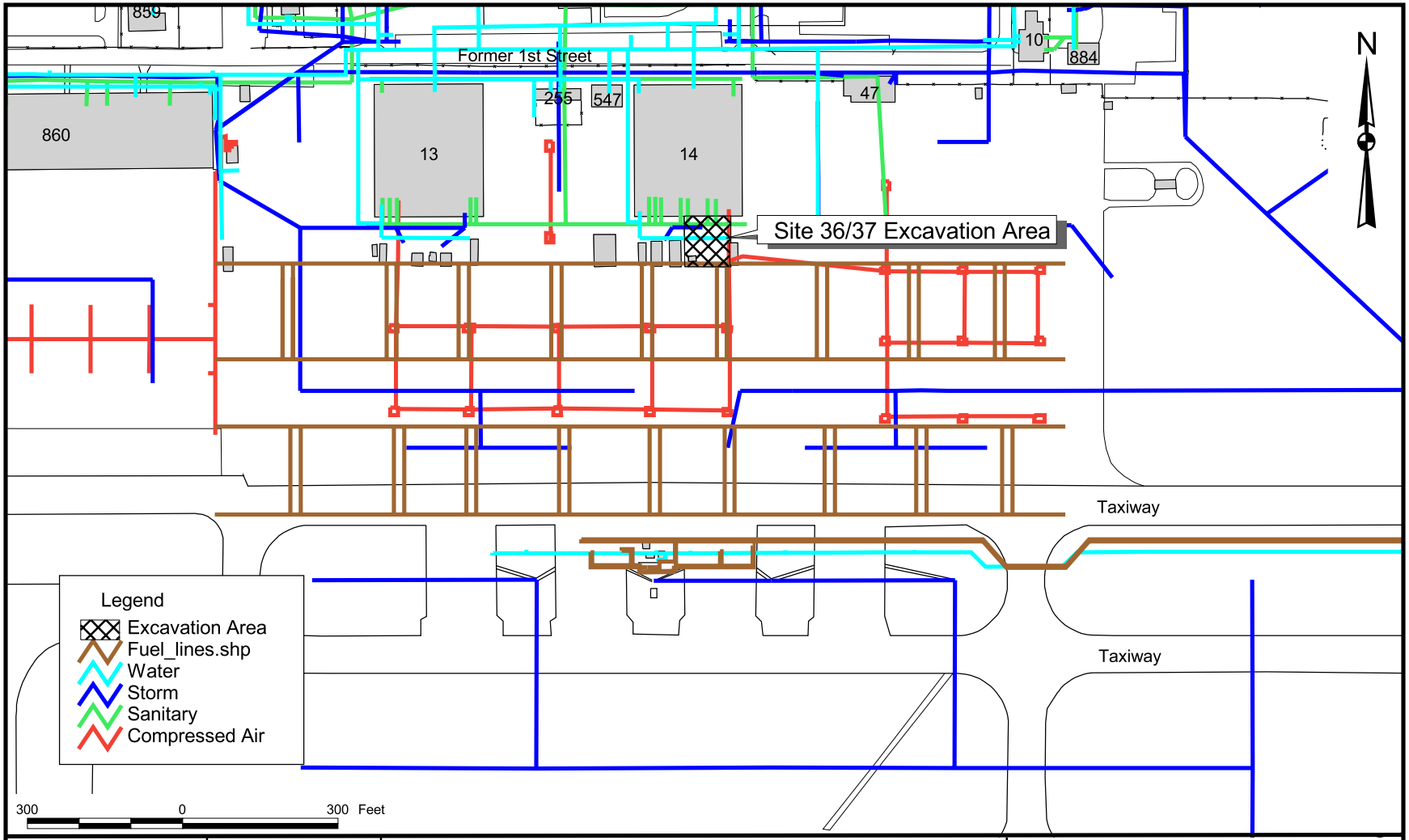

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CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE	
AS NOTED	

UTILITY MAP

SITE 36 AND 37

NAS CECIL FIELD

JACKSONVILLE, FLORIDA

CONTRACT NUMBER	
0039	
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FIGURE E-2	0

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