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NAS CECIL FIELD, FL  
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LETTER OF TRANSMITTAL AND ERRATA SHEETS FOR FINAL SOURCE  
REMOVAL/CONSTRUCTION COMPLETION REPORT FOR EXCAVATION OF PETROLEUM-  
CONTAMINATED SOIL FROM DAY TANK 2 AREA NAS CECIL FIELD FL  
4/7/1999  
CH2MHILL CONSTRUCTORS INC



**CCI** NAVY RAC

**CH2MHILL Constructors, Inc.**  
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April 7, 1999

Mr. Mike Deliz  
Florida Department of Environmental Protection  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

Subject: Errata Sheets  
Final Source Removal/Construction Completion Report for the Excavation of  
Petroleum-Contaminated Soil from the Day Tank 2 Area  
Revision No. 01

Dear Mr. Deliz:

On behalf of Southern Division, Naval Facilities Engineering Command, CH2M HILL Constructors, Inc. is pleased to submit two copies of errata sheets for the Final Source Removal/Construction Completion Report for the Excavation of Petroleum-Contaminated Soil from the Day Tank 2 Area, Revision No. 01. The errata sheets incorporate the review comments received from FDEP and Southern Division on March 25, 1999.

Comments or questions you may have concerning this submittal should be directed to Mr. Bryan Kizer at SOUTHNAVFACENGCOM (843) 820-5896.

Sincerely,

CH2M HILL

Norm Hatch, P. E.  
Task Order Manager

- c: B. Kizer, SDIV (1 copy)  
S. Glass, SDIV (1 copy)  
D. Vaughn-Wright, USEPA (2 copies)  
D. Kruzicki, NASDCF (1 copy)  
M. Speranza, TtNUS (1 copy)  
S. Pratt, TtNUS (1 copy)  
J. Flowe, City of Jacksonville (1 copy)

**SOURCE REMOVAL/CONSTRUCTION COMPLETION REPORT  
FOR THE EXCAVATION OF PETROLEUM-CONTAMINATED SOIL  
FROM THE DAY TANK 2 AREA**

Revision No.: 01

**DAY TANK 2 AREA  
NAVAL AIR STATION CECIL FIELD  
JACKSONVILLE, FLORIDA**

Unit Identification Code: N60200

Contract Task Order No. 0002  
Remedial Action Contract No.: N62467-98-D-0995

**April 1999**

Prepared for:



Department of the Navy, Southern Division  
Naval Facilities Engineering Command  
2155 Eagle Drive  
North Charleston, South Carolina 29418

**Release of this document requires the prior notification  
of the chief official of the activity studied.**

**SOURCE REMOVAL/CONSTRUCTION COMPLETION REPORT  
FOR THE EXCAVATION OF PETROLEUM-CONTAMINATED SOIL  
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Prepared by:

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115 Perimeter Center Place, N.E., Suite 700  
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Prepared for:

Department of the Navy, Southern Division  
Naval Facilities Engineering Command  
2155 Eagle Drive  
North Charleston, South Carolina 29418

Bryan Kizer, Engineer-in-Charge

**April 1999**



**CERTIFICATION OF TECHNICAL  
DATA CONFORMITY (APRIL 1999)**

The contractor, CH2M HILL Constructors, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0002 are complete and accurate and comply with all requirements of this contract.

DATE: April 6, 1999

NAME AND TITLE OF CERTIFYING OFFICIAL:

*Norman N. Hatch, Jr.*  
Norman N. Hatch, Jr., P.E.

Contract Task Order Manager

NAME AND TITLE OF CERTIFYING OFFICIAL:

*Charles A. Radford*  
Charles A. Radford

Project Technical Lead

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## **EXECUTIVE SUMMARY**

A Source Removal was conducted at the Day Tank 2 Area from October 1998 to February 1999 that included the excavation of 28,953 tons (19,354 cubic yards) of petroleum-contaminated soil and removal of 5000 gallons of free product. Soil was excavated to approximately 1 foot below the current water table. At the time the work was performed, a 4- to 8-foot layer of petroleum-contaminated soils was removed. The contaminated soil and free product were disposed of offsite.

The Source Removal was conducted in accordance with the Florida Department of Environmental Protection (FDEP) Petroleum Contamination Site Cleanup rule 62-770, Florida Administrative Code (FAC). The Day Tank 2 Area Source Removal was conducted under the guidance of the Cecil Field BRAC Cleanup Team (BCT). The BCT is a partnering team, which includes representatives of NAS Cecil Field Environmental, FDEP, and Navy contractors. CH2M HILL Constructors, Inc. (CCI) was contracted by the Southern Division Naval Facilities Engineering Command (SOUTHNAVFAC-ENGCOM) to perform the Source Removal for the Day Tank 2 Area.

The Day Tank 2 Area is located to the south of the former South Fuel Farm (SFF) at Naval Air Station (NAS) Cecil Field, Jacksonville, Florida. Day Tank 2 was a 200,000-gallon earth-mounded JP-5 tank, installed in 1957 and removed August 1997. In 1992, petroleum contamination was discovered at the Day Tank 2 Area during the Contamination Assessment (CA) of the adjacent SFF. A Site Assessment (SA) was conducted for the Day Tank 2 Area that delineated both soil and groundwater contamination. In August 1998, FDEP approved the Site Assessment Report (SAR) with the condition that a Source Removal be implemented. A Source Removal Plan (Basewide Work Plan, Revision 1 [CCI, 1998a]) and Addendum (Work Plan Addendum, Revision 1 [CCI, 1998b]) were prepared. The Source Removal at the Day Tank 2 Area was conducted in accordance with these plans.

**SOURCE REMOVAL REPORT REQUIREMENTS – CHECKLIST**

Per FAC 62-770.300(3) the Source Removal Report shall contain the following information in detail, as applicable:

**Site Name: Day Tank 2 Area**

**Date(s) of Source Removal: 10/98 – 2/99**

| <b>Required Information</b>  | <b>Response</b>   |
|--|---|
| 1. Volume of product that was discharged, if known   | <i>Unknown</i>  |
| 2. Volume of free product and the volume of groundwater recovered  | <i>5000 gallons of oily liquid recovered from the excavation</i>  |
| 3. Volume of contaminated soil excavated and treated or properly disposed  | <i>28,953 tons (19,354 cubic yards) of soil excavated and disposed of offsite</i>   |
| 4. Disposal or recycling methods for free product and contaminated soil  | <i>Free product disposal at Industrial Water Services (IWS), Jacksonville, Florida<br/>Contaminated soils recycled at Kedesh, Inc, Kingsland, Georgia and Soil Remediation, Inc., Ray City, Georgia</i> |
| 5. Disposal methods for other contaminated media   | <i>No other contaminated media</i>  |
| 6. Scaled site map (including a graphical representation of the scale used) showing location(s) of free product recovered and the area of soil removed or treated and the approximate locations of all samples taken   | <i>See Figures 3-1, 3-2, 3-3, and 4-1</i>   |
| 7. Table summarizing free product thickness in each monitoring well or piezometer and the dates the measurements were made   | <i>Free product was removed from the excavation area, not from monitoring wells or piezometers</i>  |
| 8. Type of field screening instrument or method used   | <i>OVA/FID; and PID</i>   |
| 9. Dimensions of the excavation(s) and location(s), integrity, capacities and last known contents of storage tanks, integral piping, dispensers, or appurtenances removed  | <i>Excavation area: 2.5 acres (see Figures 4-1 and 4-2)<br/>200,000-gallon earth-mounded AST, the tank contained JP-5 (see Figure 1-1)</i>  |
| 10. Dimensions of the excavation(s) and location(s) and capacities of replacement underground storage tanks  | <i>Not Applicable. No replacement tank installed</i>  |
| 11. Table indicating the identification, depth and field soil screening results of each sample collected   | <i>See Table 3-2</i>  |
| 12. Depth to groundwater at the time of each excavation, measurement locations and method used to obtain that information  | <i>Depth to groundwater approximately 5 to 9 feet bls. Measured in monitoring wells and by visual observation (See Section 4.2.4)</i>   |
| 13. Type of petroleum or petroleum products discharged   | <i>JP-5</i>   |
| 14. Documentation confirming the proper treatment or proper disposal of the free product or contaminated soil, including disposal manifests for free product, a copy of the treatment or acceptance of the contaminated soil and results of analyses, if performed | <i>See Sections 4.2.5 and 4.2.7, and Appendix E</i>   |
| 15. For land farmed soil, a copy of the pre-treatment and post-treatment analytical results  | <i>Not Applicable. Soil disposed of offsite</i>   |

## **1.0 INTRODUCTION**

CH2M HILL Constructors, Inc. (CCI) was contracted by the Southern Division Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) to excavate petroleum-contaminated soil, remove free product, and prepare a Source Removal/Construction Completion Report for the Day Tank 2 Area at Naval Air Station (NAS) Cecil Field in Jacksonville, Florida. The removal action was conducted in accordance with the Florida Department of Environmental Protection (FDEP) Petroleum Contamination Site Cleanup rule 62-770, Florida Administrative Code (FAC).

The scope of services for the Source Removal at the Day Tank 2 Area is described in detail in the NAS Cecil Field Basewide Work Plan, Revision 1 (CCI, 1998a) and the Work Plan Addendum, Revision 1 (CCI, 1998b). This work was authorized under the Remedial Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 002.

**1.1 SITE LOCATION AND DESCRIPTION.** NAS Cecil Field is located west of Jacksonville, in Duval County Florida. The Day Tank 2 Area is located along the flightline, due south of the former South Fuel Farm (SFF).

Day Tank 2 was an above ground 200,000-gallon steel tank that stored JP-5. The tank was earth-mounded, covered with soil for insulation and protection. The tank was installed in 1957 and removed August 1997. An adjacent 420-gallon above ground storage tank and piping were also removed in August 1997, but a block building (Building 341), a rectifier, a pipeline, and a gravel-lined overflow pond were left in place (TTNUS, 1998). A site plan showing conditions prior to the Source Removal is presented in Figure 1-1.

The soils beneath the site are silty-sand and extend to approximately 88 feet below land surface (bls). The depth to groundwater is approximately 6 feet bls. Groundwater flow in this area is toward the south (TTNUS, 1998).

**1.2 SITE BACKGROUND.** In 1992, petroleum contamination was discovered at the Day Tank 2 Area during the Contamination Assessment (CA) of the adjacent SFF. In October 1996, free product was found and removal was initiated in November 1996. A Site Assessment (SA) was conducted for the Day Tank 2 Area and a Site Assessment Report (SAR) was submitted to FDEP in July 1998. The SAR delineated both soil and groundwater contamination. In August 1998, FDEP approved the SAR with the condition that Source Removal be implemented quickly and the groundwater contamination addressed at a later date. A Source Removal Plan and Addendum were submitted to FDEP for excavation of petroleum-contaminated soil and removal of free product at the Day Tank 2 Area. A timeline outlining the history of the site is presented in Figure 1-2.

**1.3 MAJOR PARTICIPANTS.** The Day Tank 2 Area Source Removal project was conducted under the guidance of the Cecil Field BCT. The BCT is a partnering team, which includes representatives of NAS Cecil Field Environmental, FDEP, and Navy contractors. The major participants of the Day Tank 2 Area Source Removal are listed in Table 1-1.

### 3.0 PERFORMANCE STANDARDS AND CONSTRUCTION QUALITY CONTROL

The performance standards for excavation of petroleum-contaminated soils at the Day Tank 2 Area are described in detail in the NAS Cecil Field Basewide Work Plan, Revision 1 (CCI, 1998a) and the Work Plan Addendum, Revision 1 (CCI, 1998b). The Work Plans included the following documents:

- Sampling and Analysis Plan (SAP)
- Wastestream Management Plan
- Environmental Protection Plan
- Health and Safety Plan
- Quality Control Plan

The source removal was conducted in accordance with 62-770 FAC. All sampling was conducted in accordance with FDEP sampling procedures. All laboratory analyses were conducted by FDEP-approved laboratories. All monitoring wells were abandoned in accordance with St. Johns River Water Management District (SJRWMD) regulations.

**3.1 REMEDIAL ACTION OBJECTIVES.** The primary objective of the remedial action was to remove potential source areas that may contribute to groundwater contamination. Specifically, the objectives of the remedial action at the Day Tank 2 Area were to:

- Remove free product
- Excavate petroleum-contaminated soils to 1 foot below the water table

**3.2 CLEAN-UP LEVELS.** The purpose of the soil excavation at the Day Tank 2 Area was to remove petroleum-contaminated soils that exceeded the Selected Soil Cleanup Target Levels (SCTLs) for leachability outlined in FAC 62-770 Table IV, Column V (based on soil samples collected 6-7 ft below land surface). These SCTLs were established based on the maximum concentrations allowable in soils that protect the groundwater for resource protection/recovery. The SCTLs are summarized in Table 3-1.

**Table 3-1  
Soil Clean-up Goals**

| <b>Chemical of Concern</b>   | <b>SCTL based on Leachability (mg/kg)</b> |
|------------------------------|---|
| Benzene                      | 0.007                                     |
| Ethyl benzene                | 0.4                                       |
| Toluene                      | 0.4                                       |
| Total Xylenes                | 0.3                                       |
| 1,2-Dichloroethane (1,2-DCA) | 0.02                                      |
| MTBE                         | 0.2                                       |
| Acenaphthene                 | 4   |
| Acenaphthylene               | 22  |
| Anthracene                   | 2000                                      |
| Benzo(a)anthracene           | 2.9                                       |
| Benzo(a)pyrene               | 7.8                                       |
| Benzo(b)fluoranthene         | 9.8                                       |
| Benzo(g,h,i) perylene        | 13000                                     |
| Benzo(k)fluoranthene         | 25  |
| Chrysene                     | 80  |
| Dibenzo(a,h)anthracene       | 14  |
| Fluoranthene                 | 550                                       |
| Fluorene                     | 87  |
| Indeno(1,2,3-c,d)pyrene      | 28  |
| Naphthalene                  | 1   |
| Phenanthrene                 | 120                                       |
| Pyrene                       | 570                                       |
| TRPH                         | 340                                       |

## **4.0 CONSTRUCTION ACTIVITIES**

Source Removal Activities at the Day Tank 2 Area were conducted from October 27, 1998 to February 1, 1999. Photographs showing the site before, during, and after the Source Removal are presented in Appendix D.

**4.1 WELL ABANDONMENT.** In preparation for excavation, 7 monitoring wells and 12 piezometers were abandoned at the Day Tank 2 Area on November 11-12, 1998. The wells and piezometers, abandoned in accordance with SJRWMD regulations, were filled with a cement-bentonite grout. The well abandonment report is presented in Appendix A.

**4.2 DEMOLITION.** In order to excavate the contaminated soil at the Day Tank 2 Area, several structures were demolished. Those structures with special disposal requirements are discussed individually. The following is a list of structures that were demolished as part of the Day Tank 2 Area Source Removal:

- Building 341
- Overflow pond and piping
- Buried fuel lines
- Asphalt area and roadways
- Rectifier
- Storm sewer piping and catch basin

**4.2.1 Building 341.** Building 341, a block wall structure approximately 288 square feet, was formerly used as administration/control building for the SFF. Prior to excavation, the paint samples from the walls of Building 341 were tested for lead and determined to be non-hazardous (see Section 3.5). Building 341 was demolished and approximately 50 tons of debris were disposed of as non-hazardous waste by BFI at the Jones Road Landfill, Jacksonville, Florida. Copies of the manifest are presented in Appendix E.

**4.2.2 Overflow Pond.** A 1/3-acre retention pond approximately 4 feet deep was used in the event of an overflow from the former Day Tank 2. This overflow pond was lined with plastic and gravel. Prior to excavation of the soils beneath the pond, a sample of the gravel was tested and determined to be acceptable for reuse on site as clean fill (see Section 3.7). The gravel was stockpiled until needed for backfilling. The plastic liner was tested and determined to be non-hazardous. The liner was removed and disposed of by Waste Management at the Trail Ridge Landfill, Baldwin, Florida. Copies of the waste profile and manifest are presented in Appendix E.

**4.2.3 Buried Fuel Line Wrapping Material.** Prior to removal of an abandoned fuel line, the wrapping material around the fuel line was tested for asbestos (see Section 3.6). Prior to cutting the pipe by W.W. Gay, Inc., a portion of the wrapping material was removed by a licensed asbestos contractor, Best-Tec, West Palm Beach, Florida. The remainder of the wrapping material was left on the piping and the pipe and wrapping were disposed of at the Trail Ridge Landfill, Baldwin, Florida.

**4.2.4 Rectifier.** Prior to removal of an electrical rectifier located to the east of the overflow pond, the liquid in the rectifier and two soil samples beneath the rectifier were analyzed for PCBs and determined not to contain PCBs (see Section 3.8). The PCB contractor, Aerostar Environmental Services, Inc., Jacksonville, Florida, concluded that no special handling or disposal of the rectifier or the soils was required. The rectifier was removed by the base operations support (BOS) contractor, Lon Coleman Jones, Inc., and the soil beneath the rectifier was disposed of with the petroleum-contaminated soil.



## REFERENCES

Bechtel Environmental Services, Inc., 1997, Construction Completion Report for the Day Tank 2 Area Fuel Recovery Trenches, NAS Cecil Field, Jacksonville, Florida: prepared for Southern Division Naval Facilities Engineering Command.

CH2M HILL Constructors, Inc., 1998a, Basewide Work Plan, Revision No. 1. NAS Cecil Field, Jacksonville, Florida: prepared for Southern Division Naval Facilities Engineering Command, November.

CH2M HILL Constructors, Inc., 1998b, Work Plan Addendum, Revision No. 1, Excavation of Petroleum-Contaminated Soil from 11 Former UST Sites and the Day Tank 2 Area, NAS Cecil Field, Jacksonville, Florida: prepared for Southern Division Naval Facilities Engineering Command, September.

Southern Division Naval Facilities Engineering Command Quality Improvement Forum, 1998, A Guideline for the Preparation of Remedial Action Reports/Closure Reports, Revision 0, May 11.

Southern Division Naval Facilities Engineering Command, 1996, Environmental Report Format Guidance Manual, Revision No. 5, October 9.

Tetra Tech NUS, Inc., 1998, Remedial Investigation Field Sampling Plan for Site 36- Control Tower TCE Plume and Site 37 – Hangars 13 and 14 DCE Plume, NAS Cecil Field, Jacksonville, Florida: prepared for Southern Division Naval Facilities Engineering Command, October.

Tetra Tech NUS, Inc., 1998, Source Removal Plan at Day Tank 2, NAS Cecil Field, Jacksonville, Florida: prepared for Southern Division Naval Facilities Engineering Command, October.

## **APPENDIX E: Waste Profiles and Manifests**

E-1: Building 341 Construction Debris

E-2: Plastic Liner

E-3: Soil Manifest Tabulation

E-4: Free Product

**PLEASE REMOVE AND DISCARD THIS PAGE FROM DOCUMENT.**

**E-3: Asbestos**

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### **E-3: Soil Manifest Tabulation**

**E-4: Free Product**