

N60200.AR.002793  
NAS CECIL FIELD, FL  
5090.3a

SOURCE REMOVAL REPORT FOR EXCAVATION OF PETROLEUM-CONTAMINATED SOIL  
AT POTENTIAL SOURCE OF CONTAMINATION 46 FACILITIES 72 AND 177 NAS CECIL  
FIELD FL  
1/3/2001  
CH2MHILL CONSTRUCTORS INC

**Source Removal Report  
Excavation of Petroleum-Contaminated Soil at  
Potential Source of Contamination 46,  
Facilities 72 and 177**

**Naval Air Station Cecil Field  
Jacksonville, Florida**

**Revision No. 00**

**Contract No. N62467-98-D-0995**

**Contract Task Order No. 0005**

Submitted to:

**U.S. Naval Facilities  
Engineering Command  
Southern Division**

Prepared by:



**CH2MHILL**  
*Constructors, Inc.*

115 Perimeter Center Place, N.E.  
Suite 700  
Atlanta, GA 30346

January 2001

Distribution List

	<u>Copies</u>
Southern Division, Naval Facilities Engineering Command	1
NAS Cecil Field	1
Florida Department of Environmental Protection	1
CH2M HILL Constructors, Inc.	1
Tetra Tech NUS, Inc.	2



**CERTIFICATION OF TECHNICAL  
DATA CONFORMITY (DECEMBER 2000)**

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, CTO No. 0005 is complete and accurate and complies with all requirements of this contract.

Date:

11/3/01

Name and Title of Certifying Official:

Samuel M. Ross

Samuel M. Ross  
Project Manager



**CH2MHILL**  
Constructors, Inc.

### Certificate of Completion

CH2M HILL Constructors, Inc. attests that, to the best of its knowledge and belief, the excavation of petroleum-contaminated soil at PSC 46, Facilities 72 and 177, delivered under Contract No. N62467-98D-0995, Naval Air Station Cecil Field, Jacksonville, Florida, Contract Task Order (CTO) No. 0005, has been completed, inspected, and tested, and is in compliance with the contract.

WJ Canelos  
Project/QC Manager

1/3/01  
Date

# Contents

---

<b>1.0</b>	<b>Introduction.....</b>	<b>1-1</b>
1.1	Site Background.....	1-1
1.2	Project Objectives.....	1-3
<b>2.0</b>	<b>Source Removal Activities.....</b>	<b>2-1</b>
2.1	Site Preparation.....	2-1
2.2	Soil Excavation and Disposal.....	2-1
2.2.1	Soil Excavation.....	2-1
2.2.2	Soil Transportation and Disposal.....	2-1
2.2.3	Backfilling and Site Restoration.....	2-3
2.3	Confirmatory Sampling and Analysis.....	2-4
<b>3.0</b>	<b>Conclusions.....</b>	<b>3-1</b>
<b>4.0</b>	<b>References.....</b>	<b>4-1</b>

## Figures

1-1	Proposed/Actual Soil Excavation Limits.....	1-2
2-1	Post Excavation Drawing.....	2-2

## Tables

2-1	Summary of Soil Disposal Manifests.....	2-3
-----	---	-----

## Appendices

A	Project Photographs
B	Copies of Soil Manifests
C	Certificate of Disposal
D	Clean Fill Material Analytical Report
E	Soil Waste Characterization Analytical Report

# Acronyms

---

bls	below land surface
BRAC	Base Realignment and Closure
CCI	CH2M HILL Constructors, Inc.
CTO	Contract Task Order
EBS	Environmental Baseline Survey
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
NTFF	North Tank Fuel Farm
PAH	polynuclear aromatic hydrocarbon
PSC	Potential Source of Contamination
SCTL	Soil Cleanup Target Level
TRPH	total recoverable petroleum hydrocarbon
TTNUS	Tetra Tech NUS, Inc.
UCL	upper confidence level

# 1.0 Introduction

---

CH2M Hill Constructors, Inc. (CCI) was contracted by the Southern Division, Naval Facilities Engineering Command (NAVFAC) to perform excavation, transportation, and disposal of petroleum-contaminated soils and prepare a Source Removal Report for Potential Source of Contamination (PSC) 46 - Facilities 72 and 177, at Naval Air Station (NAS) Cecil Field in Jacksonville, Florida. The source removal was conducted in accordance with the specifications outlined in the Removal Action Design Package for PSC 46 - Facilities 72 and 177, dated May 2000, prepared by Tetra Tech NUS, Inc. (TtNUS).

The scope of services for excavation of contaminated soils at PSC 46 is described in detail in the NAS Cecil Field Basewide Work Plan, Revision 01 (CCI, 1998) and the Work Plan Addendum No. 6, Revision No. 00, "Excavation of Mercury-Arsenic, PAH-and/or Petroleum-Contaminated Soil from Various Grey Sites" dated June 2000 (CCI, 2000). This work was authorized under Remedial Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0005.

## 1.1 Site Background

PSC 46 consists of the area in the vicinity of Facility 72 and Facility 177 located in the Main Base Area of NAS Cecil Field. PSC 46 is located to the southeast of the South Fuel Farm, and is comprised of the grassy area south of Facility 72 and west of Facility 177. It is bordered to the south by the East-West Runway and to the east by the North-South Runway. Facility 72, known as the Crash Fire Station, was used for storage of fire fighting supplies and equipment and served as living quarters for fire fighting personnel. Three flammable materials lockers located south of the garage parking lot were used to store paint, hydraulic fluid, oils, and lubricants. Facility 177, known as the Arresting Gear Building, is a Quonset hut with a concrete floor used to store aircraft arresting gear reels and equipment, maintenance supplies, and tools. In addition, large quantities of drummed hydraulic oil and antifreeze were stored inside the building (TtNUS, May 2000).

Facilities 72 and 177 were initially evaluated during the Environmental Baseline Survey (EBS) conducted by ABB Environmental Services in 1994. The EBS identified stressed vegetation and noted observations that warranted additional evaluation. Subsequent investigations were performed and found polynuclear aromatic hydrocarbons (PAHs), specifically benzo(a)pyrene, and total recoverable petroleum hydrocarbons (TRPH) present in the surface soils at concentrations in excess of the industrial Soil Cleanup Target Levels (SCTLs). Facilities 72 and 177 were combined and identified as PSC 46. The Base Realignment and Closure (BRAC) Cleanup Team (BCT) made the decision to delineate the extent of contaminated soil by a statistical based approach to achieve a site-wide upper confidence level (UCL) that was below the SCTLs. This iterative statistical process indicated that only soil with benzo(a)pyrene concentrations greater than 770 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ) would require removal. A site plan showing the proposed delineated soil excavation limits prior to this source removal is presented in Figure 1-1.

**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 2' below ground surface unless otherwise noted.
4. Contaminants of concern are BaP, Lead and TPHs.
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.
8. The order in which the statistical evaluation for required remediation was BaP first, then Lead, followed by TPH. Lead and TPH did not exceed Industrial criteria.

**LEGEND**

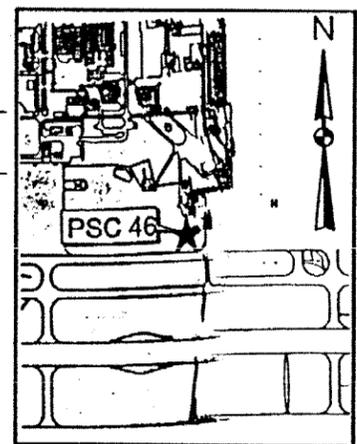
⊕ Soil Sample Locations

▭ Buildings

▨ Excavation Area

CEP-P46-SS-001	Sample ID
Fraction (ug/kg)	Soil Pickup Level or
PARAMETER 500 (100.00)	FDEP Industrial SCTL
	Detection Concentration
	Parameter

341



Grass Area

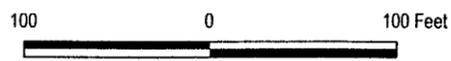
Paved Area

**Area 1**  
Excavation area = 2325 sq.ft.  
Excavation to 1 ft. below land surface  
Volume to be removed = 86 cubic yards

**Area 3**  
Excavation area = 1875 sq.ft.  
Excavation to 2 ft. below land surface  
Volume to be removed = 139 cubic yards

**Area 2**  
Excavation area = 12.5 sq.ft.  
Excavation to 1 ft. below land surface  
Volume to be removed = 0.5 cubic yard

**Area 4**  
Excavation area = 225 sq.ft.  
Excavation to 2 ft. below land surface  
Volume to be removed = 17 cubic yards



Grass Area

**Figure 1-1**  
Proposed/Actual Soil Excavation Limits  
PSC 46, Bldg. 72 and 177  
NAS Cecil Field, Jacksonville, Florida

00499J01Z

## 1.2 Project Objectives

The primary objective of the soil excavation was to remove petroleum-contaminated soil to the horizontal excavation limits shown on Figure 1-1 and the vertical excavation limit of 1 to 2 feet below land surface (bls), as specified in the Removal Action Design Package for PSC 46 - Facilities 72 and 177 (TtNUS, 2000). Soils were excavated until the vertical and horizontal excavation limits were reached, and the excavated area backfilled with clean fill material imported from an offsite source.

## 2.0 Source Removal Activities

---

A source removal was conducted at PSC 46 on August 25 through 29, 2000, with a total of 385.55 tons of petroleum-contaminated soil excavated. The excavated soil was directly loaded and transported offsite the same day it was excavated. Photographs showing the site before, during, and after the source removal are presented in Appendix A.

### 2.1 Site Preparation

In preparation for excavation, utility locations were conducted by Sunshine State One-Call of Florida and J.A. Jones Management Services. Two small diameter and one 4-inch-diameter electrical conduits containing energized wires were found in Area 3. These conduits were located at the bottom of the 2-foot-deep excavation; therefore, it was not necessary to excavate around them. Several abandoned conduit runs were found in Area 3 and were removed and not replaced during the excavation process. Electrical conduit for the taxi-way lighting system was found in Areas 1 and 4. None of these underground utilities were damaged during excavation. The areas around these utility lines were either not excavated or were excavated by hand.

### 2.2 Soil Excavation and Disposal

#### 2.2.1 Soil Excavation

Soil was excavated to the proposed horizontal excavation limits shown on Figure 1-1 and the vertical excavation limit of 1 and 2 feet bls as specified in the Removal Action Design Package for PSC 46 - Facilities 72 and 177 (TtNUS, 2000). The limits shown in Figure 1-1 were surveyed and staked by TtNUS prior to beginning excavation.

The soils were excavated using a hydraulic track excavator and were directly loaded into tarp covered dump trucks for transportation and disposal. Based on the facility weight tickets, 385.55 tons of petroleum-contaminated soils from PSC 46 were excavated and disposed of offsite. The actual horizontal excavation limits matched the staked boundaries and the proposed horizontal excavation limits specified in the Removal Action Design Package for PSC 46 - Facilities 72 and 177 (TtNUS, 2000). A post excavation survey was not performed because the soil was excavated to the original staked boundary. The horizontal excavation area is shown on Figure 2-1. The vertical excavation depths were spot checked by hand measurements.

#### 2.2.2 Soil Transportation and Disposal

Soil samples were collected and analyzed for waste characterization prior to beginning excavation. The waste characterization analytical lab reports are included in Appendix E. The petroleum-contaminated soils were transported offsite by trucks provided by Beaver Bulk Trucking to the Broadhurst Landfill in Jessup, Georgia. The manifests are tabulated in

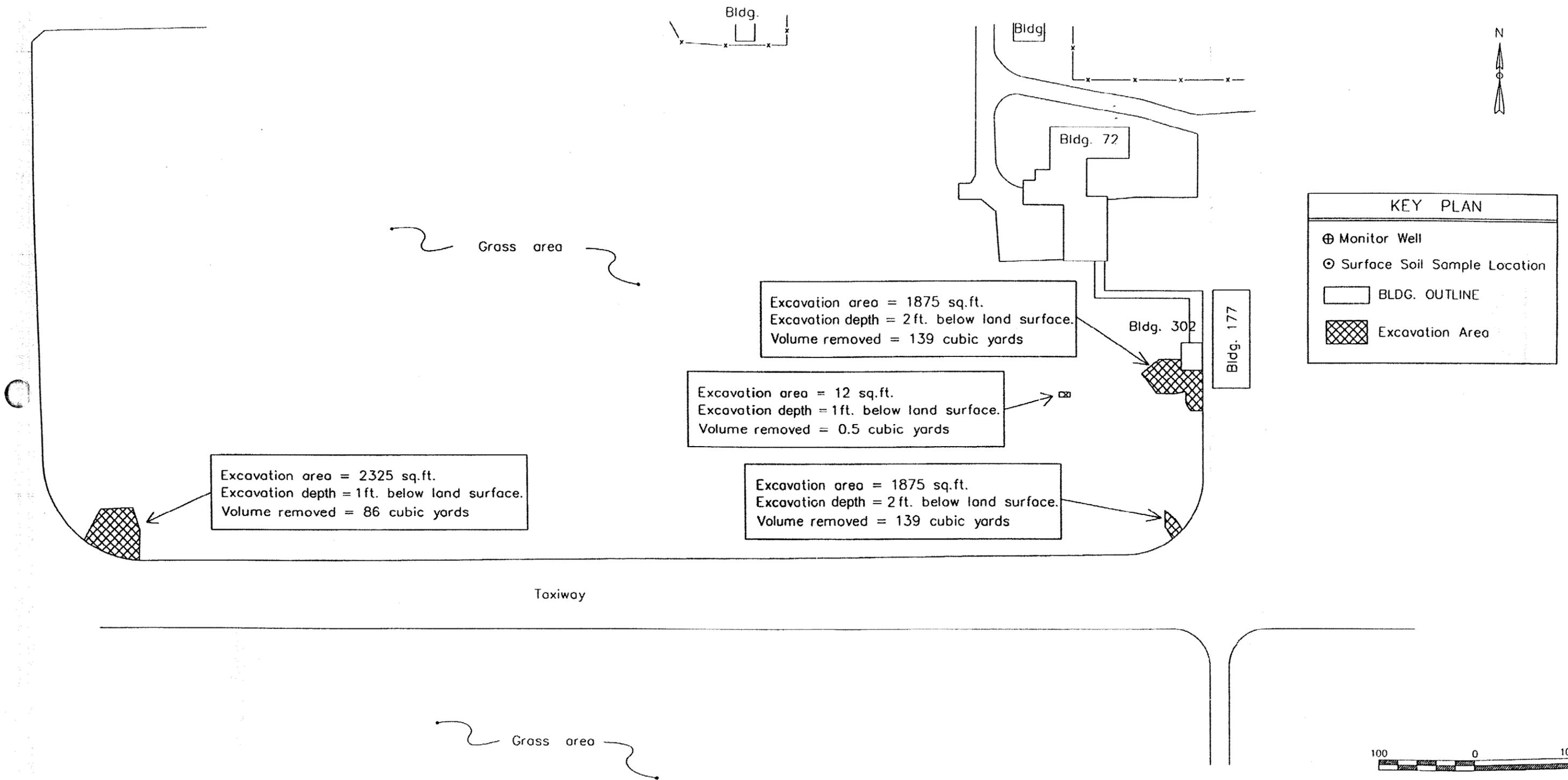


Table 2-1. Copies of the manifests and of the certificate of disposal are presented in Appendices B and C, respectively.

**TABLE 2-1**  
Summary of Soil Disposal Manifests

Date	Truck No.	Company	Manifest Load No.	Manifest No.	Weight (pounds)	Tare (pounds)	Net (pounds)	Net (tons)
8/25/00	55	Beaver Bulk	55	46001	79,380	33,680	45,700	22.85
8/25/00	781	Beaver Bulk	56	46002	76,740	36,200	40,540	20.27
8/25/00	7060	Beaver Bulk	57	46003	67,700	22,880	44,820	22.41
8/25/00	162	Beaver Bulk	58	46004	72,760	27,600	45,160	22.58
8/25/00	194	Beaver Bulk	59	46005	80,240	28,500	51,740	25.87
8/25/00	106	Beaver Bulk	60	46006	77,240	29,980	47,260	23.63
8/25/00	0004	Beaver Bulk	61	46007	78,240	27,780	50,460	25.23
8/25/00	72	Beaver Bulk	62	46008	80,300	29,280	51,020	25.51
8/26/00	70	Beaver Bulk	63	46009	78,960	31,520	47,440	23.72
8/26/00	72	Beaver Bulk	64	46010	82,200	29,280	52,920	26.46
8/26/00	7272	Beaver Bulk	65	46011	78,740	29,840	48,900	24.45
8/26/00	162	Beaver Bulk	66	46012	76,360	27,600	48,760	24.38
8/26/00	152	Beaver Bulk	67	46013	80,140	29,920	50,220	25.11
8/26/00	0006	Beaver Bulk	68	46014	78,480	28,620	49,860	24.93
8/26/00	106	Beaver Bulk	69	46015	75,440	29,980	45,460	22.73
8/26/00	128	Beaver Bulk	70	46016	78,180	27,340	50,840	25.42

### 2.2.3 Backfilling and Site Restoration

The material used to backfill the excavation was certified clean fill and brought in from the North Tank Fuel Farm (NTFF) at NAS Cecil Field. The certified clean soil used to backfill the PSC 46 excavations were taken from NTFF Clean Pile 9. The laboratory analytical report for Clean Pile 9 showing that the material was clean fill is presented in Appendix D. The backfill was compacted using the excavation machine. No compaction tests were required.

Once the excavation area was backfilled, the site was graded and the grass was restored to previous or better condition by hydro-seeding with a mixture of brown millet, rye, bahia grass, fertilizer and mulch.

## **2.3 Confirmatory Sampling and Analysis**

No confirmatory sampling and analyses were performed based on the specifications outlined in the Removal Action Design Package for PSC 46 - Facilities 72 and 177 (TtNUS, 2000).

## 3.0 Conclusions

---

A total of 385.55 tons of petroleum-contaminated soils from PSC 46 were removed and disposed of offsite during this source removal. The soils were excavated to the horizontal excavation limits shown on Figure 1-1 and the vertical excavation limit of 1 to 2 feet bls. The actual vertical and horizontal excavation limits matched the proposed vertical and horizontal excavation limits specified in the Removal Action Design Package for PSC 46 - Facilities 72 and 177 (TtNUS, 2000). No confirmatory sampling and analysis were performed based on the specification outlined in the Removal Action Design Package.

## 4.0 References

---

CH2M HILL Constructors, Inc.; Basewide Work Plan, Revision 01; NAS Cecil Field, Jacksonville, Florida; November 1998.

CH2M HILL Constructors, Inc.; CTO No. 0005 Work Plan Addendum No. 6, Excavation of Mercury-Arsenic, PAH, and/or Petroleum-Contaminated Soil from Various Grey Sites; NAS Cecil Field, Jacksonville, Florida; June 2000.

Tetra Tech NUS, Inc.; Removal Action Design Package for PSC 46 – Facilities 72 and 177; NAS Cecil Field, Jacksonville, Florida; May 2000.

**Appendix A**  
**Project Photographs**



1. View of the PSC 46 Area 1 excavation in progress.



2. View of the PSC 46 Area 3 depth of excavation measurement.



3. View of the completed PSC 46 Area 4 depth of excavation measurement.



4. View of the backfilled and hydro-seeded PSC 46 Area 3 excavation.

## **Appendix B**

### **Copies of Soil Manifests**

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No. **46001**

2. Page 1 of 1

3. Generator's Name and Mailing Address  
 US Navy - NAS Cecil Field  
 6219 Authority Ave., Jacksonville, FL 32221

Load # **55**

4. Generator's Phone ( 904 ) 777-8850

5. Transporter 1 Company Name  
 Beaver Bulk, Inc.

6. US EPA ID Number  
 N / A

A. Transporter's Phone  
 800-232-8371

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
 Broadhurst Environmental, Inc.  
 4800 Broadhurst Rd. W  
 Jessup, GA 31545

10. US EPA ID Number  
 N / A

C. Facility's Phone  
 912-530-7050

11. Waste Shipping Name and Description

12. Containers  
 No. Type

13. Total Quantity

14. Unit Wt/Vol

a. Non RCRA, Non CERCLA, Non DOT Regulated  
 (Petroleum Contaminated Soil)

0.01 D.T

23.09

T

b.

c.

d.

22.85

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location: **80160**  
**PSC-46** **33980**  
**46180**

Truck/Trailer #: **55/80**

Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name  
**DAVID J. KEURZICKI**

Signature  
*David J. Keurzicki*

Month Day Year  
**10 25 00**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name  
**J. MARY WARD**

Signature  
*J. Mary Ward*

Month Day Year  
**10 25 00**

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name  
**08-25-00**

Signature

Month Day Year

19. Discrepancy Indication Space

00160 15 49

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

**Broadhurst**

Printed/Typed Name  
**Brenda**

Signature  
*Brenda*

Month Day Year  
**10 25 00**

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

Environmental Waste Services  
4000 Magnolia Blvd  
Jesup GA 31045  
Phone (912) 530-7000

Weight: 115000  
Date: 20 August 2000  
Vehicle: TASKENV  
Origin: Duval Co., FL  
Reference: T5000001  
Contract: 20007

200009  
TASK ENVIRONMENTAL INC

591 S BOULEVARD  
TAMPA, FL 33606

Inbound

*Handwritten:*  
KSAV  
KSAV of  
From CFEI

00 Gross Weight 79,300.00 LB  
Skid Tare Weight 33,600.00 LB  
Net Weight 45,700.00 LB 22.85 TN

Quantity	Unit	Description	Rate	Total
22.85	TN	Contaminated Soil	\$22.00	\$502.70

Net Amount: \$502.70  
Tendered: \$0.00  
Change:

I certify that I have not disposed of any liquid or hazardous waste. It will not exceed the posted speed limit of 15 mph.

*Earlene*  
Weighmaster: Earlene

*[Signature]*  
Driver

LOAD #55

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No. **76-002**

2. Page 1 of 1

3. Generator's Name and Mailing Address  
 US Navy - NAS Cecil Field  
 6219 Authority Ave., Jacksonville, FL 32201

4. Generator's Phone ( 904 ) 777-8850

Load # **56**

5. Transporter 1 Company Name  
 Beaver Bulk, Inc.

6. US EPA ID Number  
 . . . . . N / A . . . . .

A. Transporter's Phone:  
 800-232-8371

7. Transporter 2 Company Name

8. US EPA ID Number  
 . . . . .

B. Transporter's Phone

9. Designated Facility Name and Site Address  
 Broadhurst Environmental, Inc.  
 4800 Broadhurst Rd. W  
 Jessup, GA 31545

10. US EPA ID Number  
 . . . . . N / A . . . . .

C. Facility's Phone  
 912-530-7050

11. Waste Shipping Name and Description

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

a. Non RCRA, Non CERCLA, Non DOT Regulated (Petroleum Contaminated Soil)

0-0-1 D-T 20.44 T

b.

c.

d.

20.27

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location:  
 PSC 46 77440  
 36560  
 40880

Truck/Trailer #: **81/77**  
 Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name  
 DAVID J. KRZICKI

Signature  
 [Signature] Month Day Year 08 25 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name  
 Frank Boyette

Signature  
 [Signature] Month Day Year 10 25 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name  
 [Signature]

Signature  
 [Signature] Month Day Year

19. Discrepancy Indication Space

77440 15 02

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name  
 Broadhurst  
 T. Renda

Signature  
 [Signature] Month Day Year 10 25 02

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

8000 Davis Road  
#600 Brookhaven, Ga. 30133  
Jesup GA 31545  
Phone (912) 530-2959

115287  
Date: 25 August 1988  
Vehicle: CAPENV  
Origin: Duval Co., FL  
Reference: 7010002  
Contract: 20093

000141  
CAPITAL ENVIRONMENTAL  
3229 GOONE BOULEVARD, SUITE 310

Inbound

VIENNA, VA 22182

00 Gross Weight 70,740.00 LF  
Tare Weight 36,200.00 LF  
Net Weight 34,540.00 LB 20.27 TN

Quantity	Unit	Description	Rate	Total
20.27	TN	Contaminated Soil		

Net Amount:  
Tendered: \$0.00  
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

Earlene  
Weighmaster: Earlene

J. Bryant  
Driver

LOAD # 56

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No. **96003**

2. Page 1 of 1

3. Generator's Name and Mailing Address  
 US Navy - NAS Cecil Field  
 6219 Authority Ave., Jacksonville, FL 32221

4. Generator's Phone (904) 777-8850

Load # **57**

5. Transporter 1 Company Name  
 Beaver Bulk, Inc.

6. US EPA ID Number  
 N/A

A. Transporter's Phone  
 800-232-8371

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
 Broadhurst Environmental, Inc.  
 4800 Broadhurst Rd. W  
 Jessup, GA 31545

10. US EPA ID Number  
 N/A

C. Facility's Phone  
 912-530-7050

11. Waste Shipping Name and Description

12. Containers  
 No. Type

13. Total Quantity

14. Unit Wt/Vol

a. Non RCRA, Non CERCLA, Non DOT Regulated  
 (Petroleum Contaminated Soil)

0.01 D.T

22.24 T

b.

c.

d.

22.41

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location:

DSC-46

67800  
 TARE 23320  
 44480

Truck/Trailer #: **7060**

Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

DAVID J. KRUZIEKI

Signature

*David J. Kruzieki*

Month Day Year

10 25 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

ROBERT G. THOMAS

Signature

*Robert G. Thomas*

Month Day Year

10 25 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

07500 10 05

20. Facility Owner or Operator: Certification of Receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Brenda

Signature

*Brenda*

Month Day Year

18 25 05

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

Capital Environmental  
3900 Broadhurst Rd #2  
Jesup GA 31545  
Phone (912) 538-7838

Ticket: 115065  
Date/Time Iss: 20 August 2008  
Vehicle: CAENV  
Origin: Duval Co., FL  
Reference: 7060\*\*003  
Contract: 20096

000141  
CAPITAL ENVIRONMENTAL  
3229 BOONE BOULEVARD, SUITE 210  
VIENNA, VA 22182

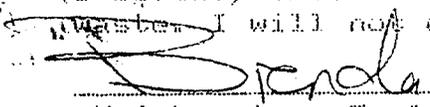
Inbound

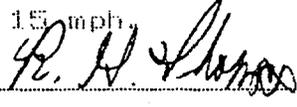
00 Gross Weight 67,700.00 LB  
Tare Weight 22,880.00 LB  
Net Weight 44,820.00 LB 22.41 TN

Quantity	Unit	Description	Rate	Total
22.41	TN	Contaminated Soil		

Net Amount:  
Tendered: \$0.00  
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

  
Weighmaster: Earlene

  
Driver

LOAD #57

**NON-HAZARDOUS  
WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No. **76004**

2. Page 1 of 1

3. Generator's Name and Mailing Address  
US Navy - NAS Cecil Field  
6219 Authority Ave., Jacksonville, FL 32201

4. Generator's Phone ( 904 ) 777-8850

Lead # **58**

5. Transporter 1 Company Name  
Beaver Bulk, Inc.

6. US EPA ID Number  
N / A

A. Transporter's Phone  
800-232-2371

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
Broadhurst Environmental, Inc.  
4800 Broadhurst Rd. W  
Jessup, GA 31545

10. US EPA ID Number  
N / A

C. Facility's Phone  
512-530-7050

11. Waste Shipping Name and Description

12. Containers  
No. Type

13. Total Quantity

14. Unit Wt/Vol

a. Non RCRA, Non CERCLA, Non DOT Regulated  
(Petroleum Contaminated Soil)

0.01 D.T

21.7

T

b.

22.58

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location:  
PSC-46

72800  
29380  
43420

Truck/Trailer #: **L-162-4625**  
Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name  
**DAVID J. KRUZICKI**

Signature  
*David J. Kruzicki*

Month Day Year  
**08 25 00**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name  
**D. Worthey**

Signature  
*D. Worthey*

Month Day Year  
**08 25 00**

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name  
**Carlene**

Signature  
*Carlene*

Month Day Year  
**18 25 00**

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

Capital Environmental  
3885 Peachtree Rd NE  
Tosup GA 31545  
Phone (912) 530-7000

Ticket: 11540  
Date Time In: 25 August 2000 2:13 pm  
Vehicle: CAPENV  
Origin: Duval Co., FL  
Reference: 162\*\*46004  
Contract: 20090

000141  
CAPITAL ENVIRONMENTAL  
8229 BOONE BOULEVARD, SUITE 310  
VIENNA, VA 22182

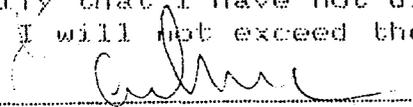
Inbound

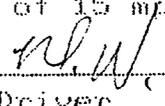
00 Gross Weight 72,760.00 LB  
Tare Weight 27,600.00 LB  
Net Weight 45,160.00 LB 22.58 TH

Quantity	Unit	Description	Rate	Total
22.58	TH	Contaminated Soil		

Net Amount: \$  
Tendered: \$0.00  
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

  
Weighmaster: Earlene

  
Driver

LOAD #58

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No. **45005**

2. Page 1 of 1

3. Generator's Name and Mailing Address  
 US Navy - NAS Cecil Field  
 6219 Authority Ave., Jacksonville, FL 32221

4. Generator's Phone ( 904 ) 777-8850

Load # **59**

5. Transporter 1 Company Name  
 Beaver Bulk, Inc.

6. US EPA ID Number  
 N / A

A. Transporter's Phone  
 800-232-8371

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
 Broadhurst Environmental, Inc.  
 4800 Broadhurst Rd. W  
 Jessup, GA 31545

10. US EPA ID Number  
 N / A

C. Facility's Phone  
 912-530-7050

11. Waste Shipping Name and Description

12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
--------------------	--------------------	-----------------

a. Non RCRA, Non CERCLA, Non DOT Regulated  
 (Petroleum Contaminated Soil)

0.0.1	D.T	25.32 T
-------	-----	------------

b.

c.

d.

		25.8.7
--	--	--------

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location:

**PSC-46**

**80020**  
**L194-29380**  
**50640**

Truck/Trailer #: **L-194-9301**

Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

**DAVID J. KRZICKI**

Signature

*David J. Krzicki*

Month Day Year  
**05 25 00**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

**WILLIAM R. CASON**

Signature

*William R. Cason*

Month Day Year  
**08 25 00**

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

**03-25-00**

Signature

Month Day Year

19. Discrepancy Indication Space

**80020 16 GR**

20. Facility Owner or Operator: Certification of receipt of waste material covered by this manifest except as noted in Item 19.

Printed/Typed Name

**Carlene**

Signature

*Carlene*

Month Day Year  
**08 25 00**

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

Branch of Environmental  
1488 Beadman Rd  
Jesup GA 31545  
Phone (912) 539-7056

Invoice 119387  
Date/Time In 25 Aug 88 2026 2:21 pm  
Vehicle: CAPENV  
Origin: Duval Co., FL  
Reference: 134\*\*46005  
Contract: 20098

000141  
CAPITAL ENVIRONMENTAL  
8229 BOONE BOULEVARD, SUITE 310  
VIENNA, VA 22182

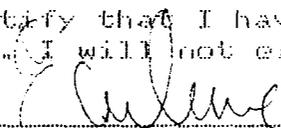
Inbound

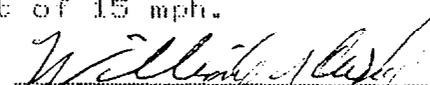
80 Gross Weight 80,240.00 LB  
Tare Weight 28,500.00 LB  
Net Weight 51,740.00 LB 25.87 TN

Quantity	Unit	Description	Rate	Total
25.87	TN	Contaminated Soil		

Net Amount:  
Tendered: \$0.00  
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

  
Weighmaster: Earlene

  
Driver

LOAD #59

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No. **48056**

2. Page 1 of 1

3. Generator's Name and Mailing Address  
 US Navy - NAS Cecil Field  
 6219 Authority Ave., Jacksonville, FL 32201

Load # **60**

4. Generator's Phone ( 904 ) 777-8850

5. Transporter 1 Company Name  
 Beaver Bulk, Inc.

6. US EPA ID Number  
 N / A

A. Transporter's Phone  
 800-392-8371

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
 Broadhurst Environmental, Inc.  
 4800 Broadhurst Rd. W  
 Jessup, GA 31545

10. US EPA ID Number  
 N / A

C. Facility's Phone  
 912-530-7050

11. Waste Shipping Name and Description

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

a. Non RCRA, Non CERCLA, Non DOT Regulated  
 (Petroleum Contaminated Soil)

0-0.1 D-T 23.44 T

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non RCRA, Non CERCLA, Non DOT Regulated (Petroleum Contaminated Soil)	0-0.1	D-T	23.44	T
b.			23.63	
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location:  
 PSC-46  
 77460  
 TAPE 30580  
 46880

Truck/Trailer #: **106A-106-~~33~~**  
 Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: **DAVID J. Kruczicki** Signature: *[Signature]* Month Day Year: **08 25 00**

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name: **Joseph Lee** Signature: *[Signature]* Month Day Year: **08 25 00**

18. Transporter 2 Acknowledgement of Receipt of Materials  
 Printed/Typed Name: Signature: Month Day Year:

19. Discrepancy Indication Space

77460 is in

20. Facility Owner or Operator Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: **Brenda** Signature: *[Signature]* Month Day Year: **18 25 00**

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

Capital Environmental  
2890 Broadhurst Rd W  
Jesup GA 31545  
Phone (912) 530-7000

Bill #: 115318  
Date/Tone To: 25 August 2006 3:00 pm  
Vehicle: CAPENV  
Origin: Deval Co., FL  
Reference: 106\*\*4600e  
Contract: 20090

600141  
CAPITAL ENVIRONMENTAL  
6229 BOONE BOULEVARD, SUITE 310  
VIENNA, VA 22182

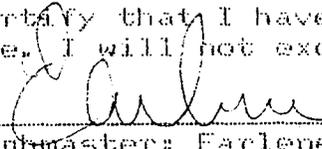
Inbound -

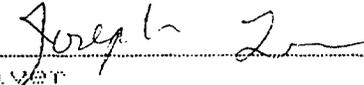
00 Gross Weight 77,240.00 LB  
Tare Weight 29,980.00 LB  
Net Weight 47,260.00 LB 23.63 TN

Quantity	Unit	Description	Rate	Total
23.63	TN	Contaminated Soil		

Net Amount:  
Tendered: \$0.00  
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

  
Weighmaster: Earlene

  
Driver

LOAD #60

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No. 41557

2. Page 1 of 1

3. Generator's Name and Mailing Address  
 US Navy - NAS Cecil Field  
 6219 Authority Ave., Jacksonville, FL 32221

4. Generator's Phone ( 904 ) 777-8850

load # 61

5. Transporter 1 Company Name  
 Beaver Bulk, Inc.

6. US EPA ID Number  
 N / A

A. Transporter's Phone  
 800-232-8371

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
 Broadhurst Environmental, Inc.  
 4800 Broadhurst Rd. W  
 Jessup, GA 31545

10. US EPA ID Number  
 N / A

C. Facility's Phone  
 912-530-7050

11. Waste Shipping Name and Description

12. Containers  
 No. Type

13. Total Quantity

14. Unit Wt/Vol

a. Non RCRA, Non CERCLA, Non DOT Regulated  
 (Petroleum Contaminated Soil)

0.01 D.T

24.63

T

b.

25.23

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location:

PSC-46

TAKE 77260  
 28000  
 49260

Truck/Trailer #: 0004/0001

Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

DAVID J. KAWICKI

Signature

*David Kawicki*

Month Day Year

08 25 00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Willie Ivey

Signature

*Willie Ivey*

Month Day Year

10 8 00

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

08-26-00

Signature

Month Day Year

19. Discrepancy Indication Space

77260 lb SR

20. Facility Owner or Operator Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Carlene

Signature

*Carlene*

Month Day Year

18 12 00

TRANSPORTER #2

GENERATOR

TRANSPORTER

FACILITY

Environmental Engineering  
4400 Peachtree Road  
Jaspur GA 30545  
Phone (912) 539-7900

Address: 117337  
Date: 21 August 1986 4:56 pm  
Vehicle: CAPENV  
Origin: Duval Co., Fl.  
Reference: 8804\*\*46007  
Contract: 28090

400111  
CAPITAL ENVIRONMENTAL  
4229 BOONE BOULEVARD, SUITE 310

Inbound -

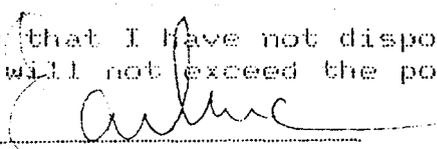
UTENHO, US 22102

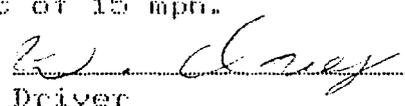
00 Gross Weight 78,240.00 LB  
Tare Weight 27,780.00 LB  
Net Weight 50,460.00 LB 25.23 TN

Quantity	Unit	Description	Rate	Total
25.23	TN	Contaminated Soil		

Net Amount:  
Tendered: \$0.00  
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

  
Weighmaster: Earlene

  
Driver

LOAD #61

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

46  
Manifest Document No. P57208

2. Page 1 of 1

3. Generator's Name and Mailing Address  
US Navy - MAS Cecil Field  
6219 Authority Ave., Jacksonville, FL 32221

4. Generator's Phone ( 904 ) 777-8850

Load # 62

5. Transporter 1 Company Name  
Beaver Bulk, Inc.

6. US EPA ID Number  
N/A

A. Transporter's Phone  
800-232-8371

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
Broadhurst Environmental, Inc.  
4800 Broadhurst Rd. W  
Jessup, GA 31545

10. US EPA ID Number  
N/A

C. Facility's Phone  
912-530-7050

11. Waste Shipping Name and Description

12. Containers  
No. Type

13. Total Quantity

14. Unit Wt/Vol

a. Non RCRA, Non CERCLA, Non DOT Regulated  
(Petroleum Contaminated Soil)

0.0.1

D.T

25.2

T

b.

c.

25.5

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location:

PSC-46

79580  
~~209340~~ 29340  
50240

Truck/Trailer #: L-72/9494  
Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

DAVID J. KAVZIACKI

Signature

*David Kavziacki*

Month Day Year  
10 25 10

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Gennie Luck

Signature

*Gennie Luck*

Month Day Year  
10 25 10

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

None

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Earlene L.

Signature

*Earlene Lambeth*

Month Day Year  
8 05 10

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

Address: 1800 E. ...  
Jesup GA 31545  
Phone (912) 570-7050

Vehicle: 115739  
Date: 25 August 2000  
Vehicle: CAPENV  
Origin: Duval Co., FL  
Reference: 72\*\*46008  
Contract: 20090

000141  
CAPITAL ENVIRONMENTAL  
3229 SCONE BOULEVARD, SUITE 310  
STENHO, VA 22182

Inbound

00 Gross Weight 50,380.00 LB  
Tare Weight 29,289.00 LB  
Net Weight 21,091.00 LB 25.51 TN

Quantity	Unit	Description	Rate	Total
25.51	TN	Contaminated Soil		

Net Amount:  
Tendered: \$0.00  
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

*Earlene*  
Weighmaster: Earlene

*Samie Lusk*  
Driver

LOAD # 62

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

46  
Manifest Document No. PSC-46

2. Page 1 of 1

3. Generator's Name and Mailing Address  
US Navy - NAS Cecil Field  
6219 Authority Ave., Jacksonville, FL 32221

4. Generator's Phone ( 904 ) 777-8850

Load # 63

5. Transporter 1 Company Name  
Beaver Bulk, Inc.

6. US EPA ID Number  
N / A

A. Transporter's Phone  
800-232-8371

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
Broadhurst Environmental, Inc.  
4800 Broadhurst Rd. W  
Jessup, GA 31545

10. US EPA ID Number  
N / A

C. Facility's Phone  
912-530-7050

11. Waste Shipping Name and Description

12. Containers  
No. Type

13. Total Quantity

14. Unit Wt/Vol

a. Non RCRA, Non CERCLA, Non DOT Regulated  
(Petroleum Contaminated Soil)

0.0.1 D.T

23.87

T

b.

23.72

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location:

PSC-46 79160  
31420  
47740

Truck/Trailer #: S-70/T

Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

DAVID J. KRUZICKI

Signature

David J. Kruzicki

Month Day Year

08 | 28 | 00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

JACK GAINES

Signature

Jack Gaines

Month Day Year

08 | 28 | 00

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

08-28-00

Signature

Month Day Year

.

19. Discrepancy Indication Space

79160 25 00

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Carlene

Signature

Carlene

Month Day Year

18 | 28 | 00

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

Capital Environmental Services  
1800 Broadhurst Rd W  
Jessup GA 31545  
Phone (912) 530-7000

Invoice: 100423  
Date: 28 August 2000 11:58 am  
Vehicle: CAPENV  
Origin: Duval Co., FL  
Reference: 570\*\*46109  
Contract: 20000

000141  
CAPITAL ENVIRONMENTAL  
6229 BOONE BOULEVARD, SUITE 310  
VIENNA, VA 22182

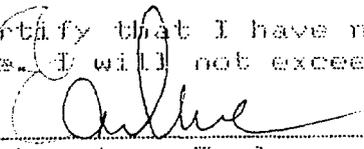
Inbound

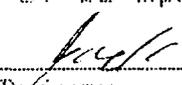
00 Gross Weight 76,960.00 LB  
Tare Weight 31,520.00 LB  
Net Weight 47,440.00 LB 23.72 TN

Quantity	Unit	Description	Rate	Total
23.72	TN	Contaminated Soil		

Net Amount: ---  
Tendered: \$0.00  
Change: ---

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

  
Weighmaster: Earlene

  
Driver

LOAD #63

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No. 46070

2. Page 1 of 1

3. Generator's Name and Mailing Address  
 US Navy - NAS Cecil Field  
 6219 Authority Ave., Jacksonville, FL 32221

4. Generator's Phone ( 904 ) 777-8950

Lead # 64

5. Transporter 1 Company Name  
 Beaver Bulk, Inc.

6. US EPA ID Number  
 . . . . . N / A . . . . .

A. Transporter's Phone  
 900-232-8371

7. Transporter 2 Company Name

8. US EPA ID Number  
 . . . . .

B. Transporter's Phone

9. Designated Facility Name and Site Address  
 Broadhurst Environmental, Inc.  
 4800 Broadhurst Rd. W  
 Jessup, GA 31545

10. US EPA ID Number  
 . . . . . N / A . . . . .

C. Facility's Phone  
 912-530-7050

11. Waste Shipping Name and Description

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

a. Non RCRA, Non CERCLA, Non DOT Regulated  
 (Petroleum Contaminated Soil)

0.01 D.T 24.62 T

b.

c.

d.

26.46

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location: PSC-46 78580  
29340  
49240

Truck/Trailer #: 4-72/5494  
 Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name DAVID J. KEURICKI

Signature David J. Keuricki

Month Day Year 08 28 00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name Gennie Luck

Signature Gennie Luck

Month Day Year 08 28 00

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

78580 is NP

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Broadhurst

Printed/Typed Name Carlene

Signature Carlene

Month Day Year 08 28 00

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

Broadman Environmental  
1800 Broadman St. N.W.  
Jesup GA 31545  
Phone (912) 530 7050

Invoice: 115410  
Date/Time In: 28 August 2000 10:00 am  
Vehicle: CAPENV  
Origin: Duval Co., FL  
Reference: 720046010  
Contract: 20000

000141  
CAPITAL ENVIRONMENTAL  
8229 BOONE BOULEVARD, SUITE 310

Inbound

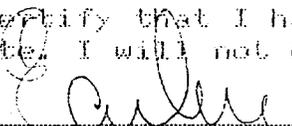
VIENNA, VA 22182

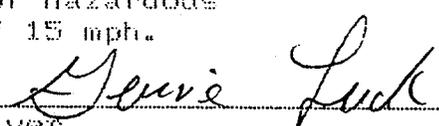
00 Gross Weight 82,200.00 LB  
Tare Weight 29,280.00 LB  
Net Weight 52,920.00 LB 26.46 TN

Quantity	Unit	Description	Rate	Total
26.46	TN	Contaminated Soil		

Net Amount:  
Tendered: \$0.00  
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

  
Weighmaster: Earlene

  
Driver

LOAD # 64

**NON-HAZARDOUS  
WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No. 4-6-01-1

2. Page 1 of 1

3. Generator's Name and Mailing Address  
US Navy - NAS Cecil Field  
6219 Authority Ave., Jacksonville, FL 32221

Load # 65

4. Generator's Phone ( 904 ) 777-8850

5. Transporter 1 Company Name  
Beaver Bulk, Inc.

6. US EPA ID Number  
N / A

A. Transporter's Phone  
800-232-8371

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
Broadhurst Environmental, Inc.  
4800 Broadhurst Rd. W  
Jessup, GA 31545

10. US EPA ID Number  
N / A

C. Facility's Phone  
912-530-7050

11. Waste Shipping Name and Description

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

a. Non RCRA, Non CERCLA, Non DOT Regulated  
(Petroleum Contaminated Soil)

0.01 DOT 24.53 T

b.				
c.			24.45	
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location:

PS C-46

78680  
29620  
49060

Truck/Trailer #: 9272-7272

Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name  
DAVID J. KRZICKI

Signature [Signature] Month Day Year 08 28 00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name  
Steve Brown

Signature [Signature] Month Day Year 08 28 00

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name  
[Blank]

Signature [Blank] Month Day Year [Blank]

19. Discrepancy Indication Space

78680

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Broadhurst

Printed/Typed Name  
Carlene

Signature [Signature] Month Day Year 18 12 00

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

12-15-85  
12-15-85  
12-15-85

12-15-85  
12-15-85  
12-15-85

12-15-85  
12-15-85  
12-15-85

Quantity	Unit	Description	Rate	Total
24.00	EA	Unlabeled Straw		

Net Amounts  
Tendered: 70.00  
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

Alve  
Weightman-Earlone

S. J. B.  
Driver

LOAD #65

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No. 46012

2. Page 1 of 1

3. Generator's Name and Mailing Address  
 US Navy - NAS Cecil Field  
 6219 Authority Ave., Jacksonville, FL 32221

Load # 66

4. Generator's Phone ( 904 ) 777-8850

5. Transporter 1 Company Name  
 Beaver Bulk, Inc.

6. US EPA ID Number  
 N / A

A. Transporter's Phone  
 800-232-8371

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
 Broadhurst Environmental, Inc.  
 4800 Broadhurst Rd. W  
 Jessup, GA 31545

10. US EPA ID Number  
 N / A

C. Facility's Phone  
 912-530-7050

11. Waste Shipping Name and Description

12. Containers  
 No. Type

13. Total Quantity

14. Unit Wt/Vol

a. Non RCRA, Non CERCLA, Non DOT Regulated  
 (Petroleum Contaminated Soil)

0.0.1

D.T

23.97

T

b.

24.38

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location:  
 PSL-46

76600  
 28600  
 47940

Truck/Trailer #: L-162-L162T

Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

DAVID J. KAVICKI

Signature

David J. Kavicki

Month Day Year  
10 28 00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

D. Worthy

Signature

D. Worthy

Month Day Year  
10 28 00

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Carlene

Signature

Carlene

Month Day Year  
10 28 00

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

Capital Environmental  
1000 Broadhurst Rd W  
Jesup GA 31545  
Phone (912) 530-7050

Trailer: 1-7405  
Date/Time: 20 August 2000  
Vehicle: CAPENV  
Origin: Duval Co., FL  
Reference: 162\*\*46812  
Contract: 20000

890141  
CAPITAL ENVIRONMENTAL  
8229 BOONE BOULEVARD, SUITE 319

Inbound -

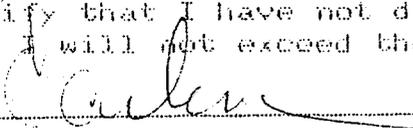
VIENNA, VA 22182

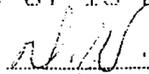
00 Gross Weight 76,360.00 LB  
Tare Weight 27,600.00 LB  
Net Weight 48,760.00 LB 24.38 TH

Quantity	Unit	Description	Rate	Total
24.38	TH	Contaminated Soil		

Net Amount:  
Tendered: \$0.00  
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

  
Weighmaster: Earlene

  
Driver

LOAD # 66

**NON-HAZARDOUS  
WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No. 41-013

2. Page 1 of 1

3. Generator's Name and Mailing Address  
US Navy - NAS Cecil Field  
6219 Authority Ave., Jacksonville, FL 32221

4. Generator's Phone ( 904 ) 777-8850

Load # 67

5. Transporter 1 Company Name  
Beaver Bulk, Inc.

6. US EPA ID Number  
N / A

A. Transporter's Phone  
800-232-8371

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
Broadhurst Environmental, Inc.  
4800 Broadhurst Rd. W  
Jessup, GA 31545

10. US EPA ID Number  
N / A

C. Facility's Phone  
912-530-7050

11. Waste Shipping Name and Description

12. Containers  
No. Type

13. Total Quantity

14. Unit Wt/Vol

a. Non RCRA, Non CERCLA, Non DOT Regulated  
(Petroleum Contaminated Soil)

0.01 D.T

25.15

T

b.

25.11

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location:

PSC-46

80220  
29920  
50300

Truck/Trailer #: L-152-7001

Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

DAVID J. KAUZICKI

Signature

*David J. Kauzicki*

Month Day Year  
10 12 8100

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Robert h Padgett Sr.

Signature

*Robert h Padgett Sr.*

Month Day Year  
10 12 8100

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

03-28-00

Signature

Month Day Year

19. Discrepancy Indication Space

80220 1b GR

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Carlene

Signature

*Carlene*

Month Day Year  
10 28 00

TRANSPORTER #2

GENERATOR

TRANSPORTER

FACILITY

Capital Environmental  
1400 Broadhurst Rd W  
Jessup GA 31545  
Phone (912) 530-7050

Time: 1:00  
Date: August 2000  
Vehicle: LAPENV  
Origin: Duval Co., FL  
Reference: 152\*\*46143  
Contract: 20050

000141  
CAPITAL ENVIRONMENTAL  
6229 BOONE BOULEVARD, SUITE 310  
VIENNA, VA 22182

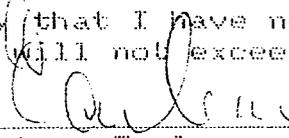
Tabloid

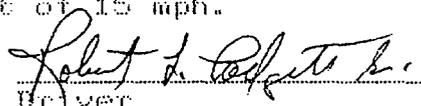
00 Gross Weight 80,140.00 LB  
Tare Weight 29,920.00 LB  
Net Weight 50,220.00 LB 25.11 TN

Quantity	Unit	Description	Rate	Total
25.11	TN	Contaminated Soil		

Net Amount:  
Tendered: \$0.00  
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

  
Weighmaster: Earlene

  
Driver

LOAD #67

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No. **456019**

2. Page 1 of 1

3. Generator's Name and Mailing Address  
 US Navy - NAS Cecil Field  
 5219 Authority Ave., Jacksonville, FL 32211

Load # **68**

4. Generator's Phone ( 904 ) 777-8850

5. Transporter 1 Company Name  
 Beaver Bulk, Inc.

6. US EPA ID Number  
 N / A

A. Transporter's Phone  
 800-232-8371

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
 Broadhurst Environmental, Inc.  
 4800 Broadhurst Rd. W  
 Jessup, GA 31545

10. US EPA ID Number  
 N / A

C. Facility's Phone  
 913-530-7050

11. Waste Shipping Name and Description

12. Containers	13. Total Quantity	14. Unit Wt/Vol

a. Non RCRA, Non CERCLA, Non DOT Regulated  
 (Petroleum Contaminated Soil)

0.0.1	D.T	24.9	T
-------	-----	------	---

b. 249.3

c. 249.3

d. 249.3

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location:  
 PSI-46      78840  
                  29040  
                  49800

Truck/Trailer #: **1006-003**  
 Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name <b>DAVID J. KAVIICK</b>	Signature <i>David J. Kavick</i>	Month Day Year <b>08 28 00</b>
---	-------------------------------------	-----------------------------------

17. Transporter 1 Acknowledgement of Receipt of Materials	Printed/Typed Name <b>George CAATT</b>	Signature <i>George Caatt</i>	Month Day Year <b>08 28 00</b>
---	---	----------------------------------	-----------------------------------

18. Transporter 2 Acknowledgement of Receipt of Materials	Printed/Typed Name	Signature	Month Day Year
---	--------------------	-----------	----------------

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of waste materials covered by this manifest except as noted in Item 19.	Printed/Typed Name <b>Carlene</b>	Signature <i>Carlene</i>	Month Day Year <b>18 28 00</b>
---	--------------------------------------	-----------------------------	-----------------------------------

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

Environmental Services  
1000 Environmental Pk W  
Jalapa VA 21545  
Phone (912) 336-7956

Invoice: 21879  
Date: 10/18/88  
Vehicle: CAPENV  
Origin: Duval Co., FL  
Reference: 0005\*\*46014  
Contract: 20000

000141  
CAPITAL ENVIRONMENTAL  
2229 BOONE BOULEVARD, SUITE 310  
VIENNA, VA 22182

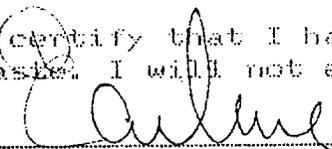
Inbound

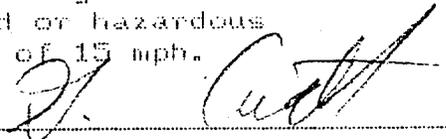
00 Gross Weight 76,450.00 LB  
Tare Weight 28,620.00 LB  
Net Weight 49,860.00 LB 24.93 TN

Quantity	Unit	Description	Rate	Total
24.93	TN	Contaminated Soil		

Net Amount:  
Tendered: \$0.00  
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

  
Weighmaster: Earlene

  
Driver

Load #68

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No. **46-015**

2. Page 1 of 1

3. Generator's Name and Mailing Address  
 US Navy - NAS Cecil Field  
 6219 Authority Ave., Jacksonville, FL 32221

4. Generator's Phone ( 904 ) 777-8850

Load # **69**

5. Transporter 1 Company Name  
 Beaver Bulk, Inc.

6. US EPA ID Number  
 N / A

A. Transporter's Phone  
 800-232-8371

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
 Broadhurst Environmental, Inc.  
 4800 Broadhurst Rd. W  
 Jessup, GA 31545

10. US EPA ID Number  
 N / A

C. Facility's Phone  
 912-530-7050

11. Waste Shipping Name and Description  
 a. Non RCRA, Non CERCLA, Non DOT Regulated  
 (Petroleum Contaminated Soil)

12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
0.01	D-T	20.3 22.55	T

12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
		22.23	

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location:  
 PSC-46

~~75680~~ 75680  
~~3580~~ 30580  
~~40600~~ 45100

Truck/Trailer #: 106-1068  
 Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name  
 DAVID J. MAZICKI

Signature  
 [Signature] Month Day Year  
 08 28 00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name  
 Joseph Lee

Signature  
 [Signature] Month Day Year  
 08 28 00

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature  
 Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Broadhurst  
 Printed/Typed Name  
 Carlene

Signature  
 [Signature] Month Day Year  
 18 11 00

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

Proad Environmental  
4800 Broadcast Rd W  
Jesup GA 31545  
Phone (912) 530-7050

Ticket: 117485  
Date/Time In: 28 August 2000  
Vehicle: CAPENV  
Origin: Duval Co., FL  
Reference: BK106\*\*46015  
Contract: 20090

000141  
CAPITAL ENVIRONMENTAL  
6229 BOONE BOULEVARD, SUITE 310  
VIENNA, VA 22187

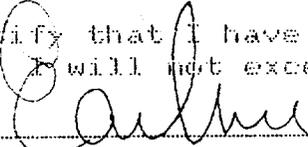
Inbound -

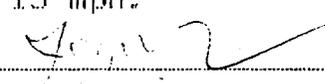
00 Gross Weight 75,440.00 LB  
Tare Weight 29,980.00 LB  
Net Weight 45,460.00 LB 22.73 TN

Quantity	Unit	Description	Rate	Total
22.73	TN	Contaminated Soil		

Net Amount:  
Tendered: \$0.00  
Changes:

I certify that I have not disposed of any liquid or hazardous waste. It will not exceed the posted speed limit of 15 mph.

  
Weighmaster: Earlene

  
Driver

LOAD #69

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No. 400018

2. Page 1 of 1

3. Generator's Name and Mailing Address  
**US Navy - NAS Cecil Field**  
 6219 Authority Ave., Jacksonville, FL 32221

Load # 70

4. Generator's Phone ( 904 ) 777-8850

5. Transporter 1 Company Name  
**Beaver Bulk, Inc.**

6. US EPA ID Number  
N / A

A. Transporter's Phone  
800-232-8371

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
**Broadhurst Environmental, Inc.**  
 4800 Broadhurst Rd. W  
 Jessup, GA 31545

10. US EPA ID Number  
N / A

C. Facility's Phone  
912-530-7050

11. Waste Shipping Name and Description

12. Containers  
 No. Type

13. Total Quantity

14. Unit Wt/Vol

a. **Non RCRA, Non CERCLA, Non DOT Regulated (Petroleum Contaminated Soil)**

0.01 D.T

25.00 T

b. 25.42

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Site Location:  
PSC-46 78440  
280'10  
50400

Truck/Trailer #: L-128/7707  
 Approval #20090

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name  
DAVID J. KAVICKI

Signature  
*David J. Kavicki*

Month Day Year  
08/28/00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name  
Buddy Hurst

Signature  
*Buddy Hurst*

Month Day Year  
08/28/00

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name  
08-29-00

Signature

Month Day Year  
08/29/00

19. Discrepancy Indication Space

78440 15 GP

20. Facility Owner or Operator Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Broadhurst Env

Printed/Typed Name  
Carlene Lambeth Carlene L

Signature  
*Carlene Lambeth*

Month Day Year  
08/28/00

TRANSPORTER #2

GENERATOR

TRANSPORTER

FACILITY

Capital Environmental  
1806 Broadhurst Rd W  
Jesup GA 31545  
Phone (912) 530-7050

Trailer: 411491  
Date/Time In: 28 August 2000  
Vehicle: CRPENV  
Origin: Duval Co., FL  
Reference: 12000046016  
Contract: 20000

080141  
CAPITAL ENVIRONMENTAL  
8229 ROONE BOULEVARD, SUITE 310  
VIENNA, VA 22182

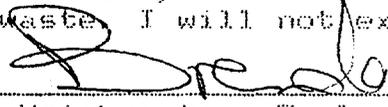
Inbound -

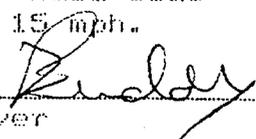
00 Gross Weight 73,100.00 LB  
Tare Weight 27,340.00 LB  
Net Weight 50,840.00 LB 25.42 TN

Quantity	Unit	Description	Rate	Total
25.42	TN	Contaminated Soil		

Net Amount:  
Tendered: \$0.00  
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

  
Weighmaster: Earlene

  
Driver

LOAD #70

**Appendix C**

**Certificate of Disposal**



CERTIFICATE OF DISPOSAL

This letter is to certify that all wastes received from Capital Environmental, Inc. on behalf of CCI/US Navy on the following dates were landfilled in accordance with all state and federal regulations.

Load Number	Tonnage	Dates
1-70	1675.13	8/15/00-8/28/00

Disposal Method was D-81 (Subtitle D Landfill)

BROADHURST ENVIRONMENTAL, INC.

Donna Davis-Harrell                      9/15/00  
Donna Davis-Harrell                      Date

## Appendix D

### Clean Fill Material Analytical Report

When is analyzed for the  
Disposal characterization?

When are metals?  
pesticides / PCB  
results for the  
toxicity -

What is criteria  
for toxic fill?

# VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

002-CP9-S-0816-00

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. \_\_\_\_\_ SAS No: \_\_\_\_\_ SDG No.: 2007284

Matrix: SOIL Lab Sample ID 200728402 Lab File ID 28402.D

Sample wt/vol: 5.12 Units: G. Date Received: 8/17/00

Concentrated Extract Volume: \_\_\_\_\_ Date Extracted: \_\_\_\_\_

Level:(low/med) LOW Date Analyzed: 8/17/00 Time: 3:42 PM

PercentSolids: 91.56 decanted: \_\_\_\_\_ Dilution Factor: 1

Extraction: PURGETRAP Station ID Clean Pile #9 Method: 8260

GPC Cleanup : ( Y/N ) \_\_\_\_\_ pH: \_\_\_\_\_

GC Column: DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: *ug/Kg*

CAS NO.	ANALYTE	RESULT	Q
74-87-3	Chloromethane	11	U
75-01-4	Vinyl chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-35-4	1,1-Dichloroethene	11	U
75-15-0	Carbon disulfide	11	U
75-09-2	Methylene chloride	11	U
156-60-5	Trans-1,2-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
67-64-1	Acetone	11	U
156-59-2	Cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone (MEK)	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	0.3	J
79-01-6	Trichloroethene	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	Cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	11	U
10061-02-6	Trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethylene	11	U
591-78-6	2-Hexanone	11	U

Form I

8/99 Rev.

# VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.  
002-CP9-S-0816-00

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. \_\_\_\_\_ SAS No: \_\_\_\_\_ SDG No.: 2007284

Matrix: SOIL Lab Sample ID 200728402 Lab File ID 28402.D

Sample wt/vol: 5.12 Units: G Date Received: 8/17/00

Concentrated Extract Volume: \_\_\_\_\_ Date Extracted: \_\_\_\_\_

Level:(low/med) LOW Date Analyzed: 8/17/00 Time: 3:42 PM

PercentSolids: 91.56 decanted : \_\_\_\_\_ Dilution Factor: 1

Extraction: PURGETRAP Station ID Clean Pile #9 Method: 8260

GPC Cleanup : ( Y/N ) \_\_\_\_\_ pH: \_\_\_\_\_

GC Column: DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
124-48-1	Dibromochloromethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
511-39-00	M,P-Xylene	11	U
95-47-6	O-Xylene	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
1330-20-7	Xylenes (total)	11	U

# PAH ORGANIC ANALYSIS DATA SHEET

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field EPA Sample No. CP9-S-0816-00  
 Lab Code: PEL Case No. \_\_\_\_\_ SAS No: \_\_\_\_\_ SDG No.: 2007284  
 Matrix: SOIL Lab Sample ID 200728402 Lab File ID 284-2.D  
 Sample wt/vol: 33.3 Units: G. Date Received: 8/17/00  
 Concentrated Extract Volume: 1 Date Extracted: 8/18/00  
 Level:(low/med) LOW Date Analyzed: 8/20/00 Time: 11:16 PM  
 PercentSolids: 91.56 decanted : \_\_\_\_\_ Dilution Factor: 1  
 Extraction: SONC Station ID Clean Pile #9 Method: 8310  
 GPC Cleanup : (Y/N) N pH: \_\_\_\_\_  
 GC Column: Vydac 201TP54 ID: 4.6 (mm)  
 CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	1230	U
208-96-8	Acenaphthylene	9.8	U
90-12-0	1-Methylnaphthalene	9.8	U
91-57-6	2-Methylnaphthalene	21	
83-32-9	Acenaphthene	51	
86-73-7	Fluorene	9.8	U
85-01-8	Phenanthrene	7.1	J
120-12-7	Anthracene	9.8	U
206-44-0	Fluoranthene	9.8	U
129-00-0	Pyrene	37	
56-55-3	Benzo(a)anthracene	17	J
218-01-9	Chrysene	46	J
205-99-2	Benzo(b)fluoranthene	12	J
207-08-9	Benzo(k)fluoranthene	8.2	J
50-32-8	Benzo(a)pyrene	11	J
53-70-3	Dibenz(a,h)anthracene	197	U
191-24-2	Benzo(g,h,i)perylene	37	U
193-39-5	Indeno(1,2,3-cd)pyrene	689	U

# FL-PRO ORGANIC ANALYSIS DATA SHEET

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field EPA Sample No. 002-CP9-S-0816-00  
 Lab Code: PEL Case No. \_\_\_\_\_ SAS No: \_\_\_\_\_ SDG No.: 2007284  
 Matrix: SOIL Lab Sample ID 200728402 Lab File ID 284-2.D  
 Sample wt/vol: 25.14 Units: G Date Received: 8/17/00  
 Concentrated Extract Volume: 2 Date Extracted: 8/17/00  
 Level:(low/med) LOW Date Analyzed: 8/19/00 Time: 2:18 AM  
 PercentSolids: 91.56 decanted: \_\_\_\_\_ Dilution Factor: 1  
 Extraction: SONC Station ID Clean Pile #9 Method: FL-PRO  
 GPC Cleanup : ( Y/N ) N pH: \_\_\_\_\_  
 GC Column: RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: *mg/Kg*

CAS NO.	ANALYTE	RESULT	Q
5289290-40-0	Total Petroleum Hydrocarbons	66	

CH2M Hill Constructors, Inc.  
 115 Perimeter Cen. Suite 700  
 Atlanta, GA 30346-1278  
 Tel No (770) 604-9182; Fax No (770) 604-9282

# CHAIN OF CUSTODY RECORD

2007-284

14915 page 1 of 1

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No., and Fax No.)
NAS Cecil Field	149152	PEL Laboratories, Inc. Darcy Weisman	Bill Canelos CCI/J.A. Jones	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 Fax: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No., and Fax No.)
NFFF Clean Soil Piles #8 & 9	CTO 002	2098	Lisa Schwan, CCI	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	PH (813) 247-2805 FAX (813)-248-1537	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.)
Bill Canelos	PH (904) 777-4812 FAX (904) 777-4262			

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers)			SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
								EPA 8160B (Grab)	EPA 8310 (composite)	FL PRO (Composite)			
1	002-CP8-S-0816-00	Clean Pile #8	soil	08/16/00	8:45	III/C	3 Day	x	x	x		OVA = 2 ppm (01)	
2	002-CP9-S-0816-00	Clean Pile #9	soil	08/16/00	13:00	III/C	3 Day	x	x	x		OVA = 71 ppm (02)	
3													
4													
5													
6													
7													
8													
9													
10													

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
W. J. Canelos, CCI/JAJES	FedEx Tracking No. 7923-6562-0265	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: W. J. Canelos, CCI/JAJES	8/16/00	17:00	Printed Name and Signature: FedEx Tracking No. 7923-6562-0265	8/16/00	18:00
Printed Name and Signature: <i>W. J. Canelos</i>			Printed Name and Signature: <i>Bernardo Palman</i>	8/17/00	11:00

## **Appendix E**

### **Soil Waste Characterization Analytical Report**



## Report of Analysis

<b>Client Sample ID:</b> 005PSC461-S-0727-00	<b>Date Sampled:</b> 07/27/00
<b>Lab Sample ID:</b> F7178-2	<b>Date Received:</b> 07/27/00
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 88.3
<b>Method:</b> SW846 8260B	
<b>Project:</b> NAS Cecil Field-Tank Removals	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0013900.D	10	08/07/00	JG	07/31/00	MS663	VG387
Run #2							

**VOA TCLP Leachate**

CAS No.	Compound	Result	HW#	MCL	RL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.020	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.020	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.020	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.020	mg/l	
75-35-4	1,1-Dichloroethylene	ND	D029	0.70	0.020	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.020	mg/l	
106-46-7	p-Dichlorobenzene	ND	D027	7.5	0.020	mg/l	
78-93-3	Methyl ethyl ketone	ND	D035	200	0.10	mg/l	
127-18-4	Tetrachloroethylene	ND	D039	0.70	0.020	mg/l	
79-01-6	Trichloroethylene	ND	D040	0.50	0.020	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-120%
2037-26-5	Toluene-D8	93%		80-120%
460-00-4	4-Bromofluorobenzene	94%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		69-128%

ND = Not detected  
 MCL = Maximum Contamination Level (40 CFR 261 6/96)  
 E = Indicates value exceeds calibration range  
 J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> 005PSC461-S-0727-00	<b>Date Sampled:</b> 07/27/00
<b>Lab Sample ID:</b> F7178-2	<b>Date Received:</b> 07/27/00
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 88.3
<b>Method:</b> SW846 8270C	
<b>Project:</b> NAS Cecil Field-Tank Removals	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L004730.D	1	08/02/00	ME	08/01/00	OP1897	SL293
Run #2							

**ABN TCLP Leachate**

CAS No.	Compound	Result	HW#	MCL	RL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.050	mg/l	
	3&4-Methylphenol	ND	D024	200	0.050	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.25	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.050	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.050	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.050	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.050	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.050	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		21-100%
4165-62-2	Phenol-d5	31%		10-94%
118-79-6	2,4,6-Tribromophenol	89%		10-123%
4165-60-0	Nitrobenzene-d5	82%		35-114%
321-60-8	2-Fluorobiphenyl	68%		43-116%
1718-51-0	Terphenyl-d14	90%		33-141%

ND = Not detected  
 MCL = Maximum Contamination Level (40 CFR 261 6/96)  
 E = Indicates value exceeds calibration range  
 J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



# Report of Analysis

<b>Client Sample ID:</b> 005PSC461-S-0727-00	<b>Date Sampled:</b> 07/27/00
<b>Lab Sample ID:</b> F7178-2	<b>Date Received:</b> 07/27/00
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 88.3
<b>Method:</b> FLORIDA-PRO	
<b>Project:</b> NAS Cecil Field-Tank Removals	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP09982.D	2	08/03/00	ME	08/01/00	OP1894	GOP419
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	46.5	19	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		40-140%

ND = Not detected  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound



# Report of Analysis

<b>Client Sample ID:</b> 005PSC461-S-0727-00	<b>Date Sampled:</b> 07/27/00
<b>Lab Sample ID:</b> F7178-2	<b>Date Received:</b> 07/27/00
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 88.3
<b>Method:</b> SW846 8151	
<b>Project:</b> NAS Cecil Field-Tank Removals	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF29999.D	1	08/07/00	ANJ	08/07/00	N:OP7949	N:GEF1733
Run #2							

### Herbicide TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	Units	Q
94-75-7	2,4-D	ND	D016	10	0.020	mg/l	
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	93%		40-150%
19719-28-9	2,4-DCAA	99%		40-150%

ND = Not detected

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



# Report of Analysis

<b>Client Sample ID:</b> 005PSC461-S-0727-00	<b>Date Sampled:</b> 07/27/00
<b>Lab Sample ID:</b> F7178-2	<b>Date Received:</b> 07/27/00
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 88.3
<b>Method:</b> SW846 8081A	
<b>Project:</b> NAS Cecil Field-Tank Removals	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST06638.D	1	08/10/00	SKW	08/01/00	OP1896	GST238
Run #2							

### Pesticide TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.00050	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0050	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.0010	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.00050	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.00050	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.0020	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		50-128%
2051-24-3	Decachlorobiphenyl	114%		11-157%

ND = Not detected

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



# Report of Analysis

Client Sample ID: 005PSC461-S-0727-00	Date Sampled: 07/27/00
Lab Sample ID: F7178-2	Date Received: 07/27/00
Matrix: SO - Soil	Percent Solids: 88.3
Method: SW846 8082	
Project: NAS Cecil Field-Tank Removals	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB15226.D	1	08/01/00	SKW	07/31/00	OP1891	GAB555
Run #2							

### PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	380	ug/kg	
11104-28-2	Aroclor 1221	ND	380	ug/kg	
11141-16-5	Aroclor 1232	ND	380	ug/kg	
53469-21-9	Aroclor 1242	ND	380	ug/kg	
12672-29-6	Aroclor 1248	ND	380	ug/kg	
11097-69-1	Aroclor 1254	ND	380	ug/kg	
11096-82-5	Aroclor 1260	ND	380	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		50-144%
2051-24-3	Decachlorobiphenyl	98%		10-180%

ND = Not detected  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound



# Report of Analysis

Client Sample ID: 005PSC461-S-0727-00

Lab Sample ID: F7178-2

Matrix: SO - Soil

Date Sampled: 07/27/00

Date Received: 07/27/00

Percent Solids: 88.3

Project: NAS Cecil Field-Tank Removals

## Metals Analysis, TCLP Leachate

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method
Arsenic	<0.50	D004	5.0	0.50	mg/l	1	08/04/00	08/10/00 JK	SW846 6010A
Barium	<1.0	D005	100	1.0	mg/l	1	08/04/00	08/10/00 JK	SW846 6010A
Cadmium	<0.050	D006	1.0	0.050	mg/l	1	08/04/00	08/10/00 JK	SW846 6010A
Chromium	<0.050	D007	5.0	0.050	mg/l	1	08/04/00	08/10/00 JK	SW846 6010A
Lead	<0.50	D008	5.0	0.50	mg/l	1	08/04/00	08/10/00 JK	SW846 6010A
Mercury	<0.0020	D009	0.20	0.0020	mg/l	1	08/08/00	08/09/00 JK	SW846 7470A
Selenium	<0.50	D010	1.0	0.50	mg/l	1	08/04/00	08/10/00 JK	SW846 6010A
Silver	<0.050	D011	5.0	0.050	mg/l	1	08/04/00	08/10/00 JK	SW846 6010A

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261 6/96)



<b>Client Sample ID:</b> 005PSC461-S-0727-00	<b>Date Sampled:</b> 07/27/00
<b>Lab Sample ID:</b> F7178-2	<b>Date Received:</b> 07/27/00
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 88.3
<b>Project:</b> NAS Cecil Field-Tank Removals	

**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed By	Method
Corrosivity as pH	8.4			1	08/10/00 JK	SW846 CHAP7
Cyanide Reactivity	<1.7	1.7	mg/kg	1	08/11/00 JK	SW846 CHAP7
Ignitability (Flashpoint)	>212	212	Deg. F	1	08/11/00 JK	SW846 1010
Solids, Percent	88.3		%	1	08/02/00 SJL	EPA 160.3 M
Sulfide Reactivity	<57	57	mg/kg	1	08/10/00 JK	SW846 CHAP7

**RL = Reporting Limit**

**CH2M Hill Constructors, Inc.**  
 115 Perimeter Center, Suite 700  
 Atlanta, GA 30346-1278  
 Tel No (770) 604-9182 ; Fax No (770) 604-9282

# CHAIN OF-CUSTODY RECORD

F7178

NUMBER  
 148799-1 page 1 of 1

PROJECT NAME: <b>N.A.S. Cecil Field Various Tank Removals</b>	PROJECT NUMBER: <b>148799</b>	LAB NAME AND CONTACT: <b>Accutest, Orlando, FL</b>	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 1 (Name and Company) <b>Saul Grosser, Capitol Environmental Services, Inc.</b>	RECIPIENT 1 (Address, Tel No., and Fax No.): <b>8229 Boone Blvd., Vienna, VA 22182-2623 phone (703) 356-3135 fax 703-356-4198</b>
PROJECT PHASE/SITE/TASK: <b>Soil Waste Characterization</b>	CTO OR DO NUMBER: <b>0005</b>	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 2 (Name and Company) <b>Bill Canelos, CCI/JAJES</b>	RECIPIENT 2 (Address, Tel No., and Fax No.): <b>6219 Authority Road, Jacksonville, FL 32221 phone (904) 777-4812 fax 904-777-4262</b>
PROJECT CONTACT: <b>Bill Canelos</b>	PROJECT TEL NO AND FAX NO: <b>phone (904) 777-4812 fax 904-777-4262</b>	LAB TEL NO AND FAX NO: <b>phone (407) 425-6700</b>	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.):

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers)													SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
								1311/8260B TCLP Volatiles	1311/8270C TCLP SemiVols	1311/8081A TCLP Pest.	1311/8151A TCLP Herb.	1311/6010B TCLP Metals	FL PRO	Method 8082 PCBs	Method 1030 Ignitability	Method 9045A Corrosivity	Chapter 7.3 Reactivity						
1	005-HSR1-S-0727-00	Soil Waste Characterization	S	07/27/00	9:25	III/C	7 day	X	X	X	X	X	X	X	X	X	X	X	X	X	Composite		
2	005PSC461-S-0727-00	Soil Waste Characterization	S	07/27/00	10:25	III/C	7 day	X	X	X	X	X	X	X	X	X	X	X	X	X	Composite		
3	005-PSC451-S-0727-00	Soil Waste Characterization	S	07/27/00	11:40	III/C	7 day	X	X	X	X	X	X	X	X	X	X	X	X	X	Composite		
4	005-PSC321-S-0727-00	Soil Waste Characterization	S	07/27/00	12:15	III/C	7 day	X	X	X	X	X	X	X	X	X	X	X	X	X	Composite		
5	005-OGC1-S-0727-00	Soil Waste Characterization	S	07/27/00	13:00	III/C	7 day	X	X	X	X	X	X	X	X	X	X	X	X	X	Composite		
6																							
7																							
8																							
9																							
10																							

SAMPLER(S) AND COMPANY: (please print) <b>David Poe, Dorado Services, Inc.</b>	COURIER AND SHIPPING NUMBER: <b>Driven to lab by Sampler</b>	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
---	---	---

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: <b>David M. Poe</b>	<b>7/27/00</b>	<b>4:45</b>	Printed Name and Signature: <b>Leanne Poe</b>	<b>7/27</b>	
Printed Name and Signature: <b>Swann M. Poe</b>			Printed Name and Signature:		