N60200.AR.002499
NAS CECIL FIELD, FL
5090.3a

SOURCE REMOVAL REPORT FOR EXCAVATION OF PETROLEUM-CONTAMINATED SOIL AT POTENTIAL SOURCE OF CONTAMINATION 30 AREA OF INTEREST 30 BUILDING 313 MOP RACK AREA NAS CECIL FIELD FL

7/1/2000

CH2MHILL CONSTRUCTORS INC

SOURCE REMOVAL REPORT
EXCAVATION OF PETROLEUM-CONTAMINATED SOIL AT PSC 30, AOI 30, BUILDING 313 MOP RACK AREA

NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Revision No. 00

Unit Identification Code: N65928

Contract Task Order No. 0005
Contract No. N62467-98-D-0995

July 2000

Prepared by

CH2MHILL Constructors, Inc.

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

Submitted to

Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29406

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

Source Removal Report

Excavation of Petroleum-Contaminated Soil at PSC 30, AOI 30, Building 313 Mop Rack Area

NAS Cecil Field
Jacksonville, Florida

Revision No. 00

Contract No. N62467-98-D-0995, CTO No. 0005

Submitted to

Department of the Navy, Southern Division
Naval Facilities Engineering Command

Prepared by

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

July 2000

Prepared/Approved By:

Sam Ross, Project Manager — Date

Approved By:

R. Scott Newman, Program Manager — Date

Client Acceptance:

U.S. Navy Responsible Authority — Date

DISTRIBUTION LIST

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Tetra Tech NUS, Inc.	4

CERTIFICATION OF TECHNICAL DATA CONFORMITY (JULY 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:_____

NAME AND TITLE OF CERTIFYING OFFICIAL: _____

Sam Ross, P.E.
Project Manager

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GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
AOI	Area of Interest
bls	below land surface
CCI	CH2M HILL Constructors, Inc.
CTO	Contract Task Order
EBS	Environmental Baseline Survey
FDEP	Florida Department of Environmental Protection
mg/kg	milligrams per kilogram
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
OU	Operable Unit
PSC	Potential Source of Contamination
SCTL	soil cleanup target level
SVOCs	semi-volatile organic compounds
TtNUS	Tetra Tech NUS, Inc.

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 soil and prepare a Source Removal Report for Potential Source of Contamination (PSC) 30, Area of Concern (AOI) 30, Building 313 Mop Rack Area (PSC 30) at Naval Air Station (NAS) Cecil Field in Jacksonville, Florida. The source removal was conducted in accordance with the specifications outlined in the Sampling and Analysis Report for Building 313, dated March 1999, prepared by Harding Lawson Associates and the Dig and Haul Package for PSC 30, AOI 30, Building 313 Mop Rack Area, dated August 6, 1999 prepared by Tetra Tech NUS, Inc. (TtNUS).

The scope of services for excavation of petroleum-contaminated soil at PSC 30 is described in detail in the NAS Cecil Field Basewide Work Plan, Revision 01 (CCI, 1998) and the Work Plan Addendum No. 02, Excavation of Lead-, Arsenic-, PCB-, and/or Petroleum-Contaminated Soil from Various Grey Sites; NAS Cecil Field, Jacksonville, Florida (CCI, 1999). This work was authorized under Remedial Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0005.

1.1 SITE BACKGROUND. Building 313 is referred to as the Building 313 Floor Wash Disposal Area site in the NAS Cecil Field Environmental Baseline Survey (EBS) Report prepared by ABB Environmental Services, Inc. (ABB-ES) in 1984. PSC 30 is a grassy area, approximately 10 feet by 15 feet in size, located on the west side of the access road to the flight line between Building 313 and Hangar 825.

Although the top 4 to 6 inches of surface soil was reportedly removed in 1988 (ABB-ES, 1995a), the potential for residual soil contamination at PSC 30 was noted in the EBS as a continuing environmental concern because analytical samples were not collected during or following the soil removal.

PSC 30 is located within the Instillation Restoration Site 16 groundwater contamination plume (ABB-ES, 1995b). A seepage pit used by the flight line jet engine maintenance facility in which solvents, paint, metals, and grease were disposed of, was formerly located at Site 16. Site 16 has been designated as Operable Unit (OU) 7. An interim remedial action has been performed at OU 7 to remove the see page pit, an underground holding tank, and contaminated soil that surrounded the underground structures (ABB-ES, 1995b). The remedial Investigation report for OU 7 (ABB-ES, 1995b) indicates that PSC 30 is within the area affected by a chlorinated-solvent groundwater contamination plume.

Collection and analysis of two surface soil samples within PSC 30 were taken during a Phase II investigation. Field activities were undertaken in general conformance with the Project Operations Plan (ABB-ES 1994b). Both samples collected were submitted for the full contract laboratory program suite of target compound list organics and target analyte list inorganics analysis.

Four additional surface soil samples and two subsurface soil samples were collected during a subsequent field effort to attempt to delineate the extent of polynuclear aromatic hydrocarbon contaminants detected in the initial samples.

Eighteen inorganic analytes, nineteen semi-volatile organic compounds (SVOCs), and six pesticide compounds were detected in surface soil samples collected and analyzed at PSC 30. No volatile organic compounds were detected.

Eight of the inorganic analytes were detected at concentrations in excess of the NAS Cecil Field inorganic background screening values. However, no inorganic analytes were detected in excess of the Florida Department of Environmental Protection (FDEP) soil cleanup target levels (SCTLs). With the exception of bis (2-ethylhexyl) phthalate, all of the detected SVOCs are polynuclear aromatic hydrocarbons. Benzo (a) pyrene was detected at a concentration of 0.27 milligrams per kilograms (mg/kg), which exceeds the FDEP SCTL of 0.10 mg/kg. No other SVOCs were detected concentrations in excess of FDEP SCTLs. No pesticide compounds were detected at concentrations in excess of FDEP SCTLs.

A site plan showing the proposed delineated soil excavation limits prior to this source removal is provided in Figure 1-1.

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 foot below land surface (bls), as specified in the Dig and Haul Package for PSC 30, AOI 30, Building 313 Mop Rack Area (TtNUS, 1999). Soils were to be excavated until the vertical and horizontal excavation limits were reached, and then the excavated area backfilled with clean fill material imported from offsite.

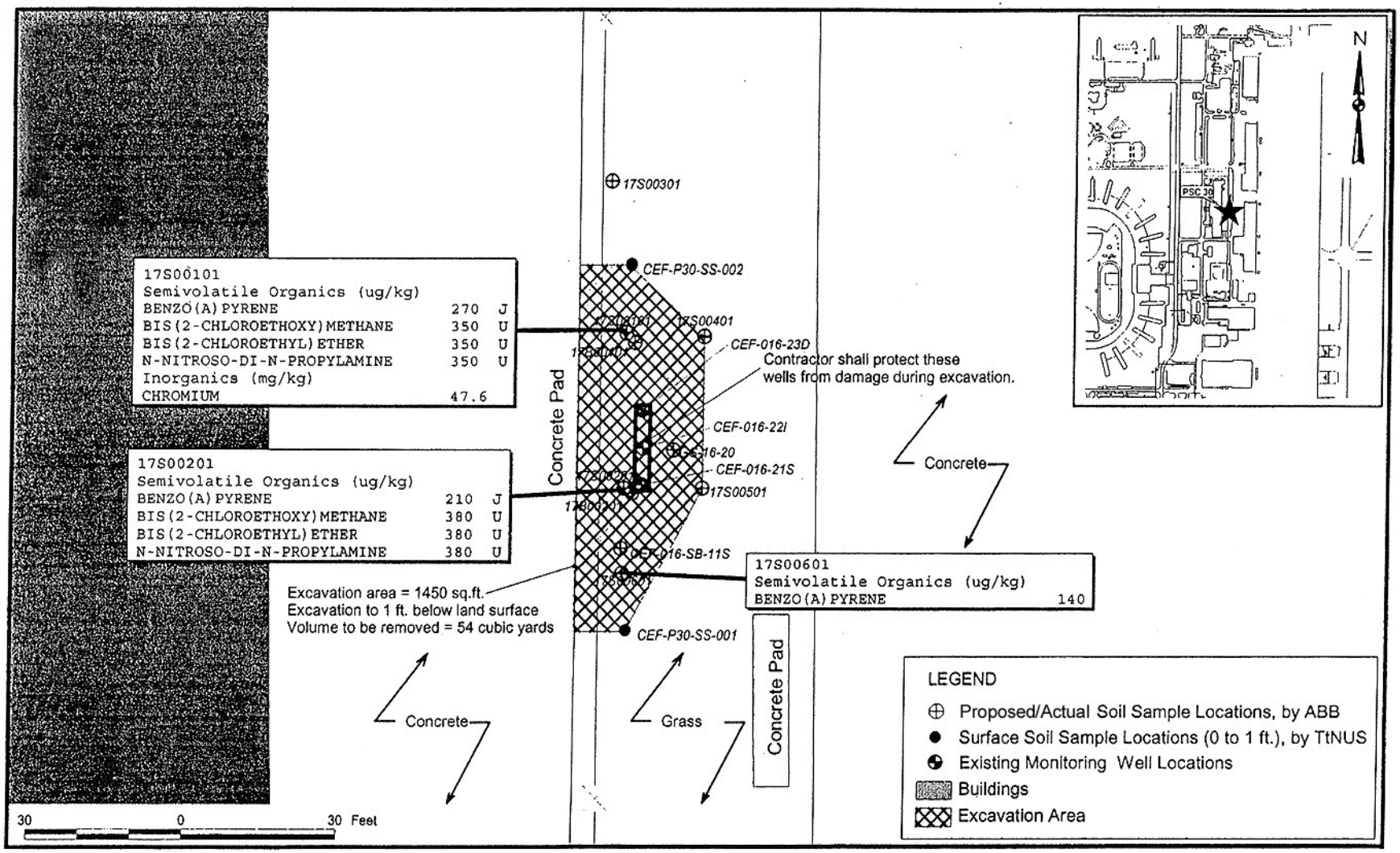

Figure 1-1
Proposed/Actual Soil Excavation Limits
PSC 30, Area of Interest 30
Naval Air Station Cecil Field
Jacksonville, Florida

CH2MHILL

A012000010ATL/Xcav109.FH8

2.0 SOURCE REMOVAL ACTIVITIES

A source removal was conducted at PSC 30 on February 17 and 18, 2000, with a total of 63.64 tons of petroleum-contaminated soil excavated. The excavated soil was transported and disposed of offsite on February 23, 2000. Photographs showing the site before, during, and after the source removal are provided in Appendix A.

2.1 SITE PREPARATION. In preparation for excavation, utility locations were conducted by Sunshine State One-call of Florida. The excavation area was marked for utilities and these areas were hand-excavated and the utilities uncovered.

2.2 SOIL EXCAVATION AND DISPOSAL

2.2.1 Soil Excavation. Soils were excavated to the horizontal excavation limits shown on Figure 1-1 and the vertical excavation limit of 1 foot bls as specified in the Dig and Haul Package for PSC 30, AOI 30, Building 313 Mop Rack Area (TtNUS, 1999).

The soil was excavated using a mini-excavator and was stockpiled, bermed, and covered prior to being loaded into trucks for transportation and disposal. Based on the manifests, 63.64 tons of petroleum-contaminated soil from PSC 30 were excavated and disposed of offsite. The actual horizontal excavation limits matched the proposed horizontal excavation limits specified in the Dig and Haul Package for PSC 30, AOI 30, Building 313 Mop Rack Area (TtNUS, 1999), and are shown on Figure 1-1.

2.2.2 Soil Transportation and Disposal. The petroleum-contaminated soil was transported off site by trucks provided by Pritchett Trucking to the Chesser Island Road Landfill in Folkston, Georgia. A summary of the manifests is presented in Table 2-1; copies of the manifests and certificate of disposal are provided in Appendices B and C, respectively.

TABLE 2-1
Summary of the Manifests for Soil Disposal

Date	Truck No.	Company	Manifest No.	Weight (pounds)	Tare (pounds)	Net (pounds)	Net (tons)
2/23/00	743	Pritchett Trucking	93554	77,560	30,500	47,060	23.53
2/23/00	706	Pritchett Trucking	93555	76,380	31,500	44,880	22.44
2/23/00	704	Pritchett Trucking	93556	65,340	30,000	35,340	17.67

2.2.3 Backfilling and Site Restoration. The material used to backfill the excavation was clean fill brought in from the Dallas Harts Borrow Pit in Jacksonville, Florida. The analytical report certifying that the material was clean fill is provided in Appendix D.

Once the excavation area was backfilled, the site was graded and seeded with a mixture of rye and bahia grass.

2.3 CONFIRMATORY SAMPLING AND ANALYSIS. No confirmatory sampling and analyses were performed based on the specifications outlined in the Dig and Haul Package for PSC 30, AOI 30, Building 313 Mop Rack Area (TtNUS) and the Baseline PSC Dig and Haul Schedule and Status (TtNUS, 1999).

3.0 CONCLUSIONS

A total 63.64 tons of petroleum-contaminated soil from PSC 30 were removed and disposed of off site during this source removal. The soil was excavated to the horizontal excavation limits shown on Figure 1-1 and the vertical excavation limit of 1 foot bls. The actual vertical and horizontal excavation limits matched the proposed vertical and horizontal excavation limits specified in the Dig and Haul Package for PSC 30, AOI 30, Building 313 Mop Rack Area (TtNUS, 1999). No confirmatory sampling and analysis were performed based on the specifications outlined in the Dig and Haul Package for PSC 30, AOI 30, Building 313 Mop Rack Area (TtNUS, 1999) and the Baseline PSC Dig and Haul Schedule and Status (TtNUS, 1999).

REFERENCES

CH2M HILL Constructors, Inc.; *Basewide Work Plan, Revision 1*; NAS Cecil Field, Jacksonville, Florida; November 1998.

CH2M HILL Constructors, Inc.; *CTO No. 0005 Work Plan Addendum No. 2, Excavation of Lead-, Arsenic-, PCB-, and/or Petroleum-Contaminated Soil from Various Grey Sites*; NAS Cecil Field, Jacksonville, Florida; June 1999.

Harding Lawson Associates; *Sampling and Analysis Report, Building 313, Base Realignment and Closure, Zone D, Developed Nonindustrial Area;* NAS Cecil Field, Jacksonville, Florida; March 1999.

Tetra Tech NUS, Inc.; *Baseline PSC Dig and Haul Schedule and Status*; NAS Cecil Field, Jacksonville, Florida; December 1999.

Tetra Tech NUS, Inc.; *Dig and Haul Package for PSC 30, AOI 30, Building 313 Mop Rack Area*; NAS Cecil Field, Jacksonville, Florida; August 1999.

Appendix A

Photographs

1. View of the PSC 30 site prior to excavation.

2. View of the PSC 30 excavation

3. View of the PSC 30 depth of excavation measurement.

4. View of the PSC 30 excavation following backfilling and site restoration.

Appendix B

Copies of the Soil Manifests

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)*

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No.: FL517002247 4 — Manifest Document No.:
2. Page 1 of 1

3. Generator's Name and Mailing Address:
CSO/USNAVY SOIV NAVFAC ENG COM
13200 NORMANDY BLVD.
JACKSONVILLE, FL 32215

A. Manifest Number: WMNA 93554 93554

B. State Generator's ID:

4. Generator's Phone: 904 777-4812

5. Transporter 1 Company Name: PRITCHETT TRUCKING
6. US EPA ID Number: 06279400402 9

C. State Transporter's ID: FLD984178269
D. Transporter's Phone: (904) 486-2630

7. Transporter 2 Company Name:
8. US EPA ID Number:

E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
CHESSER ISLAND ROAD LANDFILL, INC.
12.1 MILES SW OF FOLKSTON
P. O. BOX 128
FOLKSTON, GA 37537

10. US EPA ID Number: 024-0006D

G. State Facility's ID:
H. Facility's Phone: 912-496-7918

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS NONREGULATED SOIL FROM SITE# site 16b — WM Profile # 313 CP4705			23.85		CELL SCALE
b. WM Profile #			23.53		FACILITY SCALE
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

Landfill_____ Solidification_____

Bio Remediation_____

K. Disposal Location

Cell Level

Grid

15. Special Handling Instructions and Additional Information

Tic. #18477 77560 30500 47060 Net

Purchase Order #

EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name: DAVID J. [illegible] — Signature "On behalf of": [signature] — Month Day Year: 02 18 00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: R W [illegible] — Signature: [signature] — Month Day Year: 02 23 00

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year:

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certificateion of receipt of non-hazardous materials covered by this manifest.

Printed/Typed Name: [signature] — Signature: [signature] — Month Day Year: 02 23 00

CWM - NHM - 1- 5/97

#5 - FACILITY USE ONLY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

CP5619

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Tank 701

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No.: FL517002247 4 — Manifest Document No.:

2. Page 1 of 1

3. Generator's Name and Mailing Address: CSO/USNAVY SOIV NAVFAC ENG COM, 13200 NORMANDY BLVD., JACKSONVILLE, FL 32215

4. Generator's Phone: 904 777-4812

A. Manifest Number: WMNA 93555 — 93555

B. State Generator's ID:

5. Transporter 1 Company Name: PRITCHETT TRUCKING

6. US EPA ID Number: 0 6 2 7 9 4 0 0 4 0 2 9

C. State Transporter's ID: FLD984178269

D. Transporter's Phone: (904) 486-2630

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address: CHESSER ISLAND ROAD LANDFILL, INC., 12.1 MILES SW OF FOLKSTON, P. O. BOX 128, FOLKSTON, GA 37537

10. US EPA ID Number: 0 2 4 - 0 0 0 6 D

G. State Facility's ID:

H. Facility's Phone: 912-496-7918

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. ~~NON-HAZARDOUS NONREGULATED SOIL FROM SITE#~~ ~~site 18b~~ WM Profile # ~~F047AE~~			22.15		CREEK SCALE
b. WM Profile #			22.44		FACILITY SCALE
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

Landfill_____ Solidification_____

Bio Remediation_____

K. Disposal Location

Cell Level

Grid

15. Special Handling Instructions and Additional Information

Tic. #18480 76380 31500 44880 NE

Purchase Order #

EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name: DAVID J. KRUZICKI — Signature "On behalf of": [signature] — Month Day Year: 02 18 00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] — Signature: [illegible] — Month Day Year: 02 23 00

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year:

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certificateion of receipt of non-hazardous materials covered by this manifest

Printed/Typed Name: [signature] — Signature: [signature] — Month Day Year: 02 23 00

GENERATOR — TRANSPORTER — FACILITY

CWM - NHM - 1/5/97

#5 - FACILITY USE ONLY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No.: FL517002247 4 — Manifest Document No.:
2. Page 1 of 1

3. Generator's Name and Mailing Address: CSO/USNAVY SOIV NAVFAC ENG COM, 13200 NORMANDY BLVD., JACKSONVILLE, FL 32215
4. Generator's Phone: 904 777-4812

A. Manifest Number: WMNA 93556 — 93556
B. State Generator's ID:

5. Transporter 1 Company Name: PRITCHETT TRUCKING
6. US EPA ID Number: 06279400402 9
C. State Transporter's ID: FLD984178269
D. Transporter's Phone: (904) 486-2630

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: CHESSER ISLAND ROAD LANDFILL, INC., 12.1 MILES SW OF FOLKSTON, P. O. BOX 128, FOLKSTON, GA 37537
10. US EPA ID Number: 024-0006D
G. State Facility's ID:
H. Facility's Phone: 912-496-7918

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS NONREGULATED SOIL FROM SITE# site 16b — WM Profile #					CELTS SCALE
b. WM Profile #			17.67		FACILITY SCALE
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

Landfill_____ Solidification_____

Bio Remediation_____

K. Disposal Location

Cell Level

Grid

15. Special Handling Instructions and Additional Information

Tic # 18510 65 340 30 000 35 940 Net

Purchase Order # EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name: DAVID J. KRUZICKI — Signature "On behalf of": David J. Kruzicki — Month Day Year: 02 18 00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Kenny Sweat — Signature: Kenny Sweat — Month Day Year: 02 23 00

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year: 00

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certificateion of receipt of non-hazardous materials covered by this manifest.

Printed/Typed Name: [illegible] — Signature: [illegible] — Month Day Year: [illegible]

CWM - NHM - 1- 5/97

#5 - FACILITY USE ONLY

Appendix C

Certificate of Disposal

CERTIFICATE OF DISPOSAL

This is to document the disposition of waste material(s) removed from your facility located at:
U.S. Navy, NAS Cecil Field, 13200 Normandy Boulevard, Jacksonville, Florida (Building 313)

A. The waste material(s) consisted of
   a) Petroleum Contaminated Soil

B. The waste material(s) were transported by:
   1st Company: Pritchett Trucking EPA ID #: N/A

C. The waste material(s) were disposed of at:
   Facility: Chesser Island Road Landfill
   Address: P.O. Box 128, Highway 121 @ Chesser Island Road
   Folkston, GA 31537-0128

D. Disposal of your waste material(s) was accomplished by the following method(s):
   a) Subtitle-D Landfill, immediately compacted and covered in accordance with all permit regulations

E. Date of Disposal: 02/23/00

F. Tons Disposed: ~~63.82~~ 63.64

Chesser Island Road Landfill
P.O. Box 128, Hwy 121 @ Chesser Island Rd
Folkston, Ga 31537
912/496-7918

Appendix D

Clean Fill Material Analytical Report

Report of Analysis

Client Sample ID:	005-BFI-S-1220-99		
Lab Sample ID:	F5529-1		
Matrix:	SO - Soil	Date Sampled:	12/20/99
Method:	SW846 8260B	Date Received:	12/21/99
Project:	Cecil Field-Grey Sites	Percent Solids:	88.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005415.D	1	12/22/99	CJP	n/a	n/a	VH20
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	53.6	82	ug/kg	J
71-43-2	Benzene	ND	3.3	ug/kg	
75-27-4	Bromodichloromethane	ND	3.3	ug/kg	
75-25-2	Bromoform	ND	3.3	ug/kg	
108-90-7	Chlorobenzene	ND	3.3	ug/kg	
75-00-3	Chloroethane	ND	8.2	ug/kg	
67-66-3	Chloroform	ND	3.3	ug/kg	
75-15-0	Carbon disulfide	ND	16	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.3	ug/kg	
124-48-1	Dibromochloromethane	ND	3.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.3	ug/kg	
100-41-4	Ethylbenzene	ND	3.3	ug/kg	
591-78-6	2-Hexanone	ND	16	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	16	ug/kg	
74-83-9	Methyl bromide	ND	8.2	ug/kg	
74-87-3	Methyl chloride	ND	8.2	ug/kg	
75-09-2	Methylene chloride	ND	16	ug/kg	
78-93-3	Methyl ethyl ketone	ND	16	ug/kg	
100-42-5	Styrene	ND	3.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.3	ug/kg	
108-88-3	Toluene	ND	3.3	ug/kg	
79-01-6	Trichloroethylene	ND	3.3	ug/kg	
75-01-4	Vinyl chloride	ND	8.2	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	ug/kg	

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:	005-BFI-S-1220-99		
Lab Sample ID:	F5529-1		
Matrix:	SO - Soil	Date Sampled:	12/20/99
Method:	SW846 3550B/8270C	Date Received:	12/21/99
Project:	Cecil Field-Grey Sites	Percent Solids:	88.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L002877.D	1	12/30/99	ME	12/30/99	OP1192	SL189
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	940	ug/kg	
95-57-8	2-Chlorophenol	ND	380	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	380	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	380	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	940	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	940	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	750	ug/kg	
95-48-7	2-Methylphenol	ND	380	ug/kg	
	3&4-Methylphenol	ND	380	ug/kg	
88-75-5	2-Nitrophenol	ND	380	ug/kg	
100-02-7	4-Nitrophenol	ND	940	ug/kg	
87-86-5	Pentachlorophenol	ND	940	ug/kg	
108-95-2	Phenol	ND	380	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	380	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	380	ug/kg	
83-32-9	Acenaphthene	ND	380	ug/kg	
208-96-8	Acenaphthylene	ND	380	ug/kg	
120-12-7	Anthracene	ND	380	ug/kg	
56-55-3	Benzo(a)anthracene	ND	380	ug/kg	
50-32-8	Benzo(a)pyrene	ND	380	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	380	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	380	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	380	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	380	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	380	ug/kg	
100-51-6	Benzyl Alcohol	ND	380	ug/kg	
91-58-7	2-Chloronaphthalene	ND	380	ug/kg	
106-47-8	4-Chloroaniline	ND	380	ug/kg	
86-74-8	Carbazole	ND	380	ug/kg	
218-01-9	Chrysene	ND	380	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	380	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	380	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	380	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	380	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	380	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	380	ug/kg	

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:	005-BFI-S-1220-99		
Lab Sample ID:	F5529-1		
Matrix:	SO - Soil	Date Sampled:	12/20/99
Method:	SW846 3550B/8081A	Date Received:	12/21/99
Project:	Cecil Field-Grey Sites	Percent Solids:	88.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST02118.D	1	12/29/99	SKW	12/27/99	OP1184	GST85
Run #2							

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	1.9	ug/kg	
319-84-6	alpha-BHC	ND	1.9	ug/kg	
319-85-7	beta-BHC	ND	1.9	ug/kg	
319-86-8	delta-BHC	ND	1.9	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.9	ug/kg	
5103-71-9	alpha-Chlordane	ND	3.8	ug/kg	
5103-74-2	gamma-Chlordane	ND	3.8	ug/kg	
60-57-1	Dieldrin	ND	1.9	ug/kg	
72-54-8	4,4'-DDD	ND	3.8	ug/kg	
72-55-9	4,4'-DDE	ND	3.8	ug/kg	
50-29-3	4,4'-DDT	ND	3.8	ug/kg	
72-20-8	Endrin	ND	3.8	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.8	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.8	ug/kg	
53494-70-5	Endrin ketone	ND	3.8	ug/kg	
959-98-8	Endosulfan-I	ND	1.9	ug/kg	
33213-65-9	Endosulfan-II	ND	3.8	ug/kg	
76-44-8	Heptachlor	ND	1.9	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.9	ug/kg	
72-43-5	Methoxychlor	ND	7.5	ug/kg	
8001-35-2	Toxaphene	ND	190	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	107%		50-144%
2051-24-3	Decachlorobiphenyl	91%		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: 005-BFI-S-1220-99
Lab Sample ID: F5529-1
Matrix: SO - Soil
Project: Cecil Field-Grey Sites

Date Sampled: 12/20/99
Date Received: 12/21/99
Percent Solids: 88.6

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Arsenic	<1.1	1.1	mg/kg	1	12/24/99	12/27/99	JK	SW846 6010A
Barium	<21	21	mg/kg	1	12/24/99	12/27/99	JK	SW846 6010A
Cadmium	<0.42	0.42	mg/kg	1	12/24/99	12/27/99	JK	SW846 6010A
Chromium	3.5	1.1	mg/kg	1	12/24/99	12/27/99	JK	SW846 6010A
Lead	<11	11	mg/kg	1	12/24/99	12/27/99	JK	SW846 6010A
Mercury	<0.18	0.18	mg/kg	1	12/27/99	12/28/99	JK	SW846 7471A
Selenium	<11	11	mg/kg	1	12/24/99	12/27/99	JK	SW846 6010A
Silver	<1.1	1.1	mg/kg	1	12/24/99	12/27/99	JK	SW846 6010A

RL = Reporting Limit

ACCUTEST

4405 VINEL SUITE C-15
OI 2811
TEL: 407-425- FAX: 407-425-0707

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: OMEGASYS ENVIRONMENTAL
ADDRESS: 4661 HAMMERMILL RD - SUITE B
CITY: TUCKER STATE: GEORGIA ZIP: 30519
SEND REPORT TO PHONE #: 770-621-9414 (ROB WRIGHT)

FACILITY INFORMATION

PROJECT NAME: CCI/J.A. JONES - GREY SITES
LOCATION: CECIL FIELD - JACKSONVILLE, FL
PROJECT NO.: 99130
FAX #: 770-934-2451

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	8260/~~8010~~ - ENCORE	TOTAL RCRA	PESTICIDES-8081A	HERBICIDES-8151	PCBS-8082	SEMIVOLS-8270					LAB USE ONLY
	005-BF1-S-1220-97	12/20/99	900	GSH	SO	5					X	3	2									
	Dallas Hart (chaffe rd)																					

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- ☐ STANDARD
- ☐ 48 HOUR RUSH
- ☐ 24 HOUR EMERGENCY
- ☒ OTHER 72 HR

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	12/20/99-930	2. [signature]	2.		2.
3. [signature]	12/20/99-1100	3. Fed Ex	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE