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NAS CECIL FIELD, FL
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"SOURCE REMOVAL REPORT FOR ABOVEGROUND STORAGE TANK CLOSURE/CONTAMINATED SOIL EXCAVATION AT BUILDING 80 TANKS 80-132, 80-133, 80-134 AND 80-135 WITH TRANSMITTAL LETTER NAS CECIL FIELD FL"
5/7/2001
CH2MHILL CONSTRUCTORS INC

CH2M HILL
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CH2MHILL
Constructors, Inc.

May 7, 2001

Mr. Nick Ugolini
Southern Division, Naval Facilities Engineering Command
P.O. Box 190010
North Charleston, SC 29419-9010

RE: Contract No. N62467-98-D-0995
Contract Task Order 0002 – Naval Air Station (NAS) Cecil Field – Jacksonville, Florida
Source Removal Report for the AST Closure/Contaminated Soil Excavation at Building 80 – Tank Numbers 80-132, 80-133, 80-134 and 80-135

Dear Mr. Ugolini:

CH2M HILL Constructors, Inc. (CCI) is pleased to provide one copy of the enclosed Source Removal Report for the AST Closure/Contaminated Soil Excavation at Building 80 – Tank Numbers 80-132, 80-133, 80-134 and 80-135at NAS Cecil Field in Jacksonville, Florida.

If you have any questions or comments regarding the enclosed, please do not hesitate to contact me at (904) 777-4812.

Sincerely,

CH2M HILL Constructors, Inc.

FOR

Samuel M. Ross
Project Manager

cc: Jimmy Jones, SOUTHDIV (w/o)
Larry Blackburn, ROICC
Mike Deliz, FDEP
Mark Speranza, TetraTech NUS (2 copies)
Paul Calligan, TetraTech NUS
CCI Project File No. 149152

Source Removal Report

Aboveground Storage Tank Closure/Contaminated Soil Excavation at Building 80 – Tank Numbers 80-132, 80-133, 80-134 and 80-135

Naval Air Station Cecil Field
Jacksonville, Florida

Contract No. N62467-98-D-0995
Contract Task Order No. 0002

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

May 2001

Source Removal Report
Aboveground Storage Tank Closure/Contaminated Soil Excavation at Building 80 – Tank Numbers 80-132, 80-133, 80-134, and 80-135
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Contract No. N62467-98-D-0995
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Submitted to:

U.S. Naval Facilities
Engineering Command
Southern Division

Prepared by:

CH2MHILL
Constructors, Inc.

May 2001

Prepared/Approved By:

Samuel M. Ross, Project Manager — Date

Approved By:

R. Scott Newman, Program Manager — Date

Client Acceptance:

U.S. Navy Responsible Authority — Date

Distribution List

	Copies
Southern Division, Naval Facilities Engineering Command	1
NAS Cecil Field	1
City of Jacksonville, Regulatory and Environmental Services Department, Air and Water Quality Division	1
CH2M HILL, Inc.	1
Tetra Tech NUS, Inc.	2

CERTIFICATION OF TECHNICAL DATA CONFORMITY (April 2001)

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

DATE:_____

NAME AND TITLE OF CERTIFYING OFFICIAL:

_____

Samuel M. Ross
Project Manager

Certificate of Completion

CH2M HILL Constructors, Inc., attests that, to the best of its knowledge and belief, the aboveground storage tank closures (80-132, 80-133, 80-134, and 80-135) and contaminated soil excavation at Building 80, delivered under Contract No. N62467-98-D-0995, Naval Air Station Cecil Field, Jacksonville, Florida, Contract Task Order (CTO) No. 0002, has been completed, inspected, and tested, and is in compliance with the contract.

_____ _____

Project QC Manager Date

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Acronyms

bls	below land surface
CCI	CH2M HILL Constructors Inc.
CSR	Confirmatory Sampling Report
CTO	Contract Task Order
EPA	U.S. Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FID	flame ionization detector
FL-PRO	Florida Petroleum Residual Organic
HLA	Harding Lawson Associates
KAG	Kerosene Analytical Group
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
NTFF	North Tank Fuel Farm
OVA	organic vapor analyzer
PAHs	polynuclear aromatic hydrocarbons
ppm	parts per million
PVC	polyvinyl chloride
RCRA	Resource Conservation and Recovery Act
SA	Site Assessment
SCTLs	selected soil cleanup target levels
SVOAs	semivolatile organic aromatics
SVOCs	semivolatile organic compounds
TRPH	total recoverable petroleum hydrocarbons
UST	underground storage tank
VOCs	volatile organic compounds

SOURCE REMOVAL REPORT REQUIREMENTS – *CHECKLIST*

Per FAC 62-770.300(3) the source removal report shall contain the following information in detail, as applicable:

Site Name: Building 80, Aboveground Storage Tank Area (former Tank Numbers 80-132, 80-133, 80-134, 80-135 locations) Date(s) of Source Removal: 08/24/00

Required Information	**Response**
1. Volume of product that was discharged, if known	*Unknown*
2. Volume of free product and the volume of groundwater recovered	*Not Applicable. No free product observed; No groundwater recovered.*
3. Volume of contaminated soil excavated and treated or properly disposed	*72.63 tons of soil excavated and disposed of offsite (See Section 2.3.2).*
4. Disposal or recycling methods for free product and contaminated soil	*Contaminated soil recycled at Kedesh, Inc., Kingsland, Georgia, by thermal treatment/recycling. (See Appendix B for manifests).*
5. Disposal methods for other contaminated media	*Not Applicable*
6. Scaled site map (including a graphical representation of the scale used) showing the area of soil removed or treated and the approximate locations of all samples taken	*See Figures 1-2 and 2-1.*
7. Table summarizing free product thickness in each monitoring well or piezometer and the dates the measurements were made	*No free product observed in monitoring wells.*
8. Type of field screening instrument or method used	*Foxboro Model 128 OVA/FID*
9. Dimensions of the excavation(s) and location(s), integrity, capacities and last known contents of storage tanks, integral piping, dispensers, or appurtenances removed	*Excavation area: approximately 25 feet long by 15 feet maximum width by 6 feet maximum depth (see Figure 2-1).*
10. Dimensions of the excavation(s) and location(s) and capacities of replacement underground storage tanks	*Not Applicable. No replacement tank installed.*
11. Table indicating the identification, depth and field soil screening results of each sample collected	*See Table 2-2.*
12. Depth to groundwater at the time of each excavation, measurement locations and method used to obtain that information	*Depth to groundwater approximately 5.1 feet bls. Measured by electronic water level indicator (See Section 2.2.1) in well #CEF-80-12S.*
13. Type of petroleum or petroleum products reportedly discharged	*Used Oil*
14. Documentation confirming the proper treatment or proper disposal of contaminated soil, including disposal manifests, a copy of the treatment or acceptance of the contaminated soil and results of analyses, if performed	*See Table 2-1 and Appendices B and C.*
15. For land farmed soil, a copy of the pre-treatment and post-treatment analytical results	*Not Applicable. Soil recycled offsite.*

1.0 Introduction

CH2M HILL Constructors, Inc. (CCI) was contracted by the Southern Division, Naval Facilities Engineering Command (NAVFAC) to perform the aboveground storage tank (AST) closure assessment and the excavation of petroleum contaminated soil at Building 80, Transportation Fuel Management Building Used Oil AST Area at former Naval Air Station (NAS) Cecil Field in Jacksonville, Duval County, Florida. The closure assessment activities were conducted in accordance with the requirements of Chapter 62-761, Florida Administrative Code (FAC), and in accordance with Florida Department of Environmental Protection (FDEP) guidance documents "Storage Tank System Closure Assessment Requirements" (April, 1998), and "Quality Assurance Standard Operating Procedures for Petroleum Storage System Closure Requirements." The source removal was conducted in accordance with the FDEP Petroleum Contamination Site Cleanup rule Chapter 62-770 FAC.

The scope of services for tank removal and excavation of petroleum contaminated soil at Building 80 is described in detail in the NAS Cecil Field Basewide Work Plan, Revision 01 (CCI, 1998a) and the Work Plan Addendum No. 5, Removal of the North Tank Fuel Farm and Removals at Various Tank Sites (CCI, 2000). This work was authorized under the Response Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0002.

1.1 Site Background

Building 80 contained four 10,000-gallon used oil ASTs, installed in 1989 and removed on August 17, 2000, by MECO Petroleum, a pollutant contractor hired by the city of Jacksonville, Florida. It was reported that the soil at the site became contaminated with used oil as a result of leaking valves at the base of the four 10,000-gallon used oil ASTs. The contamination extended beyond the concrete containment dike that surrounded the ASTs. A Confirmatory Sampling Report (CSR) prepared by Harding Lawson Associates (HLA) (dated April 1999), indicated the presence of soil contamination at concentrations in excess of the applicable FDEP soil cleanup target levels (SCTLs). The results of laboratory analysis of a groundwater sample collected as part of that study revealed no evidence of groundwater contamination. A site plan showing the site and the site conditions prior to the source removal is provided in Figure 1-2.

1.2 Project Objectives and Summary of Work Performed

The primary objective of the source removal was to excavate petroleum contaminated soil that exceeded the SCTLs outlined in Chapters 62-770 and 62-777 FAC. The source removal activities included screening methodology to assess the presence or absence of soil contamination through the use of organic vapor analysis and visual inspection. In addition, confirmatory soil and groundwater samples were collected for laboratory analysis following completion of the source removal based on the results from screening activities. So exhibiting staining or discoloration and/or exhibiting OVA concentrations of greater than 10 parts per million (ppm) was considered to be contaminated and were expected to contain

constituents exceeding the SCTLs. Soil was excavated until organic vapor analyzer (OVA) concentrations of less than 10 ppm were achieved. Waste characterization samples were collected on July 26, 2000. The samples were collected prior to the source removal activities to determine how the soil was to be disposed. The depth of excavation was determined by the depth to groundwater at the site, which was measured in a nearby flush-mounted monitor well CEF-80-12S using an electronic water level indicator.

Following completion of the soil excavation activities, confirmatory soil samples were collected from the excavation for laboratory analysis for those parameters in the Used Oil Analytical Group, which included volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (EPA) Method 8260B, semi-volatile organic aromatics (SVOAs) by EPA Method 8270C, total recoverable petroleum hydrocarbons (TRPH) by the Florida Petroleum Residual Organic (FL-PRO) method, and Resource Conservation and Recovery Act (RCRA) metals EPA Method 6010B.

Following backfilling of the excavation, a temporary well point was installed in the area of the excavation selected as representative of the apparent worst-case location, and a confirmatory groundwater sample was collected for laboratory analysis for Used Oil Group Parameters. The Used Oil Group analyses for groundwater include volatile organic compounds (VOCs) by EPA Method 8260B, polynuclear aromatic hydrocarbons (PAHs) and semi-volatile organic compounds (SVOCs) by EPA Method 8270C, total recoverable petroleum hydrocarbons (TRPH) by FL-PRO method and RCRA metals by EPA Method 6010B.

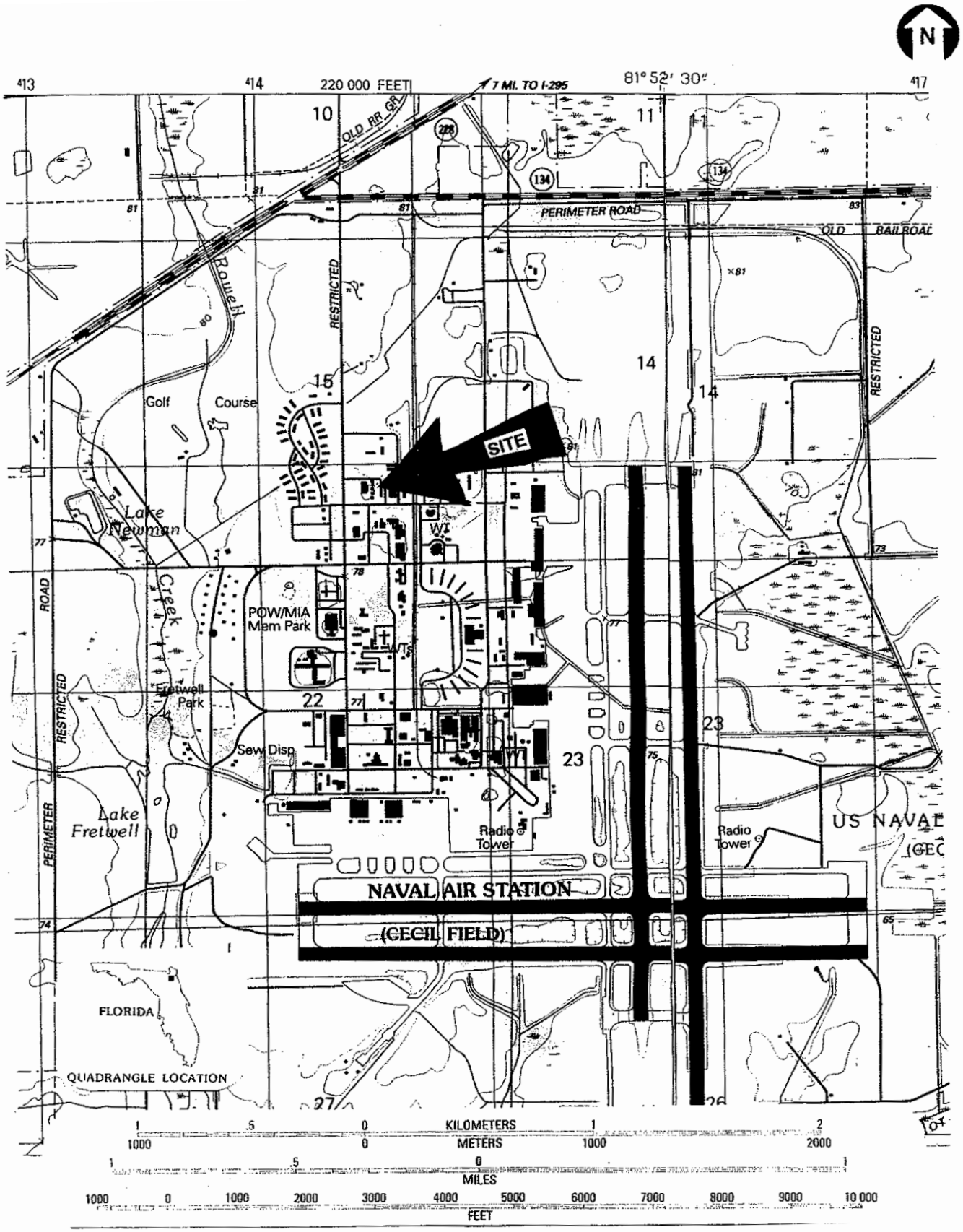

Figure 1-1
Site Location Map
Building 80 ASTs
NAS Cecil Field
Jacksonville, Florida

CH2MHILL

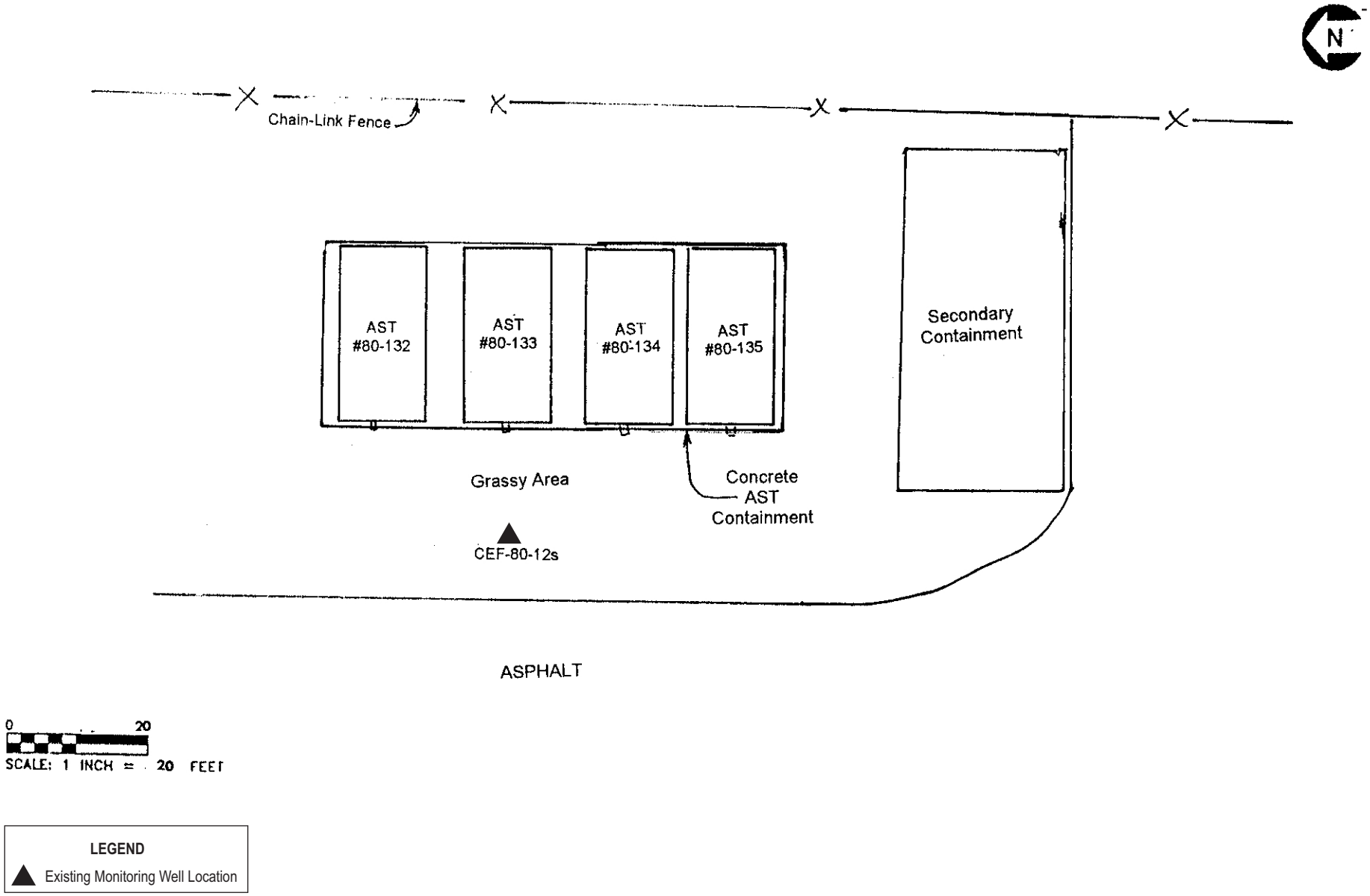

Figure 1-2
Pre-Excavation Conditions
Building 80 ASTs
NAS Cecil Field
Jacksonville, Florida

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2.0 Source Removal Activities

The source removal was initiated at Building 80 on August 16, 2000, and continued on August 24 and 25, 2000. In the interim between the initiation of the field activities on August 16 and subsequent soil excavation conducted on August 24 and 25, the four 10,000-gallon ASTs located at the site were removed by City of Jacksonville contractor MECO Petroleum. A total of 72.63 tons of petroleum contaminated soil was excavated and disposed of offsite by thermal treatment/recycling. Soil was excavated to the water table, which was encountered at a depth of approximately 5.1 feet below land surface (bls). No free product was observed during the excavation. Photo documentation of the field activities is provided in Appendix A.

2.1 Site Preparation

In preparation for excavation, underground utility locate services were contacted for underground utility locations within the area of concern, and no subsurface structures were identified. On August 16, 2000, preliminary soil excavation was conducted in the area indicated by the CSR as having the highest apparent contamination. The results of the soil screening conducted during the initial soil excavation indicated the presence of petroleum contamination beneath the concrete AST containment pad. Additional excavation was discontinued until the ASTs were removed from the site, and the concrete containment pad overlying the area of contamination could be removed. The ASTs were removed on August 17, 2000, and soil excavation was resumed at the site on August 24, 2000. Site conditions prior to the start of the source removal activities are shown on Figure 1-2.

2.2 Tank Removal

Four 10,000-gallon used oil ASTs were removed from the site by MECO Petroleum on August 17, 2000. The tanks were single walled steel aboveground with a concrete secondary containment dyke. No piping or any part of the system was in direct contact with the soil.

2.3 Soil Excavations and Disposal

Source removal activities, including the excavation of soil from the area previously identified as contaminated, were initiated on August 16, 2000. Soil excavation was initiated in a 5-foot by 5-foot area at the center of the area indicated by the CSR as having the highest apparent contamination and continued beneath the AST containment pad based on OVA screening and visual inspection. Soil samples were collected continuously during excavation and were screened in the field for the presence of petroleum contamination using OVA soil headspace analysis procedures, in accordance with Chapter 62-770 FAC. In this procedure, two clean 16-ounce, widemouth glass jars were half-filled with the soil sample to be tested, the jars were sealed with aluminum foil, and allowed to equilibrate at ambient temperatures for a period of 5 to 10 minutes. The organic vapor concentration in the headspace of the two jars was then analyzed using the OVA/flame ionization detector (FID). One sample was

analyzed with a carbon filter and the other was analyzed without a carbon filter in order to detect and correct for the presence of naturally occurring organic vapors (i.e., methane). The corrected reading is reported in ppm, and represents the concentration of organic vapor from the soil sample resulting from the presence of volatile petroleum hydrocarbon compounds in the sample. Soil with OVA readings in excess of 10 ppm was excavated, and excavation was continued until OVA were below 10 ppm. The results of the OVA soil screening are summarized in Table 2-1, and OVA soil sampling locations are shown on Figure 2-1.

Soil exhibiting an OVA concentration of greater than 10 ppm was considered to be contaminated and were expected to contain constituents exceeding the SCTLs. Soil was excavated until OVA concentrations of less than 10 ppm were achieved and all visual indications of contamination had been abated. The depth of excavation was determined by the depth to groundwater at the site, which was measured in a nearby flush-mounted monitor well CEF-80-12S to be 5.1 feet. Soil was slightly over-excavated to a maximum depth of 6 ft bls to insure that all contaminated soil was excavated. Following completion of the soil excavation activities, confirmatory soil samples were collected from the excavation for laboratory analysis for Kerosene Analytical Group (KAG) parameters, which included VOCs by EPA Method 8260B, SVOCs by EPA Method 8270C, TRPH by the FL-PRO method, and RCRA metals (arsenic, cadmium, chromium, and lead) by EPA Method 6010B.

2.3.1 Soil Excavation

The soil excavation was conducted using a track hoe. The excavated soil was stockpiled on-site on top of, and covered with, 6-millimeter (mil) plastic sheeting, prior to disposal in accordance with Chapter 62-770.300 FAC. Excavation was initiated at the area of greatest apparent contamination, identified in the CSR, and continued until all visual indications of contamination had been abated and OVA soil screening results were below the target level of 10 ppm.

The excavation area was rectangular in shape, and measured approximately 25 feet in overall length (from north to south), and approximately 15 feet in width (east to west). Excavation was conducted in the apparent worst-case area to a depth of approximately 5 to 6 feet bls in an area measuring approximately 15 feet by 14 feet. In areas where contamination appeared to be surficial, an area measuring approximately 15 feet by 10 feet by 2 feet in depth was excavated. Figure 2-1 illustrates the area excavated and Appendix A provides photo documentation.

2.3.2 Soil Transportation and Disposal

The source removal activities generated a total of 72.63 tons of soil requiring disposal. This soil was transported to Kedesh, Inc., Kingsland, Georgia, for disposal by thermal treatment/recycling. The limits of excavation are shown on Figure 2-1. A summary of the manifests is presented in Table 2-2 and copies of the disposal manifests and waste characterization analysis can be found in Appendix B. A copy of the Certificate of Treatment is found in Appendix C. The Certificate of Treatment, which accounts for a total of 672.37 tons of soil that was treated, includes a total of 599.72 tons that were from other source removals performed at NAS Cecil Field during the same time period.

TABLE 2-1
Summary of OVA Soil Headspace Screening Results

Sample Location (refer to Figure 2-1)	Depth (feet bls)	FID Unfiltered (ppm)	FID with Filter (ppm)	FID Corrected (ppm)	Remarks
1	Surficial	0	0	0	Samples # 1 – 10 collected 8/16/00 from "Hot Spot" area – west end of AST # 80-133, original area of excavation adjacent to concrete containment wall in location identified by previous study as contaminated (prior to AST removal)
2	Surficial	0	0	0	
3	Surficial	0	0	0	
4	Surficial	0	0	0	
5	Surficial	0	0	0	
6	1.0	60	0	60	
7	2.0	260	0	260	
8	3.0	310	0	310	
9	4.0	540	0	540	
10	5.0	>1000	0	>1000	
11	5.0	120	0	120	Center of 'hot Spot'
12	6.0	28	0	28	1 ft below #11- @ gw saturation
13	5.0	640	0	640	
14	3.0	3.0	0	3.0	
15	5.0	40	0	40	
16	4.0	58	0	58	
17	4.0	500	0	500	
18	2.0	0	0	0	
19	4.0	0	0	0	
20	2.0	0	0	0	
21	4.0	0	0	0	
22	2.0	0	0	0	
23	4.0	0	0	0	
24	5.0	0	0	0	
25	5.0	38	0	38	
26	5.0	62	0	62	
27	2.0	0	0	0	
28	4.0	0.4	0	0.4	
29	6.0	1.6	0	1.6	
30	2.0	0	0	0	
31	4.0	2.0	0	2.0	
32	5.0	320	0	320	
33	2.0	0	0	0	
34	4.0	4.0	0	4.0	
35	5.0	140	0	140	
36	2.0	0	0	0	
37	4.0	0	0	0	
38	0.5	0	0	0	
39	6.0	0.5	0	0.5	
40	6.0	0	0	0	
41	Surficial	0	0	0	
42	2.0	0	0	0	
43	4.0	0	0	0	

TABLE 2-1
Summary of OVA Soil Headspace Screening Results

Sample Location (refer to Figure 2-1)	Depth (ft bls)	FID Unfiltered (ppm)	FID with Filter (ppm)	FID Corrected (ppm)	Remarks
44	5.0	2.4	0	2.4	
45	2.0	1.5	0	1.5	
46	5.0	0	0	0	
47	5.0	2.2	0	2.2	
48	2.0	0	0	0	
49	4.0	0	0	0	
50	6.0	27	0	27	
51	2.0	0	0	0	
52	4.0	0	0	0	
53	6.0	0	0	0	
54	2.0	0	0	0	
55	4.0	0	0	0	
56	6.0	3.0	0	3.0	
57	1.0	0	0	0	
58	2.0	0	0	0	
59	2.0	0	0	0	
60	1.0	0	0	0	
61	1.0	0	0	0	
62	2.0	0	0	0	
63	2.0	0	0	0	
64	1.0	0	0	0	
65	1.0	0	0	0	
66	2.0	0	0	0	
67	2.0	0	0	0	
68	1.0	0	0	0	
69	1.0	0	0	0	
70	1.0	0	0	0	
71	1.0	0	0	0	
72	1.0	0	0	0	
73	2.0	0	0	0	
74	4.0	0	0	0	
75	6.0	0	0	0	
76	2.0	0	0	0	
77	4.0	0	0	0	
78	6.0	0	0	0	
79	1.0	0	0	0	
SB-1-S	Surficial	0	0	0	Soil boring, edge of containment pad, west end of AST # 135
SB-1-1	1.0	0	0	0	
SB-1-2	2.0	0	0	0	
SB-1-3	3.0	0	0	0	
SB-1-4	4.0	0	0	0	
SB-1-5	5.0	0	0	0	
SB-1-6	6.0	0	0	0	

TABLE 2-1
Summary of OVA Soil Headspace Screening Results

Sample Location (refer to Figure 3)	Depth (ft bls)	FID Unfiltered (ppm)	FID with Filter (ppm)	FID Corrected (ppm)	Remarks
SB-2-S	Surficial	0	0	0	Soil boring, edge of containment pad, west end of AST # 134
SB-2-1	1.0	0	0	0	
SB-2-2	2.0	0	0	0	
SB-2-3	3.0	0	0	0	
SB-2-4	4.0	0	0	0	
SB-2-5	5.0	0	0	0	
SB-2-6	6.0	0	0	0	
SB-3-S	Surficial	0	0	0	Soil boring, south side of containment pad, at gate valve
SB-3-1	1.0	0	0	0	
SB-3-2	2.0	0	0	0	
SB-3-3	3.0	0	0	0	
SB-3-4	4.0	0	0	0	
SB-3-5	5.0	0	0	0	

TABLE 2-2
Summary of Manifests for Soil Disposal

Date	Truck #	Company	Manifest #	Weight (pounds)	Tare (pounds)	Net (pounds)	Net (tons)
09/19/00	9900	Modlin	137800	63,800	22,500	41,300	20.65
09/19/00	212	Modlin	137700	74,120	22,800	51,320	25.66
09/19/00	9901	Modlin	137900	56,160	22,500	33,660	16.83
09/19/00	9807	Modlin	138000	60,540	22,600	37,940	18.97*
						TOTAL	82.11
*Manifest 13800 split between 80 AST and 80 OWS - 9.48 tons from Building 80 (OWS)						Less	9.48
						Grand Total	**72.63**

2.3.3 Backfilling and Site Restoration

The material used to backfill the excavation was certified clean fill brought in from the North Tank Fuel Farm (NTFF) removal project at NAS Cecil Field. The certified clean soil used to backfill the Building 80 excavation was taken from NTFF Clean Pile 1. The laboratory analytical report for Clean Pile 1 showing that the material was clean is presented in Appendix D. The backfill was compacted using the excavation equipment. No compaction tests were required.

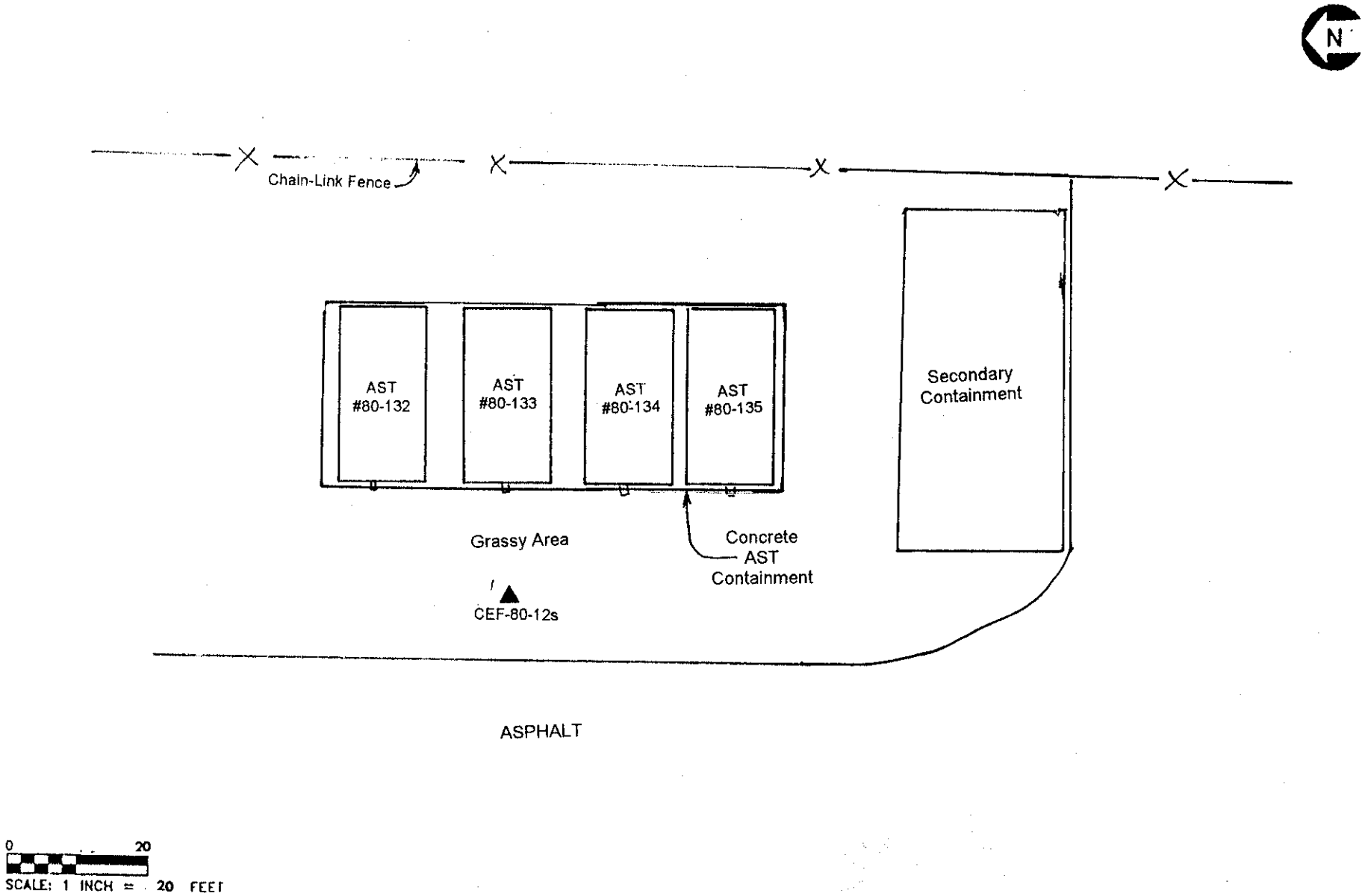

Figure 2-1
Pre-Excavation Conditions
Building 80 ASTs
NAS Cecil Field
Jacksonville, Florida

CH2MHILL

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Following completion of the source removal activities, the area of excavation was returned to original grade using the clean fill and hydro seeded with a mixture of brown millet, rye, bahia grass, fertilizer and mulch.

2.4 Sampling and Analysis

Soil samples were collected from the limits of the excavation and screened in the field using OVA headspace analysis procedures. Following completion of the soil excavation activities, two confirmatory soil samples and one confirmatory groundwater sample was collected from the areas of the excavation selected as representative of the apparent worst-case site conditions for laboratory analysis. Sampling locations are shown on Figure 2-1.

2.4.1 Headspace Analysis

Soil samples collected from the excavation were screened using an OVA equipped with an FID in accordance with the procedures outlined in Chapter 62-770.200(8) FAC, as described in Section 2.3. A methane filter was used to subtract the methane concentration from the results. The horizontal limits of excavation were expanded until net headspace concentrations were below 10 ppm. In addition, a series of soil borings were conducted in front of the previous locations of product valves for AST 80-134 (SB-1), AST 80-135 (SB-2), and at the gate valve to the concrete containment structure (SB-3), to ensure that no other soil contamination was present in those areas. The results of the headspace analyses are summarized in Table 2-1.

2.4.2 Collection and Laboratory Analysis of Soil Samples

Following completion of source removal activities, two confirmatory soil samples were collected for laboratory analysis, as follows:

- Confirmatory Soil Sample 002-80AST N-S-0825-00 was collected from the north wall of the excavation. The sample was collected at a depth of approximately 4.0 feet bls, which was approximately 1 foot above the depth of the water table, at the location selected as representative of the apparent worst-case location from the northern perimeter of the excavation.
- Confirmatory Soil Sample 002-80AST E-S-0825-00 was collected from the eastern wall of the excavation. The sample was collected at a depth of approximately 1.0 ft bls at the location selected as representative of the apparent worst-case location, based on indications of soil discoloration.

The confirmatory soil samples were collected using stainless steel hand tools and Encore brand samplers. Samples were placed into pre-cleaned; laboratory supplied sample containers, appropriately labeled, sealed in zip-lock type bags and placed on wet ice for transport. The samples were delivered to an approved laboratory for analysis by the following methods:

- EPA Method 8260B – VOCs
- EPA Method 8270C – Extractable Organic Compounds
- FL-PRO – TRPHs
- EPA Method 6010B – RCRA Metals

The confirmatory soil sampling locations are shown on Figure 2-1. The results of the laboratory analysis of the confirmatory soil sample indicate no contaminant concentrations above the applicable SCTLs. Sampling results are summarized in Table 2-3 and a copy of the analytical laboratory reports of the confirmatory soil analysis is provided in Appendix E.

TABLE 2-3
Summary of Laboratory Analysis for Soil - Used Oil Parameters

Sample Location	Depth (feet)	Sample ID	Date	TRPH	Acetone	All Other 8260 Coupounds	All 8270 Compounds	Cadmium	Chromium	Lead
North Wall	4	002-80AST N-S-0815-00	8/15/00	ND	**0.133**	ND	ND	ND	21.1	8.73
East Wall	1	002-80AST E-S-0815-00	8/15/00	ND	ND	ND	ND	ND	5.21	3.55
FDEP SCTLs*				340	2.8	NA	NA	0.8	38	400

All values reported in mg/kg.
NA = Not Applicable; ND = Not Detected. (See Appendix E for laboratory report)
*SCTLs as specified in Chapter 62-777 FAC, Table II
Lower of A) Direct Exposure – Residential; B) Direct Exposure – Industrial; or, C) Leachability Concentration

2.4.3 Collection and Laboratory Analyses of Groundwater Samples

Following backfilling of the excavation with clean fill, a temporary well point (TMW-80AST) was installed and a groundwater sample was collected from the area of the excavation selected as representative of the apparent worst-case location. The temporary well point was constructed of 2-inch polyvinyl chloride (PVC) with 5 feet of 0.010-inch slotted well screen, and clean filter sand was used to fill the annular space within the screened interval. The well point was installed such that the well screen intercepted the top of the water table, which was encountered at a depth of approximately 5.1 feet below surface grade. Prior to sample collection, the temporary well was purged a total of five standing volumes using a portable peristaltic pump, and a groundwater sample was collected using a teflon bailer. Sample containers, which had been provided by the designated laboratory, were appropriately labeled, preserved, sealed in zip-lock type bags, placed on wet ice, and delivered, under standard chain of custody procedures, to an approved laboratory for analysis by the methods specified for the Used Oil Parameter Group, as follows:

- EPA Method 8260B – VOCs
- EPA Method 8270C – SVOCs
- FL-PRO – TRPHs
- EPA Method 6010B – RCRA Metals

The results of the laboratory analysis of the groundwater sample collected revealed no indications of contaminant concentrations above the groundwater cleanup target levels (GCTLs) as specified by Chapter 62-777 FAC, Table I. The groundwater sampling location is

shown on Figure 2-1. Sampling result are summarized in Table 2-4 and copies of the analytical laboratory reports are provided in Appendix F.

TABLE 2-4
Summary of Laboratory Analysis for Groundwater - Used Oil Parameters

Sample Location	Sample ID	Date	TRPH	All 8270 Compounds	All 8270 Compounds	Arsenic	Cadmium	Chromium	Lead
TMW-1	002-80AST W-0815-00	8/15/00	ND	ND	ND	ND	ND	18	15
FDEP GCTLs*			5000	NA	NA	50	5	100	15

All values reported in µg/kg.
NA = Not Applicable; ND = Not Detected. (See Appendix F for laboratory report)
*GCTLs as specified in Chapter 62-777 FAC, Table I

3.0 Conclusions

The source removal activities conducted at Building 80, AST generated a total of 72.63 tons of non-hazardous petroleum contaminated soil that has been disposed at Kedesh, Inc., Kingsland, Georgia, by thermal treatment/recycling. The soil was excavated to the water table, which was encountered at a depth of approximately 5.1 feet bls, and soil was then slightly over-excavated in order to ensure that all contaminated soil was removed.

Excavation was conducted until soil samples collected for field screening exhibited OVA headspace concentrations of less than 10 ppm, and visual indications of contamination were abated. Following completion of the soil excavation activities, confirmatory soil samples were collected from the north and east walls of the excavation for laboratory analysis. Each of those samples were collected from locations selected as representative of the apparent worst-case location from the respective walls, and were analyzed for those compounds listed in the Used Oil Parameter Group. The results of the laboratory analysis of the two confirmatory soil samples were below SCTLs for all compounds of concern, confirming that the horizontal limits of the contaminated soil had been excavated.

The results of the laboratory concentrations of a groundwater sample collected from a temporary well installed in the location selected as representative of the apparent worst-case site conditions were also below the GCTLs, per Chapter 62-777 FAC.

Based on the results of the soil and groundwater analysis collected as part of the source removal activities, the SCTLs and GCTLs have been achieved at this site and no further action per Chapter 62-770 FAC is recommended.

4.0 References

Harding Lawson Associates. Confirmatory Sampling Report, Building 80, Tanks 80-132, 80-133, 80-134, and 80-135; Base Realignment and Closure; NAS Cecil Field, Jacksonville, Florida. April 1999.

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

CH2M HILL Constructors, Inc. Work Plan Addendum Number 5, Removal of the North Tank Fuel Farm and Removals at Various Tank Sites, NAS Cecil Field, Jacksonville, Florida. May 2000.

Appendix A

Photo Documentation

1. Photograph facing generally South, overlooking Building 80 AST Area prior to start of Source Removal activities.

2. Photograph, facing generally east, at start of soil excavation activities.

Photodocumentation: Source Removal; Building 80, AST Area
Cecil Field Naval Air Station; Facility ID # 16/8507293
Jacksonville, Duval County, Florida

3. Photograph, facing generally east, documenting original area of excavation at Building 80 AST area.

4. Photograph facing generally west, overlooking excavation following removal of ASTs and containment pad during Source Removal activities - Building 80 AST area.

Photodocumentation: Source Removal; Building 80, AST Area
Cecil Field Naval Air Station; Facility ID # 16/8507293
Jacksonville, Duval County, Florida

5. Photograph, facing generally southeast, overlooking area of excavation during Source Removal activities. Red flags indicate OVA sampling locations.

6. Photograph, facing generally west, overlooking final excavation – Building 80 AST Area Source Removal.

Photodocumentation: Source Removal; Building 80, AST Area
Cecil Field Naval Air Station; Facility ID # 16/8507293
Jacksonville, Duval County, Florida

7. Photograph overlooking excavated soil stockpiled on site pending disposal.

Photodocumentation: Source Removal; Building 80, AST Area
Cecil Field Naval Air Station; Facility ID # 16/8507293
Jacksonville, Duval County, Florida

Appendix B

Copies of Soil Disposal Manifest and Waste Characterization Analysis

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N/A

Manifest Document No. 137800

2. Page 1 of 8/30/00

3. Generator's Name and Mailing Address
United States Navy - N.A.S Cecil Field
6219 Authority AVE.
Jacksonville, FL 32221

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

5. Transporter 1 Company Name: MARLIN TRUCKING

6. US EPA ID Number: N/A

A. Transporter's Phone: (904) 358-233

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
KEDESH Inc. (SOIL RECYCLING)
1071 King AVE.
Kingsland, GA 31548

10. US EPA ID Number: 2 9 5 1 0 2 0 1 1 3 1 5

C. Facility's Phone: (912) 579-9979

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	W
a. PETROLEUM CONTAMINATED SOIL	0 0 1	D T	2072	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
United States Navy Rep. David J. Kruzicki (Environmental MGR.)
CTO-0002 Varios Tank Removals
Building 80 AST

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Emergency Service --(904) 241-2200
ERI JOB # 2316

9900

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 Wa

Printed/Typed Name: DAVID J. KRUZICKI — Signature: [signature] — Month / Day / Y

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DAVID McGUIRT — Signature: [signature] — Month 09 / Day 19 / Y

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month / Day / Y

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: Peggy Crews — Signature: Peggy Crews — Month 9 / Day 19 / Y

GENERATOR — TRANSPORTER — FACILITY

ORIGINAL - RETURN TO GENERATOR

WEIGHMASTER 020

Underground Utility Contractors, Inc.
5815 Highway 17 North
Kingsland, GA 31548
(912) 729-7555
(912) 882-3183

TICKET NO. 004962

12:41 09/19/00

TRUCK NO. 9900
GROSS WT. 63800 LBS TRANSPORTER Modlin's
TARE WT (M) 22500 LBS GENERATOR ERI Cecil Fields
NET WT. 41300 LBS DRIVER [illegible]
NET WT. 20.65 TON
Weighers Signature [illegible]
CUSTOMER NUMBER: 00
JOB NUMBER: 012073

[redacted]

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N/A

Manifest Document No. 137700

2. Page 1 of 8/30/00

3. Generator's Name and Mailing Address
United States Navy - N.A.S Cecil Field
6219 Authority AVE.
Jacksonville, FL 32221

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

5. Transporter 1 Company Name: MODLIN TRUCKING

6. US EPA ID Number: N/A

A. Transporter's Phone: (904)358-23

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
KEDESH Inc. (SOIL RECYCLING)
1671 King AVE.
Kingsland, GA 31548

10. US EPA ID Number: 2 9 5 1 0 2 0 1 1 3 1 5

C. Facility's Phone: (912)579-9979

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	W
a. PETROLEUM CONTAMINATED SOIL	0 0 1	D T	25,555	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
United States Navy Rep. David J. Kruzicki (Environmental MGR.)
CTO-0002 Varios Tank Removals
Building [redacted] 30 QST

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Emergency Service --(904) 241-2200
ERI JOB # 2316

212

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 Wa

Printed/Typed Name: DAVID J. KRUZICKI | Signature: David J Kruzicki | Month 9 | Day 19 | Y

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Terry A. Myers | Signature: Terry A Myers | Month 9 | Day 19 | Y

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Y

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: Peggy Crews | Signature: Peggy Crews | Month 9 | Day 19 | Y

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

[redacted]

WEIGHMASTER 020

Underground Utility Contractors, Inc.
5815 Highway 17 North
Kingsland, GA 31548
(912) 729-7555
(912) 882-3183

TICKET NO. 004363

12:43 09/19/00

TRUCK NO. 212
GROSS WT. 74120 LBS TRANSPORTER Modlin's
TARE WT (M) 22800 LBS GENERATOR ERI Cecil Fields
NET WT. 51320 LBS DRIVER Terry
NET WT. 25.66 TON
Weighers Signature Peggy Crews
CUSTOMER NUMBER: 00
JOB NUMBER: 012073

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N/A

Manifest Document No. 13780

2. Page 1 of

8/30/00

3. Generator's Name and Mailing Address
United States Navy - N.A.S Cecil Field
6219 Authority AVE.
Jacksonville, FL 32221

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

5. Transporter 1 Company Name
MODLIN TRUCKING

6. US EPA ID Number N/A

A. Transporter's Phone (904) 358-23

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
KEDESH Inc. (SOIL RECYCLING)
1871 King AVE.
Kingsland, GA 31548

10. US EPA ID Number 2 9 5 1 0 2 0 1 1 3 1 5

C. Facility's Phone (912) 579-9979

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity
a. PETROLEUM CONTAMINATED SOIL	0 0 1	D T	16.2
b.			
c.			
d.			

D. Additional Descriptions for Materials Listed Above
United States Navy Rep. David J. Kruzicki (Environmental MGR.)
CTO-0002 Varios Tank Removals
Building 80 GST

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Emergency Service --(904) 241-2200
ERI JOB # 2316
99d

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 W

Printed/Typed Name: David J. Kruzicki
Signature: [signature]
Month / Day

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Elmer McGuirt
Signature: [signature]
Month / Day

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

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: Peggy Creos
Signature: Peggy Creos
Month 9 Day 19

GENERATOR
TRANSPORTER
FACILITY

ORIGINAL - RETURN TO GENERATOR

WEIGHMASTER _____ 020

Underground Utility Contractors, Inc.
5815 Highway 17 North
Kingsland, GA 31548
(912) 729-7555
(912) 882-3183

TICKET NO. 004964

12:57 09/19/00

TRUCK NO. 9901
GROSS WT. 56160 LBS TRANSPORTER Modlins'
TARE WT (M) 22500 LBS GENERATOR ERI Cecil Field
NET WT. 33660 LBS DRIVER Chris McGuire
NET WT. 16.83 TON
Weighers Signature Peggy Crews
CUSTOMER NUMBER: 00
JOB NUMBER: 012073

[redacted]

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N / A
Manifest Document No. 1380.00
2. Page 1 of
8/30/00

GENERATOR

3. Generator's Name and Mailing Address: N.A.S Cecil Field
United States Navy
6219 Authority AVE.
Jacksonville, FL 32221
4. Generator's Phone (904) 777-8850

5. Transporter 1 Company Name: MODLIN TRUCKING
6. US EPA ID Number: N / A
A. Transporter's Phone: (904) 358-23

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
KEDESH Inc. (SOIL RECYCLING)
1871 King AVE.
Kingsland, GA 31548
10. US EPA ID Number: 2 9 5 1 0 2 0 1 1 3 1 5
C. Facility's Phone: (912) 579-9979

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity
a. PETROLEUM CONTAMINATED SOIL	0 0 1	D T	18.675
b.			
c.			
d.			

D. Additional Descriptions for Materials Listed Above
United States Navy Rep. David J. Kruzicki (Environmental MGR.)
CTO-0002 Varios Tank Removals
Building 80 OWS - AST

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Emergency Service --(904) 241-2200
ERI JOB # 2316
TRUCK #
9807
9.49 - AST
9.48 - OWS

TRANSPORTER

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
Printed/Typed Name: DAVID J. KRUZICKI
Signature: David J. Kruzicki
Month 9 Day 19

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID W JEPSON
Signature: David W Jepson
Month 9 Day 19

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

FACILITY

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: Peggy Crews
Signature: Peggy Crews
Month 9 Day 19

ORIGINAL - RETURN TO GENERATOR

[redacted]

WEIGHMASTER_____ 020

Underground Utility Contractors, Inc.
5815 Highway 17 North
Kingsland, GA 31548
(912) 729-7555
(912) 882-3183

TICKET NO. 004967

13:21 09/19/00

TRUCK NO. 9807
GROSS WT. 60540 LBS TRANSPORTER Medlin
TARE WT (M) 22600 LBS GENERATOR EBI Cecil Field
NET WT. 37940 LBS DRIVER
NET WT. 18.97 TON
Weighers Signature Reggie Lewis
CUSTOMER NUMBER: 00
JOB NUMBER: 012073

TestAmerica
INCORPORATED

Sample Identification

002-OWS2-S-0726-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 20.
Analysis Method: SW8082
Delivery Group: 201728
Instrument:

Lab Sample ID: 00-A105709
Date Sampled:: 7/26/00
Date Received: 7/28/00
Analysis Date: 8/10/00
Analysis Time: 21:24
Sample QC Group: 1554

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
12674-11-2	Aroclor 1016	470	U
11104-28-2	Aroclor 1221	470	U
11141-16-5	Aroclor 1232	470	U
53469-21-9	Aroclor 1242	470	U
12672-29-6	Aroclor 1248	470	U
11097-69-1	Aroclor 1254	3040	
11096-82-5	Aroclor 1260	470	U

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3-12-2001 11:33AM FROM ENVI RECOVERY 241 4732 P.8

00120a

TPH EXTRACTION by FLORIDA PRO

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

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TestAmerica
INCORPORATED

Sample Identification

002-OWS2-S-0726-00

Matrix: Solid Waste
% Dry Weight: 85.
Units: ug/kg dry weight

Lab Sample ID: 00-A105709
Date Sampled: 7/26/00
Date Received: 7/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG

Dilution Factor: 20.
Analysis Method: FPRO
Delivery Group: 201728
Instrument: PE-3
Grams Extracted: 25. g
Extract Vol: 2.0 ml

Analysis Date: 8/ 1/00
Analysis Time: 20:10
Sample QC Group: 8290

Extraction Date: 8/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	.....TRPH	868000	....

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ANALYTICAL REPORT

TCLP RESULTS

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

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P.3

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A105710
Sample ID: 002-KAG1-S-0726-00

TCLP RESULTS

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Arsenic	< 0.100	mg/l	5.0	92	8/10/00	6010B
Barium	< 1.00	mg/l	100	90	8/10/00	6010B
Cadmium	< 0.100	mg/l	1.0	84	8/10/00	6010B
Chromium	< 0.500	mg/l	5.0	82	8/10/00	6010B
Lead	< 0.500	mg/l	5.0	85	8/10/00	6010B
Mercury	< 0.0100	mg/l	0.20	102	8/10/00	7470A
Selenium	< 0.100	mg/l	1.0	100	8/10/00	6010B
Silver	< 0.100	mg/l	5.0	90	8/10/00	6010B
Benzene	< 0.0200	mg/l	0.5	106	8/10/00	8260
Carbon tetrachloride	< 0.0200	mg/l	0.5	102	8/10/00	8260
Chlorobenzene	< 0.0200	mg/l	100	104	8/10/00	8260
Chloroform	< 0.0200	mg/l	6.0	118	8/10/00	8260
1,2-Dichloroethane	< 0.0200	mg/l	0.5	116	8/10/00	8260
1,1-Dichloroethane	< 0.0200	mg/l	0.7	104	8/10/00	8260
Methylethylketone	< 0.100	mg/l	200	109	8/10/00	8260
Tetrachloroethene	< 0.0200	mg/l	0.7	96	8/10/00	8260
Trichloroethene	< 0.0200	mg/l	0.5	96	8/10/00	8260
Vinyl Chloride	< 0.0200	mg/l	0.2	100	8/10/00	8260
Cresols	< 0.0100	mg/l	200	63	8/10/00	8270
1,4-Dichlorobenzene	< 0.0100	mg/l	7.5	62	8/10/00	8270
2,4-Dinitrotoluene	< 0.0100	mg/l	0.13	72	8/10/00	8270
Hexachlorobenzene	< 0.0100	mg/l	0.13	46	8/10/00	8270
Hexchlor-1,3-butadien	< 0.0100	mg/l	0.5	64	8/10/00	8270
Hexachloroethane	< 0.0100	mg/l	3.0	60	8/10/00	8270
Nitrobenzene	< 0.0100	mg/l	2.0	62	8/10/00	8270
Pentachlorophenol	< 0.0100	mg/l	100	72	8/10/00	8270
Pyridine	< 0.0100	mg/l	5.0	66	8/10/00	8270
2,4,5-Trichlorophenol	< 0.0100	mg/l	400	66	8/10/00	8270
2,4,6-Trichlorophenol	< 0.0100	mg/l	2.0	66	8/10/00	8270
Chlordane	< 0.00300	mg/l	0.030	123	8/11/00	8081A
2,4-D	< 0.100	mg/l	10.0	109	8/10/00	8151A
Endrin	< 0.00050	mg/l	0.02	114	8/11/00	8081A
Heptachlor	< 0.00080	mg/l	0.008	97	8/11/00	8081A
Lindane	< 0.00050	mg/l	0.4	113	8/11/00	8081A

ample report continued . . .

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P.4

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A105710
Sample ID: 002-KAG1-S-0726-00

TCLP RESULTS

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Methoxychlor	< 0.00050	mg/l	10.0	113	8/11/00	8081A
Toxaphene	< 0.010	mg/l	0.50	106	8/11/00	8081A
Silvex	< 0.0100	mg/l	1.0	72	8/10/00	8151A
Heptachlor epoxide	< 0.00080	mg/l	0.008	106	8/11/00	8081A
TCLP Extraction	Initiated				8/ 8/00	1311
Zero Headspace Extraction	Initiated				8/ 8/00	1311

ND = Not detected at the report limit.

Flash point/ignitability reported to the nearest 10 deg F.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PCB's	30.5 gm	10.0 ml	8/ 4/00	J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-o-Terphenyl	82.	62. - 109.
Fla Pro Surr., C-35 hydrocarbon	94.	60. - 118.
VOA Surrogate, 1,2-Dichloroethane, d4	139. #	60. - 138.
VOA Surrogate, Toluene d8	110.	80. - 123.
VOA Surrogate, 4-Bromofluorobenzene	108.	73. - 122.
surr-Nitrobenzene-d5	94.	16. - 120.
surr-2-Fluorobiphenyl	94.	10. - 136.
surr-Terphenyl d14	72.	10. - 119.
surr-Phenol d5	90. #	10. - 69.
surr-2-Fluorophenol	104.	10. - 148.

Sample report continued . . .

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TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A105710
Sample ID: 002-KAG1-S-0726-00

Surrogate	% Recovery	Target Range
surr-2,4,6-Tribromophenol	118.	11. - 144.
pest surr-TCMX	48.	23. - 150.
pcb surr-TCMX	100.	10. - 179.
surr-Dibutylchlorendate	20.	10. - 120.
pcb surr-DCB	102.	15. - 130.
surr-DCPAA	56.	10. - 161.

All metal and organic results have been corrected for dry weight.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Glenn L. Norton Report Date: 8/16/00

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

2960 Foster Creighton Drive / Nashville, TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

Received Mar-12-01 12:41pm from 241 4732 → ESA INC page 6
3-12-2001 11:32AM FROM ENVI RECOVERY 241 4732 P.6

MISCELLANEOUS CHEMISTRY

REACTIVE CYANIDE by SW846 CHAPTER 7

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

Received Mar-12-01 12:41pm from 241 4732 → ESA INC page 11
3-12-2001 11:34AM FROM ENVI RECOVERY 241 4732 P.11

TestAmerica INCORPORATED

Inorganic Chemistry Analysis Summary

Batch Identification:

Analysis:	REACT. CN
Method:	SW846 Ch7
Preparation Date:	8/9/00
Preparation Analyst:	HB
Analysis Date:	8/10/00
Analyst:	~~GW~~ HH
Project#:	201728
Worklist #:	2390
Units:	mg/L

Batch Quality Control:

Blank:	<SD
ICV % rec:	102%
CCV % rec:	102%
LCS % rec:	100%
MS % rec:	69%
MSD rpd:	95.2
MS/MSD Lab ID #:	~~00~~-A 105709
Duplicate rpd:	0
Duplicate Lab ID #:	00-A105710
Regression Coef:	0.9992

	Client I.D.	Laboratory I.D.	Result
1	002-DWS2-S-0726-00	105709	<SD
2	002-XA62-S-0726-00	105710	<SD
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Received Mar-12-01 12:41pm from 241 4732 → ESA INC page 12
3-12-2001 11:34AM FROM ENVI RECOVERY 241 4732 P.12

MISCELLANEOUS CHEMISTRY

REACTIVE SULFIDE by SW846 CHAPTER 7

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

Received Mar-12-01 12:41pm from 241 4732 → ESA INC page 13
3-12-2001 11:34AM FROM ENVI RECOVERY 241 4732 P.13

TestAmerica
INCORPORATED

Inorganic Chemistry Analysis Summary

Batch Identification:

Analysis:	REACT. SULF
Method:	SW846 Ch7
Preparation Date:	8-9-00
Preparation Analyst:	AB
Analysis Date:	8/10/00
Analyst:	[illegible] / HH
Project#:	201728
Worklist #:	2390
Units:	mg/L

Batch Quality Control:

Blank:	<100
ICV % rec:	100%
CCV % rec:	99.5%
LCS % rec:	93.75
MS % rec:	91.2%
MSD rpd:	6.27
MS/MSD Lab ID #:	00-A105709
Duplicate rpd:	Ø
Duplicate Lab ID #:	00-A105710
Regression Coef:	N/A

	Client I.D.	Laboratory I.D.	Result
1	002-DWS2-S-0726-00	105709	<100
2	002-KAG2-S-0726-00	105710	<100
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Received Mar-12-01 12:41pm from 241 4732 → ESA INC
3-12-2001 11:34AM FROM ENVI RECOVERY 241 4732 page 14
P.14

CORROSIVITY by SW846/1110

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

Time in: 5:20pm

DATE: 8/4/00 TECH: TM

Time out: 5:20pm

Temp in: 20C

ANALYSIS: Corros.

Temp out: 20C

Sample #	1st wt	2nd wt	Diff	Sample wt	Final
105709	1.60	1.59	.01	100g	NOT CORROSIVE
107824	1.09	1.08	.01	DNS 50g	Not corrosive
107912	0.975	.973	.02	100g	Not corrosive
108321	1.59	1.58	.01	✓	Not corrosive

GENERIC IF-29 3/28/00

Received Mar-12-01 12:41pm FROM ENVI RECOVERY 241 4732 3-12-2001 11:35AM
from 241 4732 → ESA INC page 10 P.18

MISCELLANEOUS CHEMISTRY

IGNITABILITY by SW846/1010 M

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

Received Mar-12-01 12:41pm from 241 4732 → ESA INC page 17
3-12-2001 11:35AM FROM ENVI RECOVERY 241 4732 P.17

FLASH POINT / IGNITABILITY

t No: 1545 Date Created: 8/ 7/00

lyst: McFarland Analysis Date: 8/8/00 11:11 AM TM/JET

Dodecane flashed at 173.3°F

Sample No.	Flash Point	Ignitability	F.P. Open Cup
1.00-A109610	No flash up to 200°F	Not Requested	Not Requested
2.00-A109455	No flash up to 200°F	Not Requested	Not Requested
3.00-A105709	Not Requested	Not ignitable up to 200°F	Not Requested
W-846 DOC LEVEL III 105709-710			
-A105710	Not Requested	Not ignitable up to 200°F	Not Requested
5.00-A105726	Not Requested	Not ignitable up to 200°F	Not Requested
W-846 DOC LEVEL III 105726-727			
6.00-A105727	Not Requested	Not ignitable up to 200°F	Not Requested
7.00-A107994	Not Requested	Not ignitable up to 200°F	Not Requested
8.00-A108172	Not Requested	Not ignitable up to 200°F	Not Requested

JET

Received Mar-12-01 12:41pm from 241 4732 → ESA INC page 18
3-12-2001 11:36AM FROM ENVI RECOVERY 241 4732 P.18

FLASH POINT / IGNITABILITY

Batch Set No: 1546 Date Created: 8/ 7/00

Analyst: McFarland Analysis Date:

as	Sample No.	Flash Point	Ignitability	F.P. Open Cup
	9.00-A108143-1	Not flash up to 200°F	Not Requested	Not Requested
	10.00-A108321-2	Not Requested	Not ignitable up to 200°F	Not Requested
	11.Duplicate	#10 Not ignitable up to 200°F		
	known	Xylene flashed at 79.9°F		

Received Mar-12-01 12:41pm from 241 4732 → ESA INC page 19
3-12-2001 11:36AM FROM ENVI RECOVERY 241 4732 P.19

Received Mar-12-01 12:41pm from 241 4732 → ESA INC
3-12-2001 11:30AM FROM ENVI RECOVERY 241 4732

CH2M Hill Con[illegible]tors, Inc.
[illegible] Perimeter Center Place [illegible]
[illegible]lanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

9176 201228

CHAIN-O[illegible] CUSTODY RECORD

COC N[illegible]R
149152-22 page 1 of 1

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/ADD TO: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S. Cecil Field Various Tank Removals	149152	Test America, Nashville, TN Nancy Reed	Jay Daniel, Environmental Recovery, Inc.	251 Levy Road, Atlantic Beach, FL 322233 phone (904) 241-2200 fax 904-241-4732
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/ADD TO: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
	0002		Bill Canelos, CCIJAJES	6219 Authority Road, Jacksonville, FL 32221 phone (904) 777-4812 fax 904-777-4262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/ADD TO: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
Bill Canelos	phone (904) 777-4812 fax 904-777-4262	phone (808) 765-0980		

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)	1,3,5 Trichloro TCLP Metals	1,3,5 Trichloro TCLP Semivolatile	1,3,5 Trichloro TCLP Volatile	PH	Cyanide	PCB	Reactivity	Corrosivity	Ignitability	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	302-0002-S-0226-00	WASTE characterization	S	7-26-00	1500	C	14	X	X	X	X	X	X	X	X	X	Comp		105709
2	302-0002-S-0226-00	WASTE characterization	S	7-26-00	1625	C	14	X	X	X	X	X	X	X	X	X	Comp		105710
3																			
4																		Sample containers sealed in Ziplock type bags and placed on wet ice for transport (PM)	
5																			
6																			
7																			
8																		Samples transferred to coolers for expedition (PM)	
9																			
10																			

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Richard Moriarity, Environmental Science Associates, Inc.		

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Richard Moriarity	7/26/00	18:00	Printed Name and Signature: [illegible]	7/26/00	1800
Printed Name and Signature: [illegible]	7/26/00	17:00	Printed Name and Signature: [illegible]	7/26/00	17:00

Distribution | | Original - Laboratory (To be returned with Analytical Report). | | Copy 1 - Project File. | | Copy 2 - PMO

[illegible] 7/28/00 900

Appendix C

Certificate of Treatment

Kedesh, Inc.

Soil Recycling

11122 Waycross Hwy.
Screven, GA 31560
Tel: (912) 579-9979 • Fax: (912)

CERTIFICATE OF TREATMENT

Under the jurisdiction of the State of Georgia, granted by Permit No. 2951-020-12361, Kedesh, Inc. does, hereby, certify that the Non-Hazardous Petroleum Contaminated Soils received from:

GENERATOR

NAS Cecil Field
6219 Authority Ave.
Jacksonville, FL

JOB LOCATION

Project CTO - 0002

AGENT FOR GENERATOR: Environmental Recovery, Inc. - P.O. #2316

DATE(S) RECEIVED: 18,19,20,28-September-2000

TOTAL AMOUNT RECEIVED: 672.37 Tons
treated and recycled in accordance with state regulation.

Ron Twilley
General Manager

Witness my hand and official seal this 31st day of January ,2001.

Notary Public
My commission expires 16 September 2002.

Appendix D

Certification of Clean Fill

STL
Committed To Your Success

LOG NO: C0-07521
Received: 25 JUL 00
Reported: 26 JUL 00

Mr. Bill Canelos
CCI/JA Jones Env. Svcs.
8936 Western Way, Suite 10
Jacksonville, FL 32256

CC: Lisa Schwan (CCI, Atlanta, GA)

Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726
Page 1

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
07521-1	002-CPI-S-0724-00	07-24-00/15:15	002-CPI

PARAMETER	07521-1
Petroleum Hydrocarbons (FL-PRO)	
Petroleum Range Organics (FL-PRO), ug/kg dw	23000
Surrogate - o-Terphenyl	104 %
Surrogate - Nonatriacontane (C39)	105 %
Dilution Factor	1
Prep Date	07.25.00
Analysis Date	07.25.00
Batch ID	FLS080
Prep Method	3550
Analyst	HAH

STL
Committed To Your Success

LOG NO: C0-07521
Received: 25 JUL 00
Reported: 26 JUL 00

Mr. Bill Canelos
CCI/JA Jones Env. Svcs.
8936 Western Way, Suite 10
Jacksonville, FL 32256

CC: Lisa Schwan (CCI, Atlanta, GA)

Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726
Page 2

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
07521-1	002-CPI-S-0724-00	07-24-00/15:15	002-CPI

PARAMETER	07521-1
Polynuclear Aromatic Hydrocarbons (8310)	
Acenaphthene, ug/kg dw	<11
Acenaphthylene, ug/kg dw	<11
Anthracene, ug/kg dw	<11
Benzo(a)anthracene, ug/kg dw	<11
Benzo(a)pyrene, ug/kg dw	22
Benzo(b)fluoranthene, ug/kg dw	86 T
Benzo(g,h,i)perylene, ug/kg dw	38 T
Benzo(k)fluoranthene, ug/kg dw	64 T
Chrysene, ug/kg dw	21
Dibenzo(a,h)anthracene, ug/kg dw	82
Fluoranthene, ug/kg dw	62 T
Fluorene, ug/kg dw	<11
Indeno(1,2,3-cd)pyrene, ug/kg dw	<11
Naphthalene, ug/kg dw	<11
Phenanthrene, ug/kg dw	<11
Pyrene, ug/kg dw	31
1-Methylnaphthalene, ug/kg dw	<11
2-Methylnaphthalene, ug/kg dw	<11
Surrogate - 2-Chloroanthracene	115 %
Dilution Factor	1
Prep Date	07.25.00
Analysis Date	07.25.00
Batch ID	PAS252
Prep Method	3550
Analyst	SB

Committed To Your Success

LOG NO: C0-07521
Received: 25 JUL 00
Reported: 26 JUL 00

Mr. Bill Canelos
CCI/JA Jones Env. Svcs.
8936 Western Way, Suite 10
Jacksonville, FL 32256

CC: Lisa Schwan (CCI, Atlanta, GA)

Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
07521-1	002-CPI-S-0724-00	07-24-00/15:15	002-CPI

PARAMETER	07521-1
Volatile Organic Compounds (8260)	
Benzene, ug/kg dw	<5.6
Bromobenzene, ug/kg dw	<5.6
Bromochloromethane, ug/kg dw	<5.6
Bromodichloromethane, ug/kg dw	<5.6
Bromoform, ug/kg dw	<5.6
Bromomethane (Methyl bromide), ug/kg dw	<5.6
Carbon tetrachloride, ug/kg dw	<5.6
Chlorobenzene, ug/kg dw	<5.6
Chloroethane, ug/kg dw	<5.6
Chloroform, ug/kg dw	<5.6
Chloromethane, ug/kg dw	<5.6
2-Chlorotoluene, ug/kg dw	<5.6
4-Chlorotoluene, ug/kg dw	<5.6
Dibromochloromethane, ug/kg dw	<5.6
Dibromomethane (Methylene bromide), ug/kg dw	<5.6
1,2-Dibromoethane (EDB), ug/kg dw	<5.6
1,2-Dichlorobenzene, ug/kg dw	<5.6
1,3-Dichlorobenzene, ug/kg dw	<5.6
1,4-Dichlorobenzene, ug/kg dw	<5.6
Dichlorodifluoromethane, ug/kg dw	<5.6
1,1-Dichloroethane, ug/kg dw	<5.6
1,2-Dichloroethane, ug/kg dw	<5.6
1,1-Dichloroethene, ug/kg dw	<5.6
cis-1,2-Dichloroethene, ug/kg dw	<5.6
trans-1,2-Dichloroethene, ug/kg dw	<5.6

Committed To Your Success

LOG NO: C0-07521
Received: 25 JUL 00
Reported: 26 JUL 00

Mr. Bill Canelos
CCI/JA Jones Env. Svcs.
8936 Western Way, Suite 10
Jacksonville, FL 32256

CC: Lisa Schwan (CCI, Atlanta, GA)

Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726
Page 4

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
07521-1	002-CPI-S-0724-00	07-24-00/15:15	002-CPI

PARAMETER	07521-1
1,2-Dichloropropane, ug/kg dw	<5.6
1,3-Dichloropropane, ug/kg dw	<5.6
2,2 Dichloropropane, ug/kg dw	<5.6
cis-1,3-Dichloropropene, ug/kg dw	<5.6
trans-1,3-Dichloropropene, ug/kg dw	<5.6
Ethylbenzene, ug/kg dw	<5.6
Hexachlorobutadiene, ug/kg dw	<5.6
Isopropylbenzene (Cumene), ug/kg dw	<5.6
p-Isopropyltoluene, ug/kg dw	<5.6
Methylene chloride (Dichloromethane), ug/kg dw	<5.6
Methyl t-butyl ether (MTBE), ug/kg dw	<5.6
Naphthalene, ug/kg dw	<5.6
n-Butylbenzene, ug/kg dw	<5.6
n-Propylbenzene , ug/kg dw	<5.6
sec-Butylbenzene, ug/kg dw	<5.6
Styrene, ug/kg dw	<5.6
t-Butylbenzene, ug/kg dw	<5.6
1,1,1,2-Tetrachloroethane, ug/kg dw	<5.6
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.6
Tetrachloroethene, ug/kg dw	<5.6
Toluene, ug/kg dw	<5.6
1,1,1-Trichloroethane, ug/kg dw	<5.6
1,1,2-Trichloroethane, ug/kg dw	<5.6
1,2,3-Trichlorobenzene, ug/kg dw	<5.6
1,2,4-Trichlorobenzene, ug/kg dw	<5.6
Trichloroethene, ug/kg dw	<5.6

Commited To Your Success

LOG NO: C0-07521
Received: 25 JUL 00
Reported: 26 JUL 00

Mr. Bill Canelos
CCI/JA Jones Env. Svcs.
8936 Western Way, Suite 10
Jacksonville, FL 32256

CC: Lisa Schwan (CCI, Atlanta, GA)

Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172S00726

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
07521-1	002-CPI-S-0724-00	07-24-00/15:15	002-CPI

PARAMETER	07521-1
Trichlorofluoromethane, ug/kg dw	<5.6
1,2,3-Trichloropropane, ug/kg dw	<5.6
1,2,4-Trimethylbenzene, ug/kg dw	<5.6
1,3,5-Trimethylbenzene, ug/kg dw	<5.6
Vinyl chloride, ug/kg dw	<5.6
o-Xylene, ug/kg dw	<5.6
m&p-Xylene, ug/kg dw	<11
Surrogate - Dibromofluoromethane	91 %
Surrogate - Toluene-d8	103 %
Surrogate - 4-Bromofluorobenzene	96 %
Dilution Factor	1
Prep Date	07.25.00
Analysis Date	07.25.00
Batch ID	KAS097
Prep Method	5035
Analyst	DWB
Percent Solids	88

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

Committed To Your Success

LOG NO: C0-07521
Received: 25 JUL 00
Reported: 26 JUL 00

Mr. Bill Canelos
CCI/JA Jones Env. Svcs.
8936 Western Way, Suite 10
Jacksonville, FL 32256

CC: Lisa Schwan (CCI, Atlanta, GA)

Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726
Page 6

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-2	Method Blank	
07521-3	Lab Control Standard Result	
07521-5	Lab Control Standard % Recovery	
07521-22	LCS Accuracy Control Limit (%R)	
07521-9	Matrix Spike Result	

PARAMETER	07521-2	07521-3	07521-5	07521-22	07521-9	
Petroleum Hydrocarbons (FL-PRO)						
Petroleum Range Organics (FL-PRO), ug/kg dw	<2500	118075	104 %	63 - 153 %	153348	
Surrogate - o-Terphenyl	111 %	133	106 %	---	133	
Surrogate - Nonatriacontane (C39)	80 %	36.5	73 %	---		---
Prep Date	56.0					
Dilution Factor	1	1	1		07.25.00	07.25.0
Analysis Date	07.25.00	07.25.00	07.25.00	---	07.25.00	
Batch ID	FLS080	FLS080	FLS080	---	FLS080	
Prep Method	3550	3550	3550	---	3550	
Analyst	HAH	HAH	HAH	---	HAH	

Commited To Your Success

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CC: Lisa Schwan (CCI, Atlanta, GA)

Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726
Page 7

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-2	Method Blank	
07521-3	Lab Control Standard Result	
07521-5	Lab Control Standard % Recovery	
07521-22	LCS Accuracy Control Limit (%R)	
07521-9	Matrix Spike Result	

PARAMETER	07521-2	07521-3	07521-5	07521-22	07521-9
Polynuclear Aromatic Hydrocarbons (8310)					
Acenaphthene, ug/kg dw	<10	---	---	---	---
Acenaphthylene, ug/kg dw	<10	6.7	67 %	39 - 137 %	229
Anthracene, ug/kg dw	<10	---	---	---	---
Benzo(a)anthracene, ug/kg dw	<10	---	---	---	---
Benzo(a)pyrene, ug/kg dw	<10	---	---	---	---
Benzo(b)fluoranthene, ug/kg dw	<10	---	---	---	---
Benzo(g,h,i)perylene, ug/kg dw	<10	---	---	---	---
Benzo(k)fluoranthene, ug/kg dw	<10	10.6	106 %	68 - 124 %	382
Chrysene, ug/kg dw	<10	9.6	96 %	65 - 132 %	367
Dibenzo(a,h)anthracene, ug/kg dw	<10	---	---	---	---
Fluoranthene, ug/kg dw	<10	---	---	---	---
Fluorene, ug/kg dw	<10	---	---	---	---
Indeno(1,2,3-cd)pyrene, ug/kg dw	<10	---	---	---	---
Naphthalene, ug/kg dw	<10	---	---	---	---
Phenanthrene, ug/kg dw	<10	8.3	83 %	---	348
Pyrene, ug/kg dw	<10	9.7	97 %	59 - 127 %	351
1-Methylnaphthalene, ug/kg dw	<10	---	---	61 - 120 %	---
2-Methylnaphthalene, ug/kg dw	<10	---	---	---	---
Surrogate - 2-Chloroanthracene	75 %	95 %	95 %	---	103 %
Dilution Factor	1	1	1	---	1
Prep Date	07.25.00	07.25.00	07.25.00	---	07.25.00
Analysis Date	07.25.00	07.25.00	07.25.00	---	07.25.00
Batch ID	PAS252	PAS252	PAS252	---	PAS252
Prep Method	3550	3550	3550	---	3550
Analyst	SB	SB	SB	---	SB

Committed To Your Success

LOG NO: C0-07521
Received: 25 JUL 00
Reported: 26 JUL 00

Mr. Bill Canelos
CCI/JA Jones Env. Svcs.
8936 Western Way, Suite 10
Jacksonville, FL 32256

CC: Lisa Schwan (CCI, Atlanta, GA)

Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726
Page 8

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-2	Method Blank	
07521-3	Lab Control Standard Result	
07521-5	Lab Control Standard % Recovery	
07521-22	LCS Accuracy Control Limit (%R)	
07521-9	Matrix Spike Result	

PARAMETER	07521-2	07521-3	07521-5	07521-22	07521-9
Volatile Organic Compounds (8260)					
Benzene, ug/kg dw	<5.0	48	96 %	50 - 150 %	55.7
Bromobenzene, ug/kg dw	<5.0	---	---	---	---
Bromochloromethane, ug/kg dw	<5.0	---	---	---	---
Bromodichloromethane, ug/kg dw	<5.0	---	---	---	---
Bromoform, ug/kg dw	<5.0	---	---	---	---
Bromomethane (Methyl bromide), ug/kg dw	<5.0	---	---	---	---
Carbon tetrachloride, ug/kg dw	<5.0	---	---	---	---
Chlorobenzene, ug/kg dw	<5.0	55	110 %	50 - 150 %	61.6
Chloroethane, ug/kg dw	<5.0	---	---	---	---
Chloroform, ug/kg dw	<5.0	---	---	---	---
Chloromethane, ug/kg dw	<5.0	---	---	---	---
2-Chlorotoluene, ug/kg dw	<5.0	---	---	---	---
4-Chlorotoluene, ug/kg dw	<5.0	---	---	---	---
Dibromochloromethane, ug/kg dw	<5.0	---	---	---	---
Dibromomethane (Methylene bromide), ug/kg dw	<5.0	---	---	---	---
1,2-Dibromoethane (EDB), ug/kg dw	<5.0	---	---	---	---
1,2-Dichlorobenzene, ug/kg dw	<5.0	---	---	---	---
1,3-Dichlorobenzene, ug/kg dw	<5.0	---	---	---	---
1,4-Dichlorobenzene, ug/kg dw	<5.0	---	---	---	---

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LOG NO: C0-07521
Received: 25 JUL 00
Reported: 26 JUL 00

Mr. Bill Canelos
CCI/JA Jones Env. Svcs.
8936 Western Way, Suite 10
Jacksonville, FL 32256

CC: Lisa Schwan (CCI, Atlanta, GA)

Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726
Page 9

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-2	Method Blank	
07521-3	Lab Control Standard Result	
07521-5	Lab Control Standard % Recovery	
07521-22	LCS Accuracy Control Limit (%R)	
07521-9	Matrix Spike Result	

PARAMETER	07521-2	07521-3	07521-5	07521-22	07521-9
Dichlorodifluoromethane, ug/kg dw	<5.0	---	---	---	---
1,1-Dichloroethane, ug/kg dw	<5.0	---	---	---	---
1,2-Dichloroethane, ug/kg dw	<5.0	---	---	---	---
1,1-Dichloroethene, ug/kg dw	<5.0	45	90 %	50 - 150 %	52.8
cis-1,2-Dichloroethene, ug/kg dw	<5.0	---	---	---	---
trans-1,2-Dichloroethene, ug/kg dw	<5.0	---	---	---	---
1,2-Dichloropropane, ug/kg dw	<5.0	---	---	---	---
1,3-Dichloropropane, ug/kg dw	<5.0	---	---	---	---
2,2 Dichloropropane, ug/kg dw	<5.0	---	---	---	---
cis-1,3-Dichloropropene, ug/kg dw	<5.0	---	---	---	---
trans-1,3-Dichloropropene, ug/kg dw	<5.0	---	---	---	---
Ethylbenzene, ug/kg dw	<5.0	---	---	---	---
Hexachlorobutadiene, ug/kg dw	<5.0	---	---	---	---
Isopropylbenzene (Cumene), ug/kg dw	<5.0	---	---	---	---
p-Isopropyltoluene, ug/kg dw	<5.0	---	---	---	---
Methylene chloride (Dichloromethane), ug/kg dw	<5.0	---	---	---	---
Methyl t-butyl ether (MTBE), ug/kg dw	<5.0	---	---	---	---
Naphthalene, ug/kg dw	<5.0	---	---	---	---

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Code: 172500726
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-2	Method Blank	
07521-3	Lab Control Standard Result	
07521-5	Lab Control Standard % Recovery	
07521-22	LCS Accuracy Control Limit (%R)	
07521-9	Matrix Spike Result	

PARAMETER	07521-2	07521-3	07521-5	07521-22	07521-9
n-Butylbenzene, ug/kg dw	<5.0	---	---	---	---
n-Propylbenzene , ug/kg dw	<5.0	---	---	---	---
sec-Butylbenzene, ug/kg dw	<5.0	---	---	---	---
Styrene, ug/kg dw	<5.0	---	---	---	---
t-Butylbenzene, ug/kg dw	<5.0	---	---	---	---
1,1,1,2-Tetrachloroethane, ug/kg dw	<5.0	---	---	---	---
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.0	---	---	---	---
Tetrachloroethene, ug/kg dw	<5.0	---	---	---	---
Toluene, ug/kg dw	<5.0	58	116 %	50 - 150 %	60.7
1,1,1-Trichloroethane, ug/kg dw	<5.0	---	---	---	---
1,1,2-Trichloroethane, ug/kg dw	<5.0	---	---	---	---
1,2,3-Trichlorobenzene, ug/kg dw	<5.0	---	---	---	---
1,2,4-Trichlorobenzene, ug/kg dw	<5.0	---	---	---	---
Trichloroethene, ug/kg dw	<5.0	52	104 %	50 - 150 %	58.6
Trichlorofluoromethane, ug/kg dw	<5.0	---	---	---	---
1,2,3-Trichloropropane, ug/kg dw	<5.0	---	---	---	---
1,2,4-Trimethylbenzene, ug/kg dw	<5.0	---	---	---	---
1,3,5-Trimethylbenzene, ug/kg dw	<5.0	---	---	---	---
Vinyl chloride, ug/kg dw	<5.0	---	---	---	---
o-Xylene, ug/kg dw	<5.0	---	---	---	---

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Reported: 26 JUL 00

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Contract No.: CTO 002
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Sampled By: Client
Code: 172500726
Page 11

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-2	Method Blank	
07521-3	Lab Control Standard Result	
07521-5	Lab Control Standard % Recovery	
07521-22	LCS Accuracy Control Limit (%R)	
07521-9	Matrix Spike Result	

PARAMETER	07521-2	07521-3	07521-5	07521-22	07521-9
m&p-Xylene, ug/kg dw	<10	---	---	---	---
Surrogate - Dibromofluoromethane	88 %	89 %	89 %	---	93 %
Surrogate - Toluene-d8	100 %	103 %	103 %	---	100 %
Surrogate - 4-Bromofluorobenzene	104 %	103 %	103 %	---	100 %
Dilution Factor	1	1	1	---	1
Prep Date	---	---	---	---	07.25.00
Analysis Date	07.25.00	07.25.00	07.25.00	---	07.25.00
Batch ID	KAS097	KAS097	KAS097	---	KAS097
Prep Method	5030	5030	5030	---	5035
Analyst	DWB	DWB	DWB	---	DWB

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LOG NO: C0-07521
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CC: Lisa Schwan (CCI, Atlanta, GA)

Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-10	Matrix Spike Duplicate Result	
07521-11	Matrix Spike % Recovery	
07521-12	Matrix Spike Duplicate % Recovery	
07521-13	Precision (%RPD) MS/MSD	
07521-14	MS Precision Advisory Limit (%RPD)	

PARAMETER	07521-10	07521-11	07521-12	07521-13	07521-14
Petroleum Hydrocarbons (FL-PRO)					
Petroleum Range Organics (FL-PRO), ug/kg dw	170034	115 %	130 %	12	30
Surrogate - o-Terphenyl	134	107 %	107 %	---	---
Surrogate - Nonatriacontane (C39)	56.0	112 %	112 %	---	---
Dilution Factor	1	1	1	---	---
Prep Date	07.25.00	07.25.00	07.25.00	---	---
Analysis Date	07.25.00	07.25.00	07.25.00	---	---
Batch ID	FLS080	FLS080	FLS080	---	---
Prep Method	3550	3550	3550	---	---
Analyst	HAH	HAH	HAH	---	---
Polynuclear Aromatic Hydrocarbons (8310)					
Acenaphthylene, ug/kg dw	241	69 %	72 %	5	67
Benzo(k)fluoranthene, ug/kg dw	570	95 %	152 %	39	53
Chrysene, ug/kg dw	362	104 %	102 %	1	45
Phenanthrene, ug/kg dw	334	105 %	100 %	4	48
Pyrene, ug/kg dw	380	96 %	105 %	8	49
Surrogate - 2-Chloroanthracene	115 %	103 %	115 %	---	---
Dilution Factor	1	1	1	---	---
Prep Date	07.25.00	07.25.00	07.25.00	---	---
Analysis Date	07.25.00	07.25.00	07.25.00	---	---
Batch ID	PAS252	PAS252	PAS252	---	---
Prep Method	3550	3550	3550	---	---
Analyst	SB	SB	SB	---	---

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LOG NO: C0-07521
Received: 25 JUL 00
Reported: 26 JUL 00

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CCI/JA Jones Env. Svcs.
8936 Western Way, Suite 10
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CC: Lisa Schwan (CCI, Atlanta, GA)

Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-10	Matrix Spike Duplicate Result	
07521-11	Matrix Spike % Recovery	
07521-12	Matrix Spike Duplicate % Recovery	
07521-13	Precision (%RPD) MS/MSD	
07521-14	MS Precision Advisory Limit (%RPD)	

PARAMETER	07521-10	07521-11	07521-12	07521-13	07521-14
Volatile Organic Compounds (8260)					
Benzene, ug/kg dw	57.8	97 %	101 %	5	30
Chlorobenzene, ug/kg dw	63.6	107 %	112 %	5	30
1,1-Dichloroethene, ug/kg dw	55.1	92 %	97 %	5	30
Toluene, ug/kg dw	66.4	106 %	116 %	9	30
Trichloroethene, ug/kg dw	59.1	102 %	104 %	2	30
Surrogate - Dibromofluoromethane	91 %	93 %	91 %	---	---
Surrogate - Toluene-d8	100 %	100 %	100 %	---	---
Surrogate - 4-Bromofluorobenzene	96 %	100 %	96 %	---	---
Dilution Factor	1	1	1	---	---
Prep Date	07.25.00	07.25.00	07.25.00	---	---
Analysis Date	07.25.00	07.25.00	07.25.00	---	---
Batch ID	KAS097	KAS097	KAS097	---	---
Prep Method	5035	5035	5035	---	---
Analyst	DWB	DWB	DWB	---	---

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Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-23	MS Accuracy Advisory Limit (%R)	
07521-24	Surrogate Recovery Limits	

PARAMETER	07521-23	07521-24
Petroleum Hydrocarbons (FL-PRO)		
Petroleum Range Organics (FL-PRO), ug/kg dw	62 - 204 %	---
Surrogate - o-Terphenyl	---	62 - 109 %
Surrogate - Nonatriacontane (C39)	---	60 - 118 %
Polynuclear Aromatic Hydrocarbons (8310)		
Acenaphthylene, ug/kg dw	12 - 145 %	---
Benzo(k)fluoranthene, ug/kg dw	22 - 130 %	---
Chrysene, ug/kg dw	27 - 140 %	---
Phenanthrene, ug/kg dw	40 - 121 %	---
Pyrene, ug/kg dw	29 - 133 %	---
Surrogate - 2-Chloroanthracene	---	17 - 160 %
Volatile Organic Compounds (8260)		
Bromobenzene, ug/kg dw	50-150 %	---
Chlorobenzene, ug/kg dw	50 - 150 %	---
1,1-Dichloroethene, ug/kg dw	50 - 150 %	---
Toluene, ug/kg dw	50 - 150 %	---
Trichloroethene, ug/kg dw	50 - 150 %	---
Surrogate - Dibromofluoromethane	---	70 - 130 %
Surrogate - Toluene-d8	---	70 - 130 %
Surrogate - 4-Bromofluorobenzene	---	70 - 130 %

Rick Hayes, Project Manager

Final Page Of Report

Appendix E

Analytical Laboratory Reports for Confirmatory Soil Samples

TestAmerica
INCORPORATED

Sample Identification

002-AST80 N-S-0825-00

Matrix: Soil
% Dry Weight: 82.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 205468
Instrument: HP-10

Lab Sample ID: 00-A121139
Date Sampled: 8/25/00
Date Received: 8/26/00
Analysis Date: 9/ 5/00
Analysis Time: 18:20
Sample QC Group: 3953

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	133.	
71-43-2	Benzene	2.56	U
108-86-1	Bromobenzene	2.56	U
74-97-5	Bromochloromethane	2.56	U
75-25-2	Bromoform	2.56	U
74-83-9	Bromomethane	2.56	U
78-93-3	2-Butanone	63.5	U
104-51-8	n-Butylbenzene	2.56	U
135-98-8	sec-Butylbenzene	2.56	U
98-06-6	t-Butylbenzene	2.56	U
75-15-0	Carbon disulfide	2.56	U
56-23-5	Carbon tetrachloride	2.56	U
108-90-7	Chlorobenzene	2.56	U
75-00-3	Chloroethane	2.56	U
110-75-8	2-Chloroethylvinylether	2.56	U
67-66-3	Chloroform	2.56	U
74-87-3	Chloromethane	2.56	U
95-49-8	2-Chlorotoluene	2.56	U
106-43-4	4-Chlorotoluene	2.56	U
96-12-8	1,2-Dibromo-3-chloropropane	12.7	U
124-48-1	Dibromochloromethane	2.56	U
106-93-4	1,2-Dibromoethane	2.56	U
74-95-3	Dibromomethane	2.56	U
95-50-1	1,2-Dichlorobenzene	2.56	U
541-73-1	1,3-Dichlorobenzene	2.56	U
106-46-7	1,4-Dichlorobenzene	2.56	U
75-71-8	Dichlorodifluoromethane	2.56	U
75-34-3	1,1-Dichloroethane	2.56	U
107-06-2	1,2-Dichloroethane	2.56	U
75-35-4	1,1-Dichloroethene	2.56	U

TestAmerica
INCORPORATED

Sample Identification

002-AST80 N-S-0825-00

Matrix: Soil
% Dry Weight: 82.
Units: ug/kg dry weight

Lab Sample ID: 00-A121139
Date Sampled: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
156-59-2	cis-1,2-Dichloroethene	2.56	U
156-60-5	trans-1,2-Dichloroethene	2.56	U
78-87-5	1,2-Dichloropropane	2.56	U
142-28-9	1,3-Dichloropropane	2.56	U
594-20-7	2,2-Dichloropropane	2.56	U
563-58-6	1,1-Dichloropropene	2.56	U
10061-01-5	cis-1,3-Dichloropropene	2.56	U
10061-02-6	trans-1,3-Dichloropropene	2.56	U
100-41-4	Ethylbenzene	2.56	U
87-68-3	Hexachlorobutadiene	2.56	U
591-78-6	2-Hexanone	12.7	U
98-82-8	Isopropylbenzene	2.56	U
99-87-6	4-Isopropyltoluene	2.56	U
108-10-1	4-Methyl-2-pentanone	12.7	U
75-09-2	Methylene chloride	6.34	U
91-20-3	Naphthalene	6.34	U
103-65-1	n-Propylbenzene	2.56	U
100-42-5	Styrene	2.56	U
630-20-6	1,1,1,2-Tetrachloroethane	2.56	U
79-34-5	1,1,2,2-Tetrachloroethane	2.56	U
127-18-4	Tetrachloroethene	2.56	U
108-88-3	Toluene	2.56	U
87-61-6	1,2,3-Trichlorobenzene	2.56	U
120-82-1	1,2,4-Trichlorobenzene	2.56	U
71-55-6	1,1,1-Trichloroethane	2.56	U
79-00-5	1,1,2-Trichloroethane	2.56	U
79-01-6	Trichloroethene	2.56	U
96-18-4	1,2,3-Trichloropropane	2.56	U
95-63-6	1,2,4-Trimethylbenzene	2.56	U
108-67-8	1,3,5-Trimethylbenzene	2.56	U
75-01-4	Vinyl chloride	2.56	U
1330-20-7	Xylenes, Total	2.56	U
75-27-4	Bromodichloromethane	2.56	U
75-69-4	Trichlorofluoromethane	2.56	U

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TestAmerica
INCORPORATED

Sample Identification

002-AST80 N-S-0825-00

Matrix: Soil
% Dry Weight: 82.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8270C
Delivery Group: 205468
Instrument: HP-26
Grams Extracted: 30.4 g
Extract Vol: 1.0 ml

Lab Sample ID: 00-A121139
Date Sampled: 8/25/00
Date Received: 8/26/00
Analysis Date: 9/ 2/00
Analysis Time: 23:56
Sample QC Group: 6939

Extraction Date: 8/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
83-32-9	Acenaphthene	402	U
208-96-8	Acenaphthylene	402	U
120-12-7	Anthracene	402	U
56-55-3	Benzo(a)anthracene	402	U
50-32-8	Benzo(a)pyrene	402	U
205-99-2	Benzo(b)fluoranthene	402	U
191-24-2	Benzo(g,h,i)perylene	402	U
207-08-9	Benzo(k)fluoranthene	402	U
101-55-3	4-Bromophenylphenylether	402	U
85-68-7	Butylbenzylphthalate	402	U
86-74-8	Carbazole	402	U
59-50-7	4-Chloro-3-methylphenol	402	U
106-47-8	4-Chloroaniline	402	U
111-91-1	bis(2-Chloroethoxy)methane	402	U
111-44-4	bis(2-Chloroethyl)ether	402	U
39638-32-9	bis(2-Chloroisopropyl)ether	402	U
91-58-7	2-Chloronaphthalene	402	U
95-57-8	2-Chlorophenol	402	U
7005-72-3	4-Chlorophenylphenylether	402	U
218-01-9	Chrysene	402	U
132-64-9	Dibenzofuran	402	U
53-70-3	Dibenz(a,h)anthracene	402	U
95-50-1	1,2-Dichlorobenzene	402	U
541-73-1	1,3-Dichlorobenzene	402	U
106-46-7	1,4-Dichlorobenzene	402	U
91-94-1	3,3'-Dichlorobenzidine	402	U
120-83-2	2,4-Dichlorophenol	402	U
84-66-2	Diethylphthalate	402	U

TestAmerica
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Sample Identification

002-AST80 N-S-0825-00

Matrix: Soil
% Dry Weight: 82.
Units: ug/kg dry weight

Lab Sample ID: 00-A121139
Date Sampled: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
105-67-9	2,4-Dimethylphenol	402	U
131-11-3	Dimethylphthalate	402	U
84-74-2	Di-n-butylphthalate	402	U
534-52-1	4,6-Dinitro-2-methylphenol	402	U
51-28-5	2,4-Dinitrophenol	402	U
121-14-2	2,4-dinitrotoluene	402	U
606-20-2	2,6-Dinitrotoluene	402	U
117-84-0	Di-n-octylphthalate	402	U
206-44-0	Fluoranthene	402	U
86-73-7	Fluorene	402	U
118-74-1	Hexachlorobenzene	402	U
87-68-3	Hexachlorobutadiene	402	U
77-47-4	Hexachlorocyclopentadiene	402	U
67-72-1	Hexachloroethane	402	U
193-39-5	Indeno(1,2,3-cd)pyrene	402	U
78-59-1	Isophorone	402	U
91-57-6	2-Methylnaphthalene	402	U
95-48-7	2-Methylphenol	402	U
106-44-5	m,p-Methylphenol	402	U
91-20-3	Naphthalene	402	U
88-74-4	2-Nitroaniline	402	U
99-09-2	3-Nitroaniline	402	U
100-01-6	4-Nitroaniline	402	U
98-95-3	Nitrobenzene	402	U
88-75-5	2-Nitrophenol	402	U
100-02-7	4-Nitrophenol	402	U
621-64-7	N-nitrosodi-n-propylamine	402	U
86-30-6	N-nitrosodiphenylamine	402	U
87-86-5	Pentachlorophenol	402	U
85-01-8	Phenanthrene	402	U
108-95-2	Phenol	402	U
129-00-0	Pyrene	402	U
117-81-7	Bis(2-ethylhexyl)phthalate	402	U
120-82-1	1,2,4-Trichlorobenzene	402	U

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TestAmerica
INCORPORATED

Sample Identification

002-AST80 N-S-0825-00

Matrix: Soil
% Dry Weight: 82.
Units: ug/kg dry weight

Lab Sample ID: 00-A121139
Date Sampled: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
95-95-4	2,4,5-Trichlorophenol	402	U
88-06-2	2,4,6-Trichlorophenol	402	U

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TestAmerica
INCORPORATED

Sample Identification

002-AST80 N-S-0825-00

Matrix: Soil
% Dry Weight: 82.
Units: ug/kg dry weight

Lab Sample ID: 00-A121139
Date Sampled: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG

Dilution Factor: 1.
Analysis Method: FPRO
Delivery Group: 205468
Instrument: PE-3
Grams Extracted: 25. g
Extract Vol: 2.0 ml

Analysis Date: 8/30/00
Analysis Time: 12:39
Sample QC Group: 6960

Extraction Date: 8/29/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	.....TRPH	12200	.... U

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TestAmerica
INCORPORATED

Sample Identification

002-AST80 N-S-0825-00

Matrix: Soil
% Dry Weight: 82.
Units: mg/kg dry weight
Dilution Factor: 1.
Analysis Method: SW6010B
Delivery Group: 205468
Instrument:
Mercury DilFact: 1.
Mercury Method: SW7471
Mercury Instrument:

Lab Sample ID: 00-A121139
Date Sampled: 8/25/00
Date Received: 8/26/00
Analysis Date: 9/ 8/00
Analysis Time: 7:53
Sample QC Group: 4751

Mercury Date: 9/ 8/00
Mercury Time: 7:53
Mercury QC Group: 4751

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
7440-38-2	Arsenic	1.21	U
7440-43-9	Cadmium	1.21	U
7440-47-3	Chromium	21.1	
7439-92-1	Lead	8.73	

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Sample Identification

002-AST80 E-S-0825-00

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight
Dilution Factor: 50.
Analysis Method: SW8260B
Delivery Group: 205468
Instrument: HP-10

Lab Sample ID: 00-A121140
Date Sampled: 8/25/00
Date Received: 8/26/00
Analysis Date: 9/ 6/00
Analysis Time: 13:47
Sample QC Group: 3953

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	2910	U
71-43-2	Benzene	116.	U
108-86-1	Bromobenzene	116.	U
74-97-5	Bromochloromethane	116.	U
75-25-2	Bromoform	116.	U
74-83-9	Bromomethane	116.	U
78-93-3	2-Butanone	2910	U
104-51-8	n-Butylbenzene	116.	U
135-98-8	sec-Butylbenzene	116.	U
98-06-6	t-Butylbenzene	116.	U
75-15-0	Carbon disulfide	116.	U
56-23-5	Carbon tetrachloride	116.	U
108-90-7	Chlorobenzene	116.	U
75-00-3	Chloroethane	116.	U
110-75-8	2-Chloroethylvinylether	116.	U
67-66-3	Chloroform	116.	U
74-87-3	Chloromethane	116.	U
95-49-8	2-Chlorotoluene	116.	U
106-43-4	4-Chlorotoluene	116.	U
96-12-8	1,2-Dibromo-3-chloropropane	581.	U
124-48-1	Dibromochloromethane	116.	U
106-93-4	1,2-Dibromoethane	116.	U
74-95-3	Dibromomethane	116.	U
95-50-1	1,2-Dichlorobenzene	116.	U
541-73-1	1,3-Dichlorobenzene	116.	U
106-46-7	1,4-Dichlorobenzene	116.	U
75-71-8	Dichlorodifluoromethane	116.	U
75-34-3	1,1-Dichloroethane	116.	U
107-06-2	1,2-Dichloroethane	116.	U
75-35-4	1,1-Dichloroethene	116.	U

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Sample Identification

002-AST80 E-S-0825-00

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight

Lab Sample ID: 00-A121140
Date Sampled: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
156-59-2	cis-1,2-Dichloroethene	116.	U
156-60-5	trans-1,2-Dichloroethene	116.	U
78-87-5	1,2-Dichloropropane	116.	U
142-28-9	1,3-Dichloropropane	116.	U
594-20-7	2,2-Dichloropropane	116.	U
563-58-6	1,1-Dichloropropene	116.	U
10061-01-5	cis-1,3-Dichloropropene	116.	U
10061-02-6	trans-1,3-Dichloropropene	116.	U
100-41-4	Ethylbenzene	116.	U
87-68-3	Hexachlorobutadiene	116.	U
591-78-6	2-Hexanone	581.	U
98-82-8	Isopropylbenzene	116.	U
99-87-6	4-Isopropyltoluene	116.	U
108-10-1	4-Methyl-2-pentanone	581.	U
75-09-2	Methylene chloride	291.	U
91-20-3	Naphthalene	291.	U
103-65-1	n-Propylbenzene	116.	U
100-42-5	Styrene	116.	U
630-20-6	1,1,1,2-Tetrachloroethane	116.	U
79-34-5	1,1,2,2-Tetrachloroethane	116.	U
127-18-4	Tetrachloroethene	116.	U
108-88-3	Toluene	116.	U
87-61-6	1,2,3-Trichlorobenzene	116.	U
120-82-1	1,2,4-Trichlorobenzene	116.	U
71-55-6	1,1,1-Trichloroethane	116.	U
79-00-5	1,1,2-Trichloroethane	116.	U
79-01-6	Trichloroethene	116.	U
96-18-4	1,2,3-Trichloropropane	116.	U
95-63-6	1,2,4-Trimethylbenzene	116.	U
108-67-8	1,3,5-Trimethylbenzene	116.	U
75-01-4	Vinyl chloride	116.	U
1330-20-7	Xylenes, Total	116.	U
75-27-4	Bromodichloromethane	116.	U
75-69-4	Trichlorofluoromethane	116.	U

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Sample Identification

002-AST80 E-S-0825-00

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8270C
Delivery Group: 205468
Instrument: HP-26
Grams Extracted: 30.3 g
Extract Vol: 1.0 ml

Lab Sample ID: 00-A121140
Date Sampled: 8/25/00
Date Received: 8/26/00
Analysis Date: 9/ 3/00
Analysis Time: 0:31
Sample QC Group: 6939

Extraction Date: 8/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
83-32-9	Acenaphthene	384	U
208-96-8	Acenaphthylene	384	U
120-12-7	Anthracene	384	U
56-55-3	Benzo(a)anthracene	384	U
50-32-8	Benzo(a)pyrene	384	U
205-99-2	Benzo(b)fluoranthene	384	U
191-24-2	Benzo(g,h,i)perylene	384	U
207-08-9	Benzo(k)fluoranthene	384	U
101-55-3	4-Bromophenylphenylether	384	U
85-68-7	Butylbenzylphthalate	384	U
86-74-8	Carbazole	384	U
59-50-7	4-Chloro-3-methylphenol	384	U
106-47-8	4-Chloroaniline	384	U
111-91-1	bis(2-Chloroethoxy)methane	384	U
111-44-4	bis(2-Chloroethyl)ether	384	U
39638-32-9	bis(2-Chloroisopropyl)ether	384	U
91-58-7	2-Chloronaphthalene	384	U
95-57-8	2-Chlorophenol	384	U
7005-72-3	4-Chlorophenylphenylether	384	U
218-01-9	Chrysene	384	U
132-64-9	Dibenzofuran	384	U
53-70-3	Dibenz(a,h)anthracene	384	U
95-50-1	1,2-Dichlorobenzene	384	U
541-73-1	1,3-Dichlorobenzene	384	U
106-46-7	1,4-Dichlorobenzene	384	U
91-94-1	3,3'-Dichlorobenzidine	384	U
120-83-2	2,4-Dichlorophenol	384	U
84-66-2	Diethylphthalate	384	U

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Sample Identification

002-AST80 E-S-0825-00

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight

Lab Sample ID: 00-A121140
Date Sampled: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
105-67-9	2,4-Dimethylphenol	384	U
131-11-3	Dimethylphthalate	384	U
84-74-2	Di-n-butylphthalate	384	U
534-52-1	4,6-Dinitro-2-methylphenol	384	U
51-28-5	2,4-Dinitrophenol	384	U
121-14-2	2,4-dinitrotoluene	384	U
606-20-2	2,6-Dinitrotoluene	384	U
117-84-0	Di-n-octylphthalate	384	U
206-44-0	Fluoranthene	384	U
86-73-7	Fluorene	384	U
118-74-1	Hexachlorobenzene	384	U
87-68-3	Hexachlorobutadiene	384	U
77-47-4	Hexachlorocyclopentadiene	384	U
67-72-1	Hexachloroethane	384	U
193-39-5	Indeno(1,2,3-cd)pyrene	384	U
78-59-1	Isophorone	384	U
91-57-6	2-Methylnaphthalene	384	U
95-48-7	2-Methylphenol	384	U
106-44-5	m,p-Methylphenol	384	U
91-20-3	Naphthalene	384	U
88-74-4	2-Nitroaniline	384	U
99-09-2	3-Nitroaniline	384	U
100-01-6	4-Nitroaniline	384	U
98-95-3	Nitrobenzene	384	U
88-75-5	2-Nitrophenol	384	U
100-02-7	4-Nitrophenol	384	U
621-64-7	N-nitrosodi-n-propylamine	384	U
86-30-6	N-nitrosodiphenylamine	384	U
87-86-5	Pentachlorophenol	384	U
85-01-8	Phenanthrene	384	U
108-95-2	Phenol	384	U
129-00-0	Pyrene	384	U
117-81-7	Bis(2-ethylhexyl)phthalate	384	U
120-82-1	1,2,4-Trichlorobenzene	384	U

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Sample Identification

002-AST80 E-S-0825-00

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight

Lab Sample ID: 00-A121140
Date Sampled: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
95-95-4	2,4,5-Trichlorophenol	384	U
88-06-2	2,4,6-Trichlorophenol	384	U

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Sample Identification

002-AST80 E-S-0825-00

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight

Lab Sample ID: 00-A121140
Date Sampled: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG

Dilution Factor: 1.
Analysis Method: FPRO
Delivery Group: 205468
Instrument: PE-3
Grams Extracted: 25. g
Extract Vol: 2.0 ml

Analysis Date: 8/29/00
Analysis Time: 22:31
Sample QC Group: 6960

Extraction Date: 8/29/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	.....TRPH	11600	.... U

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Sample Identification

002-AST80 E-S-0825-00

Matrix: Soil
% Dry Weight: 86.
Units: mg/kg dry weight
Dilution Factor: 1.
Analysis Method: SW6010B
Delivery Group: 205468
Instrument:
Mercury DilFact: 1.
Mercury Method: SW7471
Mercury Instrument:

Lab Sample ID: 00-A121140
Date Sampled: 8/25/00
Date Received: 8/26/00
Analysis Date: 9/ 8/00
Analysis Time: 7:53
Sample QC Group: 4751

Mercury Date: 9/ 8/00
Mercury Time: 7:53
Mercury QC Group: 4751

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
7440-38-2	Arsenic	1.18	U
7440-43-9	Cadmium	1.18	U
7440-47-3	Chromium	5.21	
7439-92-1	Lead	3.55	

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Sample Identification

002-EQ 1-W-0825-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8270C
Delivery Group: 205468
Instrument: HP-9
Vol Extracted: 960. ml
Extract Vol: 1.0 ml

Lab Sample ID: 00-A121142
Date Sampled:: 8/25/00
Date Received: 8/26/00
Analysis Date: 9/ 2/00
Analysis Time: 16:06
Sample QC Group: 6943

Extraction Date: 8/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
50-32-8	Benzo(a)pyrene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
85-68-7	Butylbenzylphthalate	10	U
86-74-8	Carbazole	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
218-01-9	Chrysene	10	U
132-64-9	Dibenzofuran	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
84-66-2	Diethylphthalate	10	U

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Sample Identification

002-EQ 1-W-0825-00

Matrix: Water
pH:
Units: ug/l

Lab Sample ID: 00-A121142
Date Sampled:: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethylphthalate	10	U
84-74-2	Di-n-Butylphthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
51-28-5	2,4-Dinitrophenol	10	U
121-14-2	2,4-dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
117-84-0	Di-n-octylphthalate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3.and 4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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Sample Identification

002-EQ 1-W-0825-00

Matrix: Water
pH:
Units: ug/l

Lab Sample ID: 00-A121142
Date Sampled:: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U

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TestAmerica
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Sample Identification

002-EQ 1-W-0825-00

Matrix: Water
pH:
Units: ug/l

Lab Sample ID: 00-A121142
Date Sampled:: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG

Dilution Factor: 1.
Analysis Method: FPRO
Delivery Group: 205468
Instrument: PE-3
Vol Extracted: 980. ml
Extract Vol: 2.0 ml

Analysis Date: 9/ 1/00
Analysis Time: 1:01
Sample QC Group: 8724

Extraction Date: 8/30/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	TRPH	200	.... U

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Sample Identification

002-EQ 1-W-0825-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW6010B
Delivery Group: 205468
Instrument:

Lab Sample ID: 00-A121142
Date Sampled:: 8/25/00
Date Received: 8/26/00
Analysis Date: 9/ 8/00
Analysis Time: 7:54
Sample QC Group: 4759

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
7440-38-2	Arsenic, Total	5	U
7440-43-9	Cadmium, total	1	U
7440-47-3	Chromium, total	5	U
7439-92-1	Lead	3	U

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CHAIN-OF-CUSTODY RECORD

COC # 149152-50 page 1 of 1

Hill Co[illegible]ors, Inc.
[illegible] #6580
205468

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.)
Cecil Field Tank Removals	149152	Test America, Nashville, TN Nancy Reed	Jay Daniel, Environmental Recovery, Inc.	251 Levy Road, Atlantic Beach, FL 322233 phone (904) 241-2200 fax 904-241-4732
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.)
Source Removal Bldg 80 - used oil tanks	0002		Bill Canelos, CCI/JAJES	6219 Authority Road, Jacksonville, FL 32221 phone (904) 777-4812 fax 904-777-4262
CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.)
nelos	phone (904) 777-4812 fax 904-777-4262	phone (800) 765-0980		

ANALYSES REQUIRED (Include Method Numbers)

SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	8240 (w/ ketones)	8270 (w/ PAHs)	FL-Pro	TAL metals (Ar Cd Cr Pb)	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
002-TB01-W-0825-00	Trip Blank	DI	8/25/00	0650	C	14	X				Blank (GWB)		121141
002-EQ1-W-0825-00	Equipment Rinsate Blank Soil Equipment	DI	8/25/00	13:10	C	14	X	X	X	X	Blank (GWB)		142
002-EQ2-W-0825-00	Equipment Rinsate Blank GW Equipment	DI	8/25/00	14:00	C	14	X	X	X	X	Blank (GWB)		121145
002-AST80N-S-0825-00	Confirmatory Soil Sample Northwall of Exc.	Soil	8/25/00	14:15	C	14	X	X	X	X	EWB (Soil)		121139
002-AST80E-S-0825-00	Confirmatory Soil Sample East wall of Exc.	Soil	8/25/00	14:30	C	14	X	X	X	X	EWB (Soil)		121140
002-AST80-W-0825-00	Groundwater Sample	GW	8/25/00	16:05	C	14	X	X	X	X	EWB (GW)		121144

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT

ER(S) AND COMPANY (please print)
ird Moriarty, Environmental Science Associates, Inc.

COURIER AND SHIPPING NUMBER

RELINQUISHED BY Name and Signature	DATE	TIME	RECEIVED BY Printed Name and Signature	DATE	TIME
Richard Moriarty	8/25/00	17:00	[illegible]	8-25-00	17:00
Richard Moriarty			[illegible]	8-25-00	17:35

Appendix F

Analytical Laboratory Reports for Groundwater Samples

TestAmerica
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Sample Identification

002-AST 80-W-0825-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8270C
Delivery Group: 205468
Instrument: HP-9
Vol Extracted: 960. ml
Extract Vol: 1.0 ml

Lab Sample ID: 00-A121144
Date Sampled:: 8/25/00
Date Received: 8/26/00
Analysis Date: 9/ 2/00
Analysis Time: 17:22
Sample QC Group: 6943

Extraction Date: 8/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
50-32-8	Benzo(a)pyrene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
85-68-7	Butylbenzylphthalate	10	U
86-74-8	Carbazole	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
218-01-9	Chrysene	10	U
132-64-9	Dibenzofuran	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
84-66-2	Diethylphthalate	10	U

TestAmerica
INCORPORATED

Sample Identification

002-AST 80-W-0825-00

Matrix: Water
pH:
Units: ug/l

Lab Sample ID: 00-A121144
Date Sampled:: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethylphthalate	10	U
84-74-2	Di-n-Butylphthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
51-28-5	2,4-Dinitrophenol	10	U
121-14-2	2,4-dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
117-84-0	Di-n-octylphthalate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3.and 4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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TestAmerica
INCORPORATED

Sample Identification

002-AST 80-W-0825-00

Matrix: Water
pH:
Units: ug/l

Lab Sample ID: 00-A121144
Date Sampled:: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U

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TestAmerica
INCORPORATED

Sample Identification

002-AST 80-W-0825-00

Matrix: Water
pH:
Units: ug/l

Lab Sample ID: 00-A121144
Date Sampled:: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG

Dilution Factor: 1.
Analysis Method: FPRO
Delivery Group: 205468
Instrument: PE-3
Vol Extracted: 985. ml
Extract Vol: 2.0 ml

Analysis Date: 9/ 1/00
Analysis Time: 1:47
Sample QC Group: 8724

Extraction Date: 8/30/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	TRPH	200	.... U

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TestAmerica
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Sample Identification

002-AST 80-W-0825-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW6010B
Delivery Group: 205468
Instrument:

Lab Sample ID: 00-A121144
Date Sampled:: 8/25/00
Date Received: 8/26/00
Analysis Date: 9/ 8/00
Analysis Time: 7:54
Sample QC Group: 4759

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
7440-38-2	Arsenic, Total	5	U
7440-43-9	Cadmium, total	1	U
7440-47-3	Chromium, total	18	
7439-92-1	Lead	15	

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Sample Identification

002-EQ 2-W-0825-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8270C
Delivery Group: 205468
Instrument: HP-9
Vol Extracted: 950. ml
Extract Vol: 1.0 ml

Lab Sample ID: 00-A121143
Date Sampled:: 8/25/00
Date Received: 8/26/00
Analysis Date: 9/ 2/00
Analysis Time: 16:44
Sample QC Group: 6943

Extraction Date: 8/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
50-32-8	Benzo(a)pyrene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
85-68-7	Butylbenzylphthalate	10	U
86-74-8	Carbazole	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
39638-32-9	Bis(2-chloroisopropyl)ether	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
218-01-9	Chrysene	10	U
132-64-9	Dibenzofuran	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
84-66-2	Diethylphthalate	10	U

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Sample Identification

002-EQ 2-W-0825-00

Matrix: Water
pH:
Units: ug/l

Lab Sample ID: 00-A121143
Date Sampled:: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethylphthalate	10	U
84-74-2	Di-n-Butylphthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
51-28-5	2,4-Dinitrophenol	10	U
121-14-2	2,4-dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
117-84-0	Di-n-octylphthalate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3.and 4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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TestAmerica
INCORPORATED

Sample Identification

002-EQ 2-W-0825-00

Matrix: Water
pH:
Units: ug/l

Lab Sample ID: 00-A121143
Date Sampled:: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U

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TestAmerica
INCORPORATED

Sample Identification

002-EQ 2-W-0825-00

Matrix: Water
pH:
Units: ug/l

Lab Sample ID: 00-A121143
Date Sampled:: 8/25/00
Date Received: 8/26/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG

Dilution Factor: 1.
Analysis Method: FPRO
Delivery Group: 205468
Instrument: PE-3
Vol Extracted: 980. ml
Extract Vol: 2.0 ml

Analysis Date: 9/ 1/00
Analysis Time: 1:24
Sample QC Group: 8724

Extraction Date: 8/30/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	TRPH	200	.... U

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TestAmerica
INCORPORATED

Sample Identification

002-EQ 2-W-0825-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW6010B
Delivery Group: 205468
Instrument:

Lab Sample ID: 00-A121143
Date Sampled:: 8/25/00
Date Received: 8/26/00
Analysis Date: 9/ 8/00
Analysis Time: 7:54
Sample QC Group: 4759

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
7440-38-2	Arsenic, Total	5	U
7440-43-9	Cadmium, total	1	U
7440-47-3	Chromium, total	5	U
7439-92-1	Lead	3	U

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Hill Co[illegible]ors, Inc. #6580

2054468

CHAIN-[illegible] CUSTODY RECORD

COC No. 149152-50 page 1 of 1

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.)
Cecil Field, Tank Removals	149152	Test America, Nashville, TN Nancy Reed	Jay Daniel, Environmental Recovery, Inc.	251 Levy Road, Atlantic Beach, FL 322233 phone (904) 241-2200 fax 904-241-4732
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.)
Source Removal Bldg 80 - used oil tanks	0002		Bill Canelos, CCI/JAJES	6219 Authority Road, Jacksonville, FL 32221 phone (904) 777-4812 fax 904-777-4262
CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.)
nelos	phone (904) 777-4812 fax 904-777-4262	phone (800) 765-0980		

ANALYSES REQUIRED (Include Method Numbers)

SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	8260B (w/ ketones)	8270 (w/ acids)	FL-Pro	TAL metals (Hg, Cr, Pb)	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
002-TB01-W-0825-00	Trip Blank	DI	8/25/00	0650	C	14	X				Blank (GRAB)		121141
002-EQ1-W-0825-00	Equipment Rinsate Blank Soil Equipment	DI	8/25/00	13:10	C	14	X	X	X	X	Blank (GRAB)		5 42
002-EQ2-W-0825-00	Equipment Rinsate Blank GW Equipment	DI	8/25/00	14:00	C	14	X	X	X	X	Blank (GRAB)		121145
002-AST80N-S-0825-00	Confirmatory Soil Sample North wall of exc.	Soil	8/25/00	14:15	C	14	X	X	X	X	Grab (Soil)		121139
002-AST80E-S-0825-00	Confirmatory Soil Sample East wall of exc.	Soil	8/25/00	14:30	C	14	X	X	X	X	Grab (Soil)		121140
002-AST80-W-0825-00	Groundwater Sample	GW	8/25/00	16:05	C	14	X	X	X	X	Grab (GW)		121144

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT

ER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER					
rd Moriarity, Environmental Science Associates, Inc.						
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Name and Signature: Rick Moriarty	8/25/00	17:00	Printed Name and Signature: [illegible]	8-25-00	17:00
Name and Signature: [illegible]	[illegible]	[illegible]	Printed Name and Signature: [illegible]	8-25-00	17:35

Appendix G

FDEP Forms

Florida Department of Environmental Protection

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Form Title Storage Tank Registration Form
Effective Date July 13, 1998
DEP Application No. _____ (Filled in by DEP)

Storage Tank Facility Registration Form

Submit a completed form for the facility when registration of storage tanks or compression vessels is required by Chapter 376.303, Florida Statutes

Please review *Registration Instructions* before completing the form.

Please check all that apply	[ ] New Registration	[ ] New Owner	[ ] New Tanks
	[ ] Facility Info Update/Correction	[ ] Owner Info Update/Correction	[X] Tank Info Update/Correction

A. FACILITY INFORMATION — **County:** Duval — **DEP Facility ID:** 168507293

Facility Name: NAS Cecil Field
Facility Address: 13200 Normandy Blvd City: Jacksonville, FL. Zip: 32215
Facility Contact: Dave Kruzicki Business Phone: (904) 778-5440
Facility Type(s): US Gov. NAICS Code: _____ Financial Responsibillity: _____

24 Hour Emergency Contact: _____ **Emergency Phone:** (____) _____

B. RESPONSIBLE PERSON INFORMATION - Identify Individual(s) or Business(es) responsible for storage tank management, fueling operations, and/or cleanup activities at the facility location named above. **Provide additional information in an attachment if necessary.**

	Facility - Responsible Person Relation Type:	Effective Date
Name: US Government / NAVY	[√] **Facility Account Owner (pays fees)**	
Mail address: Caretaker site Office So. Div.	Facility Account Owner information must be provided when the facility contains active (in-use) storage tanks on site.	
City, ST, Zip: P.O. Box 150853, JaCKSONVILLE, FL. 32221-0853		
Contact: Dave Kruzicki	**STCM Account Number (if known)**	
Telephone: (904) 778-5440		

Identify other appropriate facility relationships for this party: [X] Facility Owner/Operator [X] Property Owner [X] Storage Tank Owner

	Other owner, relationship type(s)	Effective Date
Name:	[ ] Facility Owner/Operator	
Mail address:	[ ] Property Owner	
City, ST, Zip:	[ ] Storage Tank Owner	
Contact:	[ ] Other:	
Telephone:		

C. TANK/VESSEL INFORMATION - Complete one row for each storage tank or compression vessel system located at this facility.

Tank ID	T/V	A/U	Capacity	Installed	Content	Status/Effective Date		Construction	Piping	Monitoring
80-132	T	A	10,000	1998	L	B	8/2000	CK	A	Q
80-133	T	A	10,000	1998	L	B	8/2000	CK	A	Q
80-134	T	A	10,000	1998	L	B	8/2000	CK	A	Q
80-135	T	A	10,000	1998	L	B	8/2000	CK	A	Q

Certified Contractor (peforming tank installation or removal): Environmental Recovery DBPR License No.: PCC050751

Registration Certification: **To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.**

Samuel Ross / Project Mgr — **Printed Name & Title**
[signature] — **Signature**
4/2/01 — **Date**

DEP 62-761.900(2)

Northwest District
160 Governmental Center Blvd.
Pensacola, FL 32501
850-595-8360

Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, FL 32256
904-448-4300

Central District
3319 Maguire Blvd., Suite 232
Orlando, FL 32803
407-894-7555

Southwest District
3804 Coconut Palm Drive
Tampa, FL 33619
813-744-6100

Southeast District
400 North Congress Ave.,
W Palm Beach, FL 33416
561-681-6600

South District
2295 Victoria Ave., Suite 364
Fort Myers, FL 33901
941-332-6975

Marathon Branch Office
2796 Overseas Hwy., Suite 221
Marathon, FL 33050
305-289-2310