

U.S. ARMY CORPS OF ENGINEERS, SAVANNAH DISTRICT
CONTRACT DACA21-92-D-0002, DELIVERY ORDER #0101

CLOSURE REPORT

WASTE OIL TANK
BUILDING 1503, TANK 214
FACILITY ID NUMBER: 9-089015
FT. STEWART, GEORGIA

PREPARED BY:

ANDERSON COLUMBIA ENVIRONMENTAL, INC.

NOVEMBER 1996

P.O. Box 1386, Lake City, Florida 32056-1386
Phone: (904) 755-1196 Fax: (904) 758-9050

US Army Corps of Engineers
Delivery Order 0101
Ft. Stewart, Hinesville, Georgia
Underground Storage Tank Removal and Closure

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Prepared by

Anderson Columbia Enviornmental, Inc.

TAB 1

GEORGIA CLOSURE REPORT
FORMS

Georgia Department of Natural Resources

Environmental Protection Division
Underground Storage Tank Management Program
4244 International Parkey, Suite 104, Atlanta, Georgia 30354
Lonice C. Barrett, Commissioner
Harold F. Reheis, Director
(404) 362-2687



CLOSURE REPORT FORM

Please complete the following form, include the listed items and check all of the boxes that apply. This form can be used as a Closure Report, provided documentation is attached when specified, to substantiate the information on this form, as outlined in the guidance document "So You Want to Close an UST?" (GUST-9). If one of the items does not apply to your tank closure, please provide a written explanation for the omission. If soil was excavated and disposed of, be sure to complete the applicable sections and attach the proper disposal documents.

1. Owner of UST System:

Name: US Army/Ft. Stewart
Phone Number: (912) 767-2010/1234
Company: US Army
Address: Cdr. 3rd Inf. Div. (Mech.), Attn: AFZP-DEV, Bldg. 1139
Ft. Stewart GA 31314-5000
(city) (state) (zip code)

I hereby certify that the information contained in this Closure Report and in all the attachments is true, accurate, and complete, and the Closure Report satisfies all criteria and requirements of Rule 391-3-15-.09 of the Georgia Rules for Underground Storage Tank Management.

Signature: _____ Date: _____

2. UST System Site Location:

Facility Name: Ft. Stewart, GA FAC 1503
Street Address: FAC 1503
Ft. Stewart GA 31314-5000
(city) (state) (zip code)
Facility ID# 9-089015

3. Contract Certification:

I hereby certify that I have performed or supervised the work detailed in this report, and have examined and am familiar with the information submitted in this and all attached documents. The submitted information is, to the best of knowledge, true, accurate, complete, and in accordance with the Georgia Rules for Underground Storage Tank Management, revised February, 1995.

Name: David F. Black
Address: PO Box 1386 Lake City, Florida 32056

Signature: [Signature] Date: 12/4/96

Closure for

(1 of 3)

August 1995

4. Site-specific Hydrogeology:

Depth to Groundwater _____ ft. if encountered

☒ Not Applicable

5. Site Map: Include the following items on an attached site map:

REFER TO TAB 5

- Tank Pit Area
- Sewer Lines (if present)
- Sample Locations (with sample numbers and depths)
- Scale: See Tab 5
- Piping Trenches
- Water Lines
- North Arrow
- Dispensers
- Tanks with thier ID#s, corresponding to the Notification Form 7530-1

6. Tank Removal

• Date of Removal: 1-Aug-96

• Tank Information:

<u>Tank #</u>	<u>Tank Size (gallons)</u>	<u>Tank Contents</u>
214	550	Waste Oil

(This information should correspond to the 7530-1 Form.)

• Attach Amended Notification Form 7530-1

REFER TO TAB 6

• Describe Soil Sampling Procedures (and groundwater, if encountered):

REFER TO TAB 6

7. Laboratory Analytical Data:

The following items must be included on attached copies

REFER TO TAB 7

- Laboratory Method
- Detection Limits
- Date of Sampling
- Signed Chain of Custody
- Date of Analysis
- Quality Control Data

8. Regulated Substance Released:

Check the applicable box(es).

☐ Gasoline ☐ Diesel ☐ Kerosene ☒ Used Oil ☐ Other _____

9. Excavation and Treatment/Disposal of Contaminated Soil:

- Attach Soil Disposal Manifests
- Volume of Soil Excavated (less than 6 ft from USTs and 4 ft from piping or dispenser islands)

22.67 Tons OR _____ yd³

☐ Not Applicable

10. Local Water Resources: Attach documentation only if Table B Soil Threshold Values and/or in-Stream Water Quality Standards are proposed for soil disposal, or No Further Action Required status. Check the applicable box(es).

☐ Drinking water supplies are NOT located in:
High or average groundwater pollution susceptibility area:*
Public water systems within 2.0 miles and
Non-public water systems within 0.5 mile

OR

Low groundwater pollution susceptibility area:*
Public water systems within 1.0 mile and
Non-public water systems within 0.25 mile

* As defined by the Groundwater Pollution Susceptibility Map of Georgia

☐ Streams, Lakes, and Ponds:
Distance to closest surface water body: _____ mile(s) or _____ feet

☒ Not Applicable

SEE TAB 7, 10

11. Conclusions or Recommendations: Choose one.

☐ Clean Closure, thus No Further Action is Required.

☐ Soil Excavated within the Limits Specified in Question 7 (GUST-9) and Transported to an EPD Treatment/Disposal Facility, Thus No Further Action is Required.

TAB 4

SITE PHOTOGRAPHS

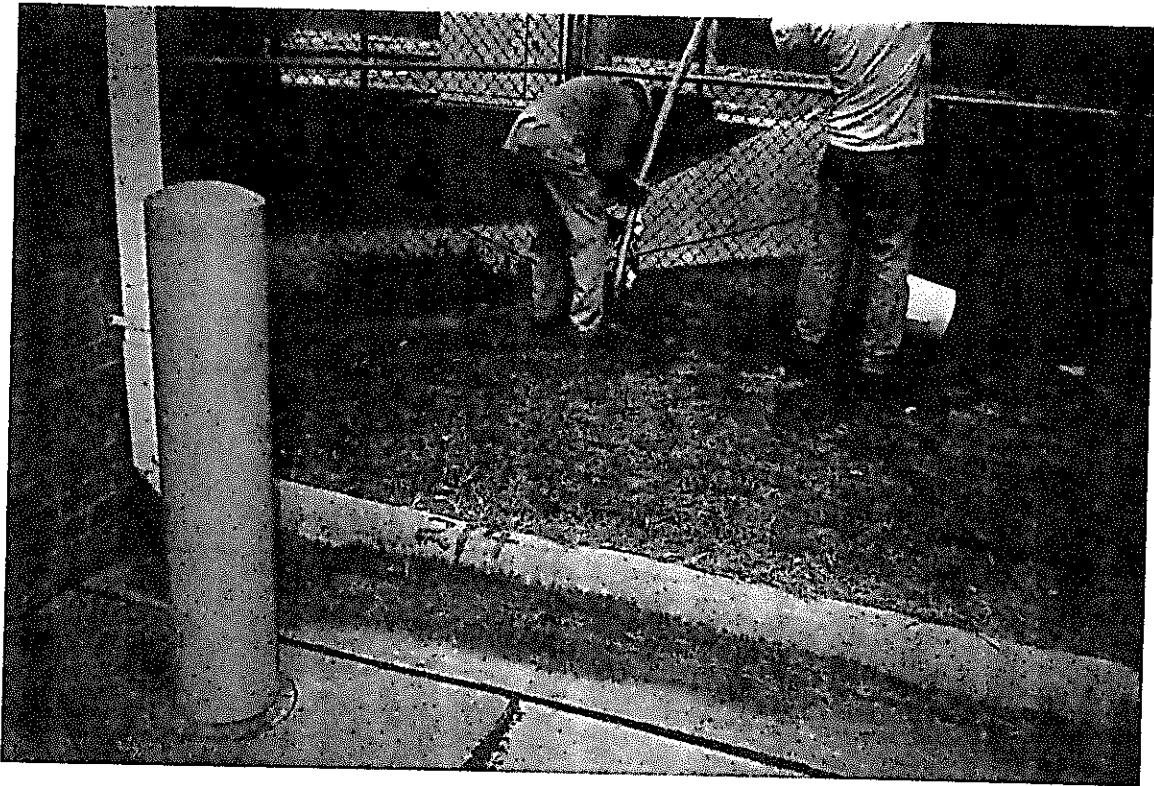


Photo 1. Tank 214 during product removal (pumping).

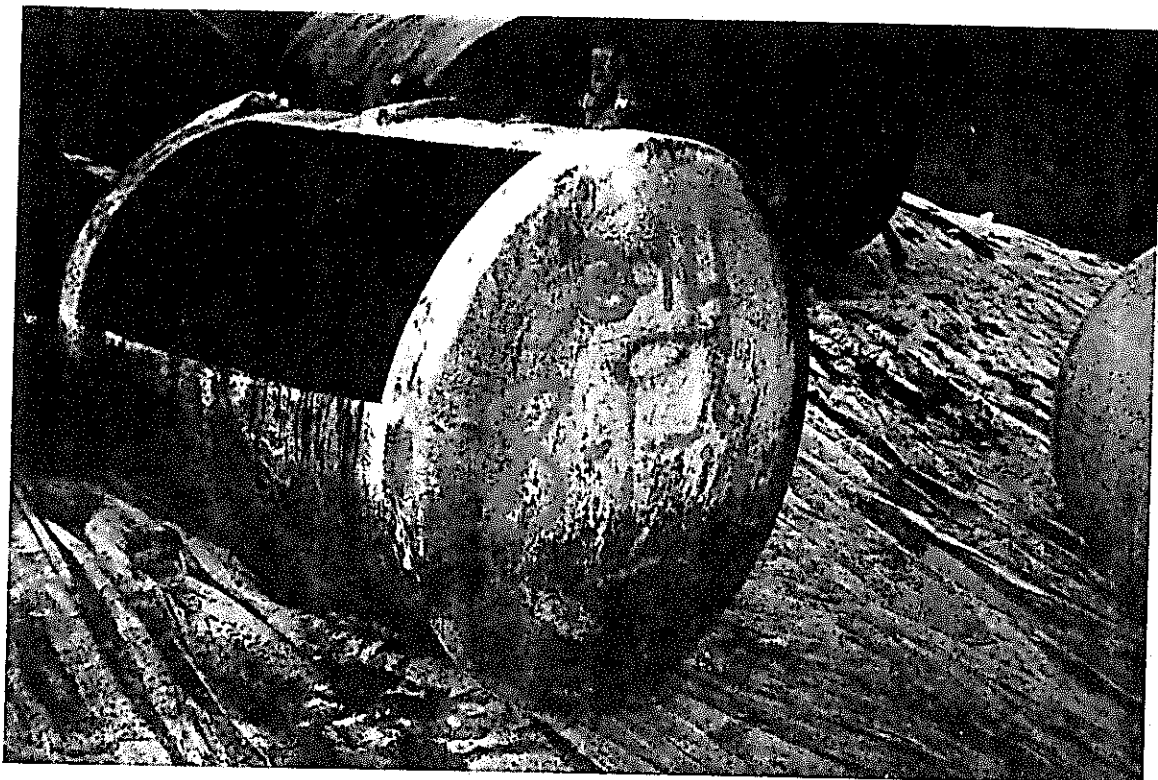


Photo 2. Tank 214 after removal, cutting, and cleaning.

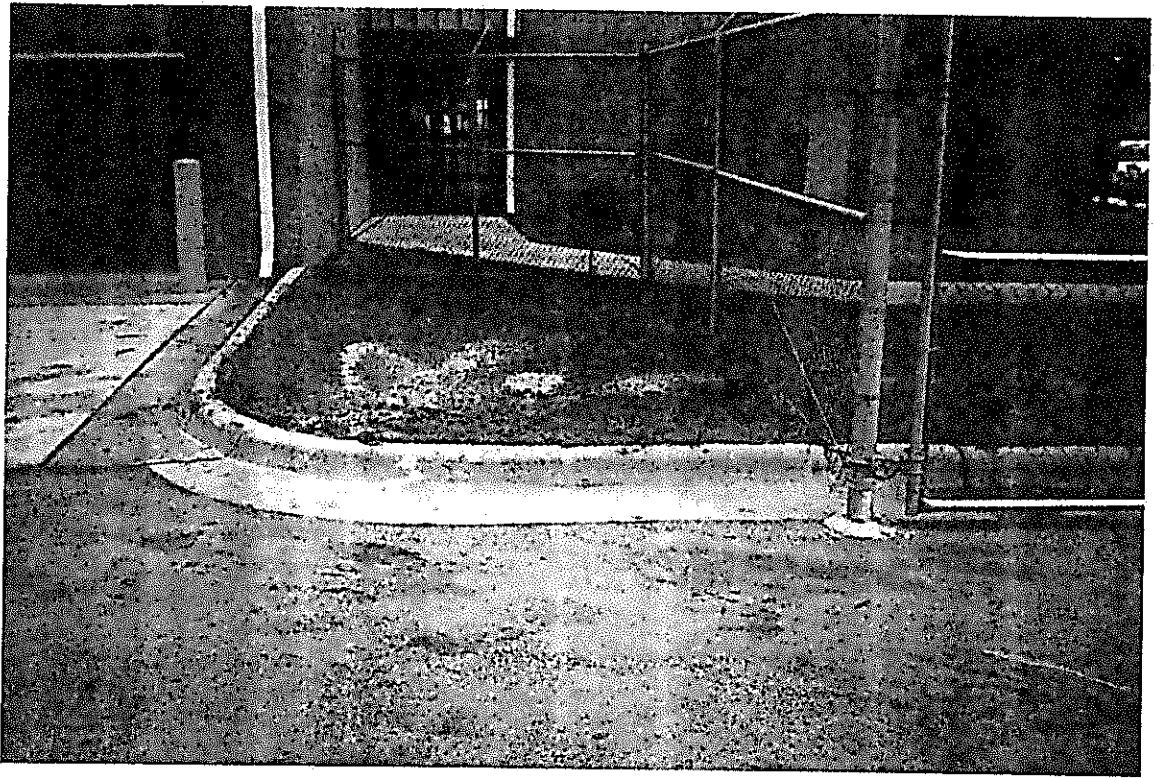
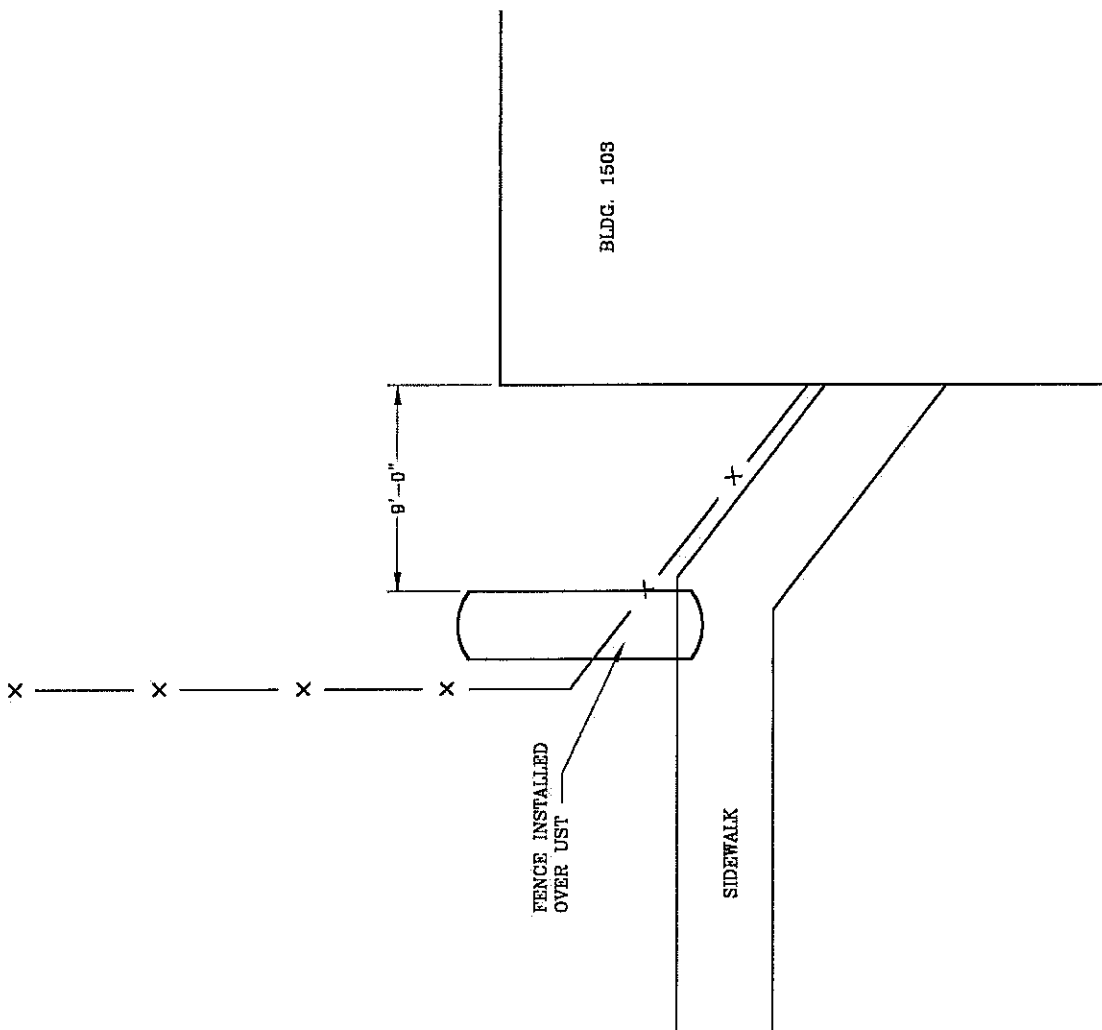
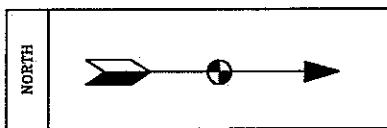


Photo 3. The site after tank removal, backfilling and grading.

TAB 5

SITE MAPS

Instrument: _____ Serial #: _____
Source: _____ Temp: _____
PID Correlation: 50 ppm

[illegible]

LEGEND/REF. DRWG.'S

EXCAVATION SIZE: 10' X 13' X 9' DEEP

**ANDERSON COLUMBIA
ENVIRONMENTAL, INC.**

P.O. BOX 1385 LAKE CITY, FLORIDA 32056 (904) 755-1196

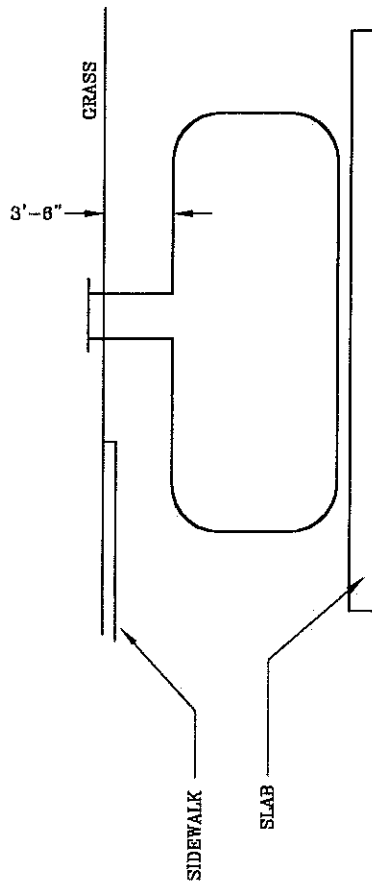
DR. N.A.M. _____ CH'D _____ DR. APP. _____
ENGR. _____ ENGR.'S DEPT. _____
DATE 10-30-96 SCALE N.T.S.

JOB #8101 FT. STEWART, GA

LOCATION: BLDG. 1503

TANK #214 550 GAL. FIBERGLASS WASTE OIL

Instrument: _____ Serial #: _____
Source: _____ Temp: _____
PID Correlation: 50 ppm

[illegible]

CROSS SECTION
TANK DIMENSIONS: 4'-0" X 5'-8"

**ANDERSON COLUMBIA-
ENVIRONMENTAL, INC.**
P.O. BOX 1386 LAKE CITY, FLORIDA 32056 (904) 755-1196

DR. N.A.M. CH'D DR. APP.
ENGR. ENGR.'S DEPT.
DATE 10-30-96 SCALE N.T.S.

JOB #8101 FT. STEWART, GA

LOCATION: BLDG. 1503

TANK #214 550 GAL. FIBERGLASS WASTE OIL

TAB 6

EPA FORM 7530-1
&
FIELD ASSESSMENT METHODS

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

state use only

Part I: Facility Data

FACILITY ID NUMBER: 9-089015

OWNER'S ID: 197

INITIAL DATE RECEIVED: 05-06-1986

DATE AMENDED LAST: _____

NOTIFICATION TYPE: ☐ New ☒ Amended ☒ Closure

OWNERSHIP OF TANK (S):

NUMBER OF TANK (S): 2

Name : US ARMY/FT STEWART
Mailing Address : HQ 3RD INF DIV (M), AFZP-DEV/BLDG 1139
City : FT STEWART State: GEORGIA Zip Code: 31314-5000
Phone : 912-767-1071 County: LIBERTY

LOCATION OF TANK (S):

Name : FT STEWART/FAC 1503
Street Address : FAC 1503
City : FT STEWART State: GEORGIA Zip Code: 31314-5000
County : LIBERTY Latitude: _____ Longitude: _____
Phone : _____

OWNER TYPE: ☒ Federal ☐ State ☐ Local ☐ Commercial ☐ Private

FACILITY TYPE (S):

☐ Gas Station	☐ Local Government	☐ Contractor
☐ Petroleum Dist	☐ State Government	☐ Truck/Transport
☐ Air Tax (Airport)	☐ Fed Non-Military	☐ Utilities
☐ Aircraft Owner	☒ Fed Military	☐ Farm
☐ Auto Dealership	☐ Commercial	☐ Residential
☐ Railroad	☐ Industrial	☐ Other
☐ Hospital	☐ Educational	

CONTACT PERSON IN CHARGE OF TANK (S):

Name : US ARMY/FT STEWART Title: JOHN SPEAR/ENV ENG
Address : HQ 3RD INF DIV (M), AFZP-DEV/BLDG 1139
City : FT STEWART State: GEORGIA Zip Code: 31314-5000
Phone : 912-767-1071

**STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK**

Part I: Facility Data

FINANCIAL RESPONSIBILITY:

FACILITY ID NUMBER:

- ☐ I meet the financial responsibility requirements of SS12-13-9 Official Code of Georgia Annotated by providing or participating in one of the following financial assurance mechanisms.

Primary Financial Responsibility Mechanism (check one)

- | | |
|---|---|
| ☐ GUST Trust Fund | ☐ Insurance |
| ☐ Surety Bond | ☐ Guarantee |
| ☐ Letter of Credit | ☐ Trust Fund (other than GUST) |
| ☐ Risk Retention Group | ☒ Other Method |
| ☐ Self-insured | ☐ None |

If a primary coverage mechanism other than GUST Trust Fund is checked, provide the following information pursuant to GUST Rule 391-3-15-.12 (1) :

Financial Responsibility Provider (primary):

Name: US Army

Address: HQ 3rd Inf. Div. (M) AFZP-DEV/BLDG 1139 City: Ft. Stewart State: GA

Mechanism Id Number: _____

Mechanism Anniversary Date: _____

Deductible Financial Responsibility, if any: (check one)

Note: If your primary Financial Responsibility Mechanism is provided through participation in the GUST Trust Fund by payment of Environmental Assurance Fees, as required under GUST Rule 391-3-15-.13, you must also check one of the following boxes indicating how coverage for the GUST Trust Fund \$10,000 deductible is being provided.

If your Financial Responsibility Mechanism is other than GUST Trust Fund and it has a deductible, you must also check one of the following boxes indicating how coverage for the deductible is being provided.

- | | |
|---|---|
| ☐ Surety Bond | ☐ Insurance |
| ☐ Letter of Credit | ☐ Guarantee |
| ☐ Risk Retention Group | ☐ Trust Fund (other than GUST) |
| ☐ Self-insured | ☐ Other Method |

Provide the name and address of Financial Responsibility Provider for Deductible pursuant to GUST Rule 391-15-.12 (1) :

Financial Responsibility Provider (deductible):

Name: _____

Address: _____ City: _____ State: _____

Mechanism Id Number: _____

Mechanism Anniversary Date: _____

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part III: Certifications

OATH OF

INSTALLATION: I certify the information concerning installation of the UST system, release detection, and spill/overflow protection specified in Part II-Tank Data is true to the best of my belief and knowledge.

Installer:

Company

Company Address

Authorized Representative

Signature

Date

Title

Telephone Number (include Area Code)

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Owner:

John H. Spears

Owner Name

Chief, Environmental Branch

Title

Owner's Signature

Date

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089015	9-089015			
TANK ID	214	215			
Status of Tank					
Currently in Use	x	x			
Temp. Out of Use					
Perm. Out of Use	x	x			
Date of Installation	01-01-1988	01-01-1988			
Age	8	8			
Est. Total Capacity	550	550 500			
MATERIAL OF CONSTRUCTION					
Asphalt or Bare Steel					
Cath. Protected Steel					
Epoxy Coated Steel					
Composite					
Fiberglass Reinf. Plas.	x	x			
Lined Interior					
Double Walled					
Poly. Tank Jacket					
Concrete					
Excavation Liner					
Unknown					
Other, Explanation					
Date Tank Repaired					
PIPING MATERIAL					
Bare Steel					
Galvanized Steel	x	x			
Fiberglass					
Copper					
Cathodically Protected					
Double Walled					
Secondary Containment					
Unknown					
Other, Explanation					
Date Piping Installed					
Piping Type					
Suction: No Valve					
Suction: Valve					
Pressure					
Gravity Fed					
Date Piping Repaired					
Substance Stored in Tank					
Gasoline					
Diesel					
Gasohol					
Kerosene					
Heating Oil					
Used Oil	x	x			
Propane					
Empty					
Other, Explanation					

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089015	9-089015									
TANK ID	214	215									
Substance Stored in Tank											
Hazardous Substance											
CERCLA Name											
CAS Number											
Mixture											
Mixture, Specification											
Out of Use/Chg. Ser.	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	
Est. Date Last Used	7-25-96	7-25-96	7-24-96	7-24-96							
Est. Date Closed	8-1-96	8-1-96	7-31-96	7-31-96							
Removed from Ground	Y		Y								
Closed in Ground		Y		Y							
Filled with Iner. Mat.		Y		Y							
Change in Service											
Site Assessment Compl.											
Leak Detected											
Installation											
Certified by Manufac.											
Certified by Imple. Agn.											
Inspected by Engineer											
Checklists Completed											
Another Allowed Method											
Method Description											
Certified by Imple. Agn.											
Inspected by Engineer											
Checklists Completed											
Another Allowed Method											
Method Description											
Release Detection	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	
Tank Tightness Testing											
Inventory Controls											
SIR											
Automatic Tank Guaging											
Inter. Mon./Double Wall											
Groundwater Monitoring											
Manual Tank Guaging											
Vapor Monitoring											
Inter. Mon./Sec. Cont.											
Auto. Line Leak Detect.											
Line Tightness Testing											
Other Method											
Other Description											
Spill and Overfill											
Date Overfill Device											
Date Spill Device											
Installer Certification											
Name											
Position											
Company											
Date											

TAB 6

FIELD ASSESSMENT METHODS

SOIL SAMPLES

Soil samples for analytical testing were collected by Anderson Columbia Environmental, Inc. (ACE) personnel two (2) feet below both end of the excavated tanks and from the side walls of the excavation. Soil samples were collected into precleaned, labeled laboratory sample bottles and immediately placed on ice. The samples were shipped under Chain of Custody to the Corps of Engineers contract laboratory, Ecosys Laboratory Services.

Soil samples for field screening were collected by ACE personnel from each side and bottom of the tank pit. Soil samples were collected at various intervals and soil vapors were withdrawn for volatile organic compounds (VOCs) with a Heath PORTA-FID II, Model No. 8000 Flame Ionization Detector (FID) fitted with a methane filter. Calibration was performed prior to field sampling with a 100 ppm methane/air mixture.

FID readings of soil samples were collected by filling a clean glass jar one-half full with soil, capping the jar with clean aluminum foil and allowing conditions in the jar to equilibrate for approximately 60 minutes. The tip of the FID was then carefully inserted through the aluminum foil and an air sample from the jar's headspace was analyzed for total VOCs.

GROUNDWATER SAMPLES

Groundwater samples were collected from the bottom of the tank pits only when groundwater invaded the excavation. Groundwater samples were collected from the excavation site with a disposable Teflon bailer and immediately placed in precleaned, labeled laboratory sample containers. Following collection, samples were immediately placed in a sample cooler with ice and were delivered, under Chain of Custody, to Ecosys Laboratory Services.

TAB 7

ANALYTICAL DATA

TAB 7 - Laboratory Analytical Data

Delivery Order #101
Fort Stewart, Georgia
Tank Number 214
Building Number 1503

<i>Method</i> Sample ID <i>unit</i>	9073 TRPH ppm	418.1 TPH ppm	8020 BTEX ppb	8270B Semi-Volatile Organics ppb
8101-TK214-S1		394	bdl	bdl
bdl= below method detection limits				

**Fort Stewart is in an area of 'High or Average Groundwater pollution susceptibility' and this tank is approximately 2200 feet from a withdrawal point. Comparisons should be made to Table A for contaminants >500 feet from a withdrawal point.

22.67 tons of petroleum contaminated soil was removed from the Tank 214 pit.

Complete Data Package Follows

Petroleum Constituents and Soil Threshold Levels^a

† UST corrective action sites where withdrawal points for public and non-public water supplies exist within distances defined in GUST Rule 391-3-15-.09(3):

CONSTITUENT	AVERAGE OR HIGHER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA ^b (Where public water supplies exist within 2.0 miles and/or non-public supplies exist within 0.5 miles)		LOWER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA ^c (Where public water supplies exist within 1.0 mile and/or non-public supplies exist within 0.25 mile)	
	≤500 feet to withdrawal point	>500 feet to withdrawal point	≤500 feet to withdrawal point	>500 feet to withdrawal point
VOLATILE ORGANIC COMPOUNDS				
Benzene ^d	0.005 mg/kg ^d	0.008 mg/kg	0.005 mg/kg ^d	0.71 mg/kg
Toluene	0.400 mg/kg	6.00 mg/kg	0.400 mg/kg	500.00 mg/kg
Ethylbenzene	0.370 mg/kg	10.00 mg/kg	0.500 mg/kg	140.00 mg/kg
Xylenes (total)	20.00 mg/kg	700.00 mg/kg	27.00 mg/kg	700.00 mg/kg
POLYNUCLEAR AROMATIC HYDROCARBONS				
Acenaphthene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Anthracene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benz(a)anthracene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benzo(a)pyrene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Benzo(b)fluoranthene	0.820 mg/kg ^{d,f}	N/A ^e	N/A ^e	N/A ^e
Benzo(g,h,i)perylene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benzo(k)fluoranthene	1.60 mg/kg ^{d,f}	N/A ^e	N/A ^e	N/A ^e
Chrysene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Dibenz(a,h)anthracene	1.50 mg/kg ^{d,f}	N/A ^e	N/A ^e	N/A ^e
Fluoranthene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Fluorene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Indeno(1,2,3-c,d)pyrene	0.660 mg/kg ^d	N/A ^e	0.660 mg/kg ^d	N/A ^e
Naphthalene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Phenanthrene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Pyrene	N/A ^e	N/A ^e	N/A ^e	N/A ^e

^a based on worst-case assumptions for one-dimensional vadose zone and groundwater contaminant fate and transport models.

^b based on an assumed distance of 0.5 feet between contaminated soils and the water table.

^c based on an assumed distance of 5.0 feet between contaminated soils and the water table.

^d Estimated Quantitation Limit. The health-based threshold level is less than the laboratory method limit of detection.

^e Not applicable. The health-based threshold level exceeds the expected soil concentration under free product condition.

^f In order to protect surface waters, the soil threshold level in Table B may supersede that found in Table A.

^g In the presence of other petroleum contaminants in concentrations exceeding 1.0 mg/kg, the Estimated Quantitation Limit, and hence the soil threshold level, may be substantially greater, as approved by EPD.

Table B

Petroleum Constituents and Soil Threshold^a Levels

Under UST corrective action sites where withdrawal points for public and non-public water supplies do not exist within distances defined in GUST Rule 391-3-15-.09(3):

CONSTITUENT	AVERAGE OR HIGHER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA ^b		LOWER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA ^c	
	≤500 feet to sur- face water body	>500 feet to sur- face water body	≤500 feet to sur- face water body	>500 feet to sur- face water body
VOLATILE ORGANIC COMPOUNDS				
Benzene ^f	0.017 mg/kg	0.120 mg/kg	0.020 mg/kg	11.30 mg/kg
Toluene	115.00 mg/kg	500.00 mg/kg	135.00 mg/kg	500.00 mg/kg
Ethylbenzene	18.00 mg/kg	140.00 mg/kg	28.00 mg/kg	140.00 mg/kg
Xylenes (total)	700.00 mg/kg	700.00 mg/kg	700.00 mg/kg	700.00 mg/kg
POLYNUCLEAR AROMATIC HYDROCARBONS				
Acenaphthene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Anthracene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benz(a)anthracene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Benzo(a)pyrene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Benzo(b)fluoranthene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Benzo(g,h,i)perylene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benzo(k)fluoranthene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Chrysene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Dibenz(a,h)anthracene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Fluoranthene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Fluorene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Indeno(1,2,3-c,d)pyrene	0.660 mg/kg ^d	N/A ^e	0.660 mg/kg ^d	N/A ^e
Naphthalene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Phenanthrene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Pyrene	N/A ^e	N/A ^e	N/A ^e	N/A ^e

^a based on worst-case assumptions for one-dimensional vadose zone and groundwater contaminant fate and transport models.

^b based on an assumed distance of 0.5 feet between contaminated soils and the water table.

^c based on an assumed distance of 5.0 feet between contaminated soils and the water table.

^d - Estimated Quantitation Limit. The health-based threshold level is less than the laboratory method limit of detection.

^e - Not applicable. The health-based threshold level exceeds the expected soil concentration under free product condition.

^f - In the presence of other petroleum contaminants in concentrations exceeding 1.0 mg/kg, the Estimated Quantitation Limit, and hence the soil threshold level, may be substantially greater, as approved by EPD.

DW

TRANSMITTAL OF SAD LABORATORY REPORT(S)

TO: Commander, Savannah District
US Army Corps of Engineers
ATTN: CESAS-PM-H
Mr. Brent Rose
P.O. Box 889
Savannah, GA 31402-0889

FROM: Director (CESAD-ET-EL)
SAD Laboratory
USACE
611 South Cobb Drive
Marietta, GA 30060-3112

PROJECT: Ft. Stewart

REQN NO: PMS-96-109
W.O. NO: 7996

SUBJECT: Analytical Testing Results

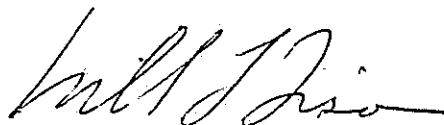
1. Enclosed is our report of analytical test results and chain of custody forms for samples collected on 31 July and 1 August 1996 from Ft. Stewart.
2. If you have any questions, please call Mr. Blaise Willis at 770-919-5295 or me at 770-919-3990.

SUBMITTED BY:

SIGNATURE

DATE:

WILLIAM L. TISON, P. E.
Director, SAD Laboratory



20 Aug 1996

South Atlantic Division Laboratory
U. S. Army Corps of Engineers
611 South Cobb Drive
Marietta, Georgia 30060-3112

District - SAVANNAH

Date Received - 96/08/02

Date Reported - 96/08/16 10:44:50

FT. STEWART ARMY AF

Requisition - PMS-96-109

Work Order - 7996 Job Number - 4050

Lab #	Field ID	Date Sampled	Time Sampled
-----	-----	-----	-----
29678	8101-TK215-S1	96/07/31	15:30

Test Performed	Result	Units	Tested By	Test Date
-----	-----	-----	-----	-----
TOTAL SOLIDS, % OF WET	90.10	%	SPA	96/08/05
AROMATIC VOLATILE ORGANICS	*		SPA	96/08/06
SEMIVOLATILE ORGANICS GC/MS	*		SPA	96/08/10
TRPH	1880.0	MG/KG	SPA	96/08/05

*NOTE: See Attached

Sampled by District Personnel

Checked by: JWS

Signed by:

Blaise Willis

Blaise Willis
Chemist

Sheet 1 of 4

Lab # Field ID

29679 8101-TK207A-S1

Date Sampled Time Sampled

 96/08/01 08:00

Test Performed -----	Result -----	Units -----	Tested By -----	Test Date -----
TOTAL SOLIDS, % OF WET	89.50	%	SPA	96/08/05
AROMATIC VOLATILE ORGANICS	*		SPA	96/08/06
SEMIVOLATILE ORGANICS GC/MS	*		SPA	96/08/10
TRPH	< 11.2	MG/KG	SPA	96/08/05

*NOTE: See Attached

Sampled by District Personnel

Checked by: JWS

Signed by:

Blaise Willis

Blaise Willis
Chemist

Shc 2 of 4

Lab # Field ID

29680 8101-TK207A-S2

Date Sampled Time Sampled

96/08/01 08:15

Test Performed

TOTAL SOLIDS, % OF WET
AROMATIC VOLATILE ORGANICS
SEMIVOLATILE ORGANICS GC/MS
TRPH

Result	Units	Tested By	Test Date
-----	-----	-----	-----
87.10	%	SPA	96/08/05
*		SPA	96/08/06
*		SPA	96/08/10
< 11.5	MG/KG	SPA	96/08/05

*NOTE: See Attached

Sampled by District Personnel

Checked by: JWS

SH t 3 of 4

Signed by:

Blaise Willis

Blaise Willis
Chemist

Lab # Field ID

29681 8101-TK214-S1

Date Sampled

96/08/01

Time Sampled

10:30

Test Performed

Result

Units

Tested
By

Test
Date

TOTAL SOLIDS, % OF WET
AROMATIC VOLATILE ORGANICS
SEMIVOLATILE ORGANICS GC/MS
TRPH

89.00

%

SPA

96/08/05

*

SPA

96/08/06

*

SPA

96/08/10

394.0

MG/KG

SPA

96/08/05

*NOTE: See Attached

Sampled by District Personnel

Checked by: JW

Signed by:



Blaise Willis
Chemist

Sheet 4 of 4

SOUTH ATLANTIC DIVISION LABORATORY
SAMPLE RECEIVING AND COOLER RECEIPT DATA SHEET
CHEMICAL SECTION - Sample Log-In

DATE: 8/2/96

Number of coolers 1

Returned cooler(s) to: Alan C. DeMora

PROJECT: FT. Stewart

W.O.#

JOB# 4050

Coolers(s) opened by (print name) Paul G. McDaniel

(sign) [Signature]

1. Did cooler come with shipping slip?

If yes, enter Tracking Number here 1020383221

☒ yes ☐ no

2. Were custody seals on out side of cooler?

How many? + Date on seal(s) 8/1/96

Name on seal(s) —

☒ yes ☐ no

3. Were custody seals unbroken upon receipt?

☒ yes ☐ no

4. Did you screen sample(s) for "Radioactivity"?

☒ yes ☐ no

5. Were custody papers filled out properly? (ink, signed, etc.)

☒ yes ☐ no

6. Temperature of sample(s) upon receipt: 4c

7. Describe cooler packing: Bubble Bags

8. Did all sample containers arrive unbroken?

☒ yes ☐ no

9. Were the sample containers sealed in separate plastic bags?

☒ yes ☐ no

10. Were labels on containers in good condition and agree with Custody paper?

☒ yes ☐ no

11. Were correct containers used for the test(s) indicated?

☒ yes ☐ no

12. Were correct preservatives added to sample(s)?

☒ yes ☐ no ☐ unk

13. Was a sufficient amount of sample sent for test?

☒ yes ☐ no

14. Were bubbles absent in Volatile sample(s)?

If no, list field ID#

☒ yes ☐ no ☐ N/A

15. Numbers of days from sample date, samples received in Lab 1-2 days

16. Number of Samples: 4

Sample Type: ☒ soil ☐ water ☐ other

SAMPLE ANALYSIS PERFORMED BY: [Signature]

TAT [Signature]

COMMENTS: _____

17. Did you sign custody papers in the appropriate place?

LAB NUMBER(S): 77678-81

SIGNATURE: [Signature]

☒ yes ☐ no

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29678 8101-TK215-S1
FT. STEWART

Lab Number: 96-A047529

Sampler: BOBBI THORN

Date Collected: 7/31/96

Date Received: 8/ 3/96

Time Collected: 15:30

Time Received: 8:30

Sample type: Soil

Organics Reference Data

BNA Blank 574809BB
GC Tune, BNA DF0809B
Calibration Check, BNA CC0809B

Percent solids: 90.1

SEMIVOLATILE ORGANICS and PESTICIDE/PCB's

Analyte	Result	Flag	DF	Units	Date	Time	Analyst	Method
Acenaphthene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Acenaphthylene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Anthracene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Benzo(a)anthracene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Benzo(a)pyrene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Benzo(b)fluoranthene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Benzo(g,h,i)perylene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Benzo(k)fluoranthene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
4-Bromophenylphenylether	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Butylbenzylphthalate	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Carbazole	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
4-Chloro-3-methylphenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
4-Chloroaniline	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
bis(2-Chloroethoxy)methane	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
bis(2-Chloroethyl)ether	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
bis(2-Chloroisopropyl)ether	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2-Chloronaphthalene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29678 8101-TK215-S1
FT. STEWART

Lab Number: 96-A047529

Sampler: BOBBI THORN

Date Collected: 7/31/96

Date Received: 8/ 3/96

Time Collected: 15:30

Time Received: 8:30

Sample type: Soil

SEMIVOLATILE ORGANICS and PESTICIDE/PCB's

yte	Result	Flag	DF	Units	Date	Time	Analyst	Method
2-Chlorophenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
4-Chlorophenylphenylether	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Chrysene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Dibenzofuran	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Dibenz(a,h)anthracene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
1,2-Dichlorobenzene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
1,3-Dichlorobenzene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
1,4-Dichlorobenzene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
3,3'-Dichlorobenzidine	2220	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2,4-Dichlorophenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Dimethylphthalate	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2,4-Dimethylphenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Dimethylphthalate	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Di-n-butylphthalate	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
4,6-Dinitro-2-methylphenol	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2,4-Dinitrophenol	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2,4-dinitrotoluene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2,6-Dinitrotoluene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Di-n-octylphthalate	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Fluoranthene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Fluorene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Hexachlorobenzene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Hexachlorobutadiene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Hexachlorocyclopentadiene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Hexachloroethane	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-5172

Sample Location: 29678 8101-TK215-S1
FT. STEWART

Lab Number: 96-A047529

Sampler: BOBBI THORN

Date Collected: 7/31/96

Date Received: 8/ 3/96

Time Collected: 15:30

Time Received: 8:30

Sample type: Soil

SEMIVOLATILE ORGANICS and PESTICIDE/PCB's

Al /te	Result	Flag	DF	Units	Date	Time	Analyst	Method
Indeno(1,2,3-cd)pyrene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Isophorone	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2-Methylnaphthalene	1110		1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2-Methylphenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
m,p-Methylphenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Naphthalene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2-Nitroaniline	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
3-Nitroaniline	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
4-Nitroaniline	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Nitrobenzene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2-Nitrophenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
4-Nitrophenol	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
N-nitrosodi-n-propylamine	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
N-nitrosodiphenylamine	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Pentachlorophenol	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Phenanthrene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Phenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Pyrene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Bis(2-ethylhexyl)phthalate	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
1,2,4-Trichlorobenzene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2,4,5-Trichlorophenol	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2,4,6-Trichlorophenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Extraction, RNA,s	Completed			ug/kg	8/ 5/96	14:44	C.Gerenser	3550

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29678 8101-TK215-S1
FT. STEWART

Lab Number: 96-A047529

Sampler: BOBBI THORN

Date Collected: 7/31/96

Date Received: 8/ 3/96

Time Collected: 15:30

Time Received: 8:30

Sample type: Soil

UNDERGROUND STORAGE TANK RESULTS

Analyte	Result	Units	PQL	Dil Factor	Date	Time	Analyst	Method
Benzene	< 0.111	mg/kg	0.111	1	8/ 6/96	2:32	S. Wani	8020
Toluene	< 0.111	mg/kg	0.111	1	8/ 6/96	2:32	S. Wani	8020
Ethylbenzene	< 0.111	mg/kg	0.111	1	8/ 6/96	2:32	S. Wani	8020
Xylenes, total	< 0.111	mg/kg	0.111	1	8/ 6/96	2:32	S. Wani	8020
Petroleum Hydrocarbons, IR	1880	mg/kg	11.1	1	8/ 5/96	16:00	M.Himelick	418.1 M

Sample Extraction Data

BNA's Extracted 8/ 5/96 Wt extracted: 10.0 gm Extract Volume: 1.0 ml

**** QUALITY CONTROL DATA ******Surrogate Recoveries**

Surrogate	% Recovery	Target Range
PRO Surrogate, soil	72.	50 - 150
BNA Surrogate, Nitrobenzene	70.0	23 - 120
BNA Surr., 2-Fluorobiphenyl	94.0	30 - 115
BNA Surrogate, Terphenyl d14	108.	18 - 140

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Lab Number: 96-A047529

Sample ID: 29678 8101-TK215-S1

Date Collected: 7/31/96

Project: CALL #124

Time Collected: 15:30

Project Name:

Date Received: 8/ 3/96

Sampler: BOBBI THORN

Time Received: 8:30

State Certification:

Sample Type: Soil

Site I.D.:

**** QUALITY CONTROL DATA ****

Surrogate Recoveries

Surrogate	% Recovery	Target Range
BNA Surrogate, Phenol d5	82.0	10 - 115
BNA Surrogate, 2-Fluorophenol	60.0	20 - 121
BNA Surrogate, 2,4,6-Tribromophenol	106.	19 - 122

Due to sample matrix, semivolatile results were elevated.

Report Approved By:

Theodore J. Duello

Report Date: 8/14/96

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

**SPECIALIZED ASSAYS, INC.**

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29679 8101-TK207A-S1
FT. STEWART

Lab Number: 96-A047530

Sampler: BOBBI THORN

Date Collected: 8/ 1/96

Date Received: 8/ 3/96

Time Collected: 8:00

Time Received: 8:30

Sample type: Soil

Organics Reference Data

BNA Blank 57480SBB
GL 3 Tune, BNA DF0809B
Calibration Check, BNA CC0809B

Percent solids: 89.5

SEMIVOLATILE ORGANICS and PESTICIDE/PCB's

Analyte	Result	Flag	DF	Units	Date	Time	Analyst	Method
Acenaphthene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Acenaphthylene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Anthracene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Benzo (a) anthracene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Benzo (a) pyrene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Benzo (b) fluoranthene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Benzo (g,h,i) perylene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Benzo (k) fluoranthene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
4-Bromophenylphenylether	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Butylbenzylphthalate	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Carbazole	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
4-Chloro-3-methylphenol	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
4-Chloroaniline	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
b (2-Chloroethoxy)methane	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
b (2-Chloroethyl)ether	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
bis(2-Chloroisopropyl)ether	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
2-Chloronaphthalene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29679 8101-TK207A-S1
FT. STEWART

Lab Number: 96-A047530

Sampler: BOBBI THORN

Date Collected: 8/ 1/96

Date Received: 8/ 3/96

Time Collected: 8:00

Time Received: 8:30

Sample type: Soil

SEMIVOLATILE ORGANICS and PESTICIDE/PCB's

AK /te	Result	Flag	DF	Units	Date	Time	Analyst	Method
2-Chlorophenol	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
4-Chlorophenylphenylether	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Chrysene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Dibenzofuran	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Dibenz(a,h)anthracene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
1,2-Dichlorobenzene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
1,3-Dichlorobenzene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
1,4-Dichlorobenzene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
3,3'-Dichlorobenzidine	2230	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
2,4-Dichlorophenol	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
2-Methylphthalate	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
2,4-Dimethylphenol	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Dimethylphthalate	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Di-n-butylphthalate	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
4,6-Dinitro-2-methylphenol	2790	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
2,4-Dinitrophenol	2790	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
2,4-dinitrotoluene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
2,6-Dinitrotoluene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Di-n-octylphthalate	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Fluoranthene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Fluorene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Hexachlorobenzene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Hexachlorobutadiene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Hexachlorocyclopentadiene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Hexachloroethane	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29679 8101-TK207A-S1
FT. STEWART

Lab Number: 96-A047530

Sampler: BOBBI THORN

Date Collected: 8/ 1/96

Date Received: 8/ 3/96

Time Collected: 8:00

Time Received: 8:30

Sample type: Soil

SEMIVOLATILE ORGANICS and PESTICIDE/PCB's

Analyte	Result	Flag	DF	Units	Date	Time	Analyst	Method
Indeno(1,2,3-cd)pyrene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Isophorone	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
2-Methylnaphthalene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
2-Methylphenol	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
m,p-Methylphenol	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Naphthalene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
2-Nitroaniline	2790	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
3-Nitroaniline	2790	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
4-Nitroaniline	2790	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Nitrobenzene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
2-Nitrophenol	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
4-Nitrophenol	2790	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
N-nitrosodi-n-propylamine	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
N-nitrosodiphenylamine	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Pentachlorophenol	2790	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Phenanthrene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Phenol	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Pyrene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Bis(2-ethylhexyl)phthalate	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
1,2,4-Trichlorobenzene	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
2,4,5-Trichlorophenol	2790	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
2,6-Trichlorophenol	1120	U	1	ug/kg	8/10/96	5:09	M.Goodrich	8270B
Extraction, BNA,s	Completed			ug/kg	8/ 5/96	14:44	C.Gerenser	3550

**SPECIALIZED ASSAYS, INC.**

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29679 8101-TK207A-S1
FT. STEWART

Lab Number: 96-A047530

Sampler: BOBBI THORN

Date Collected: 8/ 1/96

Date Received: 8/ 3/96

Time Collected: 8:00

Time Received: 8:30

Sample type: Soil

UNDERGROUND STORAGE TANK RESULTS

Analyte	Result	Units	PQL	Dil Factor	Date	Time	Analyst	Method
Benzene	< 0.112	mg/kg	0.112	1	8/ 6/96	3:04	S. Wani	8020
Toluene	< 0.112	mg/kg	0.112	1	8/ 6/96	3:04	S. Wani	8020
Ethylbenzene	< 0.112	mg/kg	0.112	1	8/ 6/96	3:04	S. Wani	8020
Xylenes, total	< 0.112	mg/kg	0.112	1	8/ 6/96	3:04	S. Wani	8020
Petroleum Hydrocarbons, IR	< 11.2	mg/kg	11.2	1	8/ 5/96	16:00	M. Himelick	418.1 M

Sample Extraction Data

BNA's Extracted 8/ 5/96 Wt extracted: 10.0 gm Extract Volume: 1.0 ml

**** QUALITY CONTROL DATA ******Surrogate Recoveries**

Surrogate	% Recovery	Target Range
TRD Surrogate, soil	72.	50 - 150
dNA Surrogate, Nitrobenzene	64.0	23 - 120
BNA Surr., 2-Fluorobiphenyl	92.0	30 - 115
BNA Surrogate, Terphenyl d14	98.0	18 - 140



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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Lab Number: 96-A047530

Sample ID: 29679 8101-TK207A-S1

Date Collected: 8/ 1/96

Project: CALL #124

Time Collected: 8:00

Project Name:

Date Received: 8/ 3/96

Sampler: BOBBI THORN

Time Received: 8:30

State Certification:

Sample Type: Soil

Site I.D.:

** QUALITY CONTROL DATA **

Surrogate Recoveries

Surrogate	% Recovery	Target Range
BNA Surrogate, Phenol d5	82.0	10 - 115
BNA Surrogate, 2-Fluorophenol	62.0	20 - 121
BNA Surrogate, 2,4,6-Tribromophenol	106.	19 - 122

Due to sample matrix, semivolatile results were elevated.

Report Approved By:

Report Date: 8/14/96

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29680 8101-TK207A-S2
FT. STEWART

Lab Number: 96-AQ47531

Sampler: BOBBI THORN

Date Collected: 8/ 1/96

Date Received: 8/ 3/96

Time Collected: 8:15

Time Received: 8:30

Sample type: Soil

Organics Reference Data

BNA Blank 57480SBB
GC Tune, BNA DF0809B
Calibration Check, BNA CD0809B

Percent solids: 87.1

SEMIVOLATILE ORGANICS and PESTICIDE/PCB's

Analyte	Result	Flag	DF	Units	Date	Time	Analyst	Method
Acenaphthene	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
Acenaphthylene	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
Anthracene	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
Benzo(a)anthracene	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
Benzo(a)pyrene	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
Benzo(b)fluoranthene	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
Benzo(g,h,i)perylene	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
Benzo(k)fluoranthene	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
4-Bromophenylphenylether	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
Butylbenzylphthalate	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
Carbazole	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
4-Chloro-3-methylphenol	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
4-Chloroaniline	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
bis(2-Chloroethoxy)methane	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
bis(1-Chloroethyl)ether	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
bis(2-Chloroisopropyl)ether	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B
2-Chloronaphthalene	1150	U	1	ug/kg	8/10/96	5:45	M. Goodrich	8270B



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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29680 8101-TK207A-S2
FT. STEWART

Lab Number: 96-A047531

Sampler: BOBBI THORN

Date Collected: 8/ 1/96

Date Received: 8/ 3/96

Time Collected: 8:15

Time Received: 8:30

Sample type: Soil

SEMIVOLATILE ORGANICS and PESTICIDE/PCB's

Ante	Result	Flag	DF	Units	Date	Time	Analyst	Method
2-Chlorophenol	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
4-Chlorophenylphenylether	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Chrysene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Dibenzofuran	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Dibenz(a,h)anthracene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
1,2-Dichlorobenzene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
1,3-Dichlorobenzene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
1,4-Dichlorobenzene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
3,3'-Dichlorobenzidine	2300	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
2,4-Dichlorophenol	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Diethylphthalate	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
2,4-Dimethylphenol	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Dimethylphthalate	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Di-n-butylphthalate	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
4,6-Dinitro-2-methylphenol	2870	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
2,4-Dinitrophenol	2870	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
2,4-dinitrotoluene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
2,6-Dinitrotoluene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Di-n-octylphthalate	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Fluoranthene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Fluorene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Hexachlorobenzene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Hexachlorobutadiene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Hexachlorocyclopentadiene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Hexachloroethane	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29680 8101-TK207A-S2
FT. STEWART

Lab Number: 96-A047531

Sampler: BOBBI THORN

Date Collected: 8/ 1/96

Date Received: 8/ 3/96

Time Collected: 8:15

Time Received: 8:30

Sample type: Soil

SEMIVOLATILE ORGANICS and PESTICIDE/PCB's

yte	Result	Flag	DF	Units	Date	Time	Analyst	Method
Indeno(1,2,3-cd)pyrene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Isophorone	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
2-Methylnaphthalene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
2-Methylphenol	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
m,p-Methylphenol	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Naphthalene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
2-Nitroaniline	2870	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
3-Nitroaniline	2870	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
4-Nitroaniline	2870	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Nitrobenzene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
2-Nitrophenol	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
4-Nitrophenol	2870	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
N-nitrosodi-n-propylamine	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
N-nitrosodiphenylamine	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Pentachlorophenol	2870	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Phenanthrene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Phenol	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Pyrene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Bis(2-ethylhexyl)phthalate	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
1,2,4-Trichlorobenzene	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
2,4,5-Trichlorophenol	2870	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
2,4,6-Trichlorophenol	1150	U	1	ug/kg	8/10/96	5:45	M.Goodrich	8270B
Reaction, BNA,s	Completed			ug/kg	8/ 5/96	14:44	C.Gerenser	3550

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29680 8101-TK207A-S2
FT. STEWART

Lab Number: 96-A047531

Sampler: BOBBI THORN

Date Collected: 8/ 1/96

Date Received: 8/ 3/96

Time Collected: 8:15

Time Received: 8:30

Sample type: Soil

UNDERGROUND STORAGE TANK RESULTS

Analyte	Result	Units	PQL	Dil Factor	Date	Time	Analyst	Method
Benzene	< 0.115	mg/kg	0.115	1	8/ 6/96	3:37	S. Wani	8020
Toluene	< 0.115	mg/kg	0.115	1	8/ 6/96	3:37	S. Wani	8020
Ethylbenzene	< 0.115	mg/kg	0.115	1	8/ 6/96	3:37	S. Wani	8020
Xylenes, total	< 0.115	mg/kg	0.115	1	8/ 6/96	3:37	S. Wani	8020
Petroleum Hydrocarbons, IR	< 11.5	mg/kg	11.5	1	8/ 5/96	16:00	M.Himelick	418.1 M

Sample Extraction Data

BNA's Extracted 8/ 5/96 Wt extracted: 10.0 gm Extract Volume: 1.0 ml

**** QUALITY CONTROL DATA ******Surrogate Recoveries**

Surrogate	% Recovery	Target Range
BRO Surrogate, soil	79.	50 - 150
BNA Surrogate, Nitrobenzene	64.0	23 - 120
BNA Surr., 2-Fluorobiphenyl	90.0	30 - 115
BNA Surrogate, Terphenyl d14	100.	18 - 140



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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Lab Number: 96-A047531

Sample ID: 29680 8101-TK207A-S2

Date Collected: 8/ 1/96

Project: CALL #124

Time Collected: 8:15

Project Name:

Date Received: 8/ 3/96

Sampler: BOBBI THORN

Time Received: 8:30

State Certification:

Sample Type: Soil

Site I.D.:

** QUALITY CONTROL DATA **

Surrogate Recoveries

Surrogate	% Recovery	Target Range
BNA Surrogate, Phenol d5	80.0	10 - 115
BNA Surrogate, 2-Fluorophenol	58.0	20 - 121
BNA Surrogate, 2,4,6-Tribromophenol	96.0	19 - 122

Due to sample matrix, semivolatile results were elevated.

Report Approved By:

Report Date: 8/14/96

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29681 8101-TK214-S1
FT. STEWART

Lab Number: 96-A047532

Sampler: BOBBI THORN

Date Collected: 8/ 1/96

Date Received: 8/ 3/96

Time Collected: 10:30

Time Received: 8:30

Sample type: Soil

Organics Reference Data

BNA Blank 57480SBB
GC Tune, BNA DF0809B
Calibration Check, BNA CC0809B

Percent solids: 89.0

SEMIVOLATILE ORGANICS and PESTICIDE/PCB's

Analyte	Result	Flag	DF	Units	Date	Time	Analyst	Method
Acenaphthene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Acenaphthylene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Anthracene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Benzo(a)anthracene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Benzo(a)pyrene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Benzo(b)fluoranthene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Benzo(g,h,i)perylene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Benzo(k)fluoranthene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
4-Bromophenylphenylether	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Butylbenzylphthalate	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Carbazole	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
4-Chloro-3-methylphenol	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
4-Chloroaniline	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
bis(2-Chloroethoxy)methane	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
bis(2-Chloroethyl)ether	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
bis(2-Chloroisopropyl)ether	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
2-Chloronaphthalene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29681 8101-TK214-S1
FT. STEWART

Lab Number: 96-A047532

Sampler: BOBBI THORN

Date Collected: 8/ 1/96

Date Received: 8/ 3/96

Time Collected: 10:30

Time Received: 8:30

Sample type: Soil

SEMIVOLATILE ORGANICS and PESTICIDE/PCB's

AC /te	Result	Flag	DF	Units	Date	Time	Analyst	Method
2-Chlorophenol	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
4-Chlorophenylphenylether	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Chrysene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Dibenzofuran	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Dibenz(a,h)anthracene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
1,2-Dichlorobenzene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
1,3-Dichlorobenzene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
1,4-Dichlorobenzene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
3,3'-Dichlorobenzidine	2250	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
2,4-Dichlorophenol	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Diethylphthalate	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
2,4-Dimethylphenol	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Dimethylphthalate	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Di-n-butylphthalate	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
4,6-Dinitro-2-methylphenol	2810	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
2,4-Dinitrophenol	2810	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
2,4-dinitrotoluene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
2,6-Dinitrotoluene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Di-n-octylphthalate	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Fluoranthene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Fluorene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Hexachlorobenzene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Hexachlorobutadiene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Hexachlorocyclopentadiene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Hexachloroethane	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B

**SPECIALIZED ASSAYS, INC.**

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29681 8101-TK214-S1
FT. STEWART

Lab Number: 96-A047532

Sampler: BOBBI THORN

Date Collected: 8/ 1/96

Date Received: 8/ 3/96

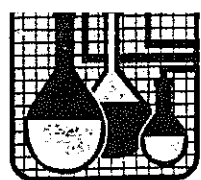
Time Collected: 10:30

Time Received: 8:30

Sample type: Soil

SEMIVOLATILE ORGANICS and PESTICIDE/PCB's

Ac yte	Result	Flag	DF	Units	Date	Time	Analyst	Method
Indeno (1,2,3-cd)pyrene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Isophorone	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
2-Methylnaphthalene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
2-Methylphenol	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
m,p-Methylphenol	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Naphthalene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
2-Nitroaniline	2810	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
3-Nitroaniline	2810	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
4-Nitroaniline	2810	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Nitrobenzene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
2-Nitrophenol	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
4-Nitrophenol	2810	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
N-nitrosodi-n-propylamine	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
N-nitrosodiphenylamine	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Pentachlorophenol	2810	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Phenanthrene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Phenol	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Pyrene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Bis(2-ethylhexyl)phthalate	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
1,2,4-Trichlorobenzene	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
2,4,5-Trichlorophenol	2810	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
2,4,6-Trichlorophenol	1120	U	1	ug/kg	8/10/96	6:21	M.Goodrich	8270B
Ex action, BNA,s	Completed			ug/kg	8/ 5/96	14:44	C.Gerenser	3550

**SPECIALIZED ASSAYS, INC.**

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29681 8101-TK214-S1
FT. STEWART

Lab Number: 96-A047532

Sampler: BOBBI THORN

Date Collected: 8/ 1/96

Date Received: 8/ 3/96

Time Collected: 10:30

Time Received: 8:30

Sample type: Soil

UNDERGROUND STORAGE TANK RESULTS

Analyte	Result	Units	PQL	Dil Factor	Date	Time	Analyst	Method
Benzene	< 0.112	mg/kg	0.112	1	8/ 6/96	4:09	S. Wani	8020
Toluene	< 0.112	mg/kg	0.112	1	8/ 6/96	4:09	S. Wani	8020
Ethylbenzene	< 0.112	mg/kg	0.112	1	8/ 6/96	4:09	S. Wani	8020
Xylenes, total	< 0.112	mg/kg	0.112	1	8/ 6/96	4:09	S. Wani	8020
Petroleum Hydrocarbons, IR	394.	mg/kg	11.2	1	8/ 5/96	16:00	M.Himelick	418.1 M

Sample Extraction Data

BNA's Extracted 6/15/96 Wt extracted: 10.0 gm Extract Volume: 10 ml

**** QUALITY CONTROL DATA ******Surrogate Recoveries**

Surrogate	% Recovery	Target Range
GRD Surrogate, soil	93.	50 - 150
'A Surrogate, Nitrobenzene	68.0	23 - 120
pNA Surr., 2-Fluorobiphenyl	96.0	30 - 115
BNA Surrogate, Terphenyl d14	108.	18 - 140

**SPECIALIZED ASSAYS, INC.**

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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Lab Number: 96-A047532

Sample ID: 29681 8101-TK214-S1

Date Collected: 8/ 1/96

Project: CALL #124

Time Collected: 10:30

Project Name:

Date Received: 8/ 3/96

Sampler: BOBBI THORN

Time Received: 8:30

State Certification:

Sample Type: Soil

Site I.D.:

**** QUALITY CONTROL DATA ****

surrogate Recoveries

Surrogate	% Recovery	Target Range
BNA Surrogate, Phenol d5	82.0	10 - 115
BNA Surrogate, 2-Fluorophenol	62.0	20 - 121
BNA Surrogate, 2,4,6-Tribromophenol	118.	19 - 122

Due to sample matrix, semivolatile results were elevated.

Report Approved By:

Theodore J. Duello

Report Date: 8/14/96

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.



SPECIALIZED ASSAYS, INC.

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Nashville, TN 37204-0566
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PROJECT QUALITY CONTROL DATA

DIRECTOR U.S. ARMY CORPS ENG. 5394

Report Number: 96-A047533

Sample I.D.: METHOD BLANK

Lab Project: 49229

Project: CALL #124

Date Received: 8/ 3/96

** UST Spike/Duplicate Results **

Compound	%Recovery	Target Range	Precision RPD	Target Range
Benzene QC	110.	70 - 130	3.1	0 - 20
Toluene QC	106.	70 - 130	3.2	0 - 20
Ethyl benzene QC	106.	70 - 130	3.2	0 - 20
Xylene QC	106.	70 - 130	0.0	0 - 20
THF, 418.1	108.	75 - 125	0.4	0 - 25.0

** Organics Spike/Duplicate Results **

Compound	%Recovery	Target Range	Precision RPD	Target Range
Phenol	64.	26 - 90	3.0	0 - 35
2-Chlorophenol	52.	25 - 102	4.0	0 - 50
1,4-Dichlorobenzene	58.	28 - 104	2.0	0 - 27
Nitroso-di-n-propylamine	74.	41 - 126	0.0	0 - 38
1,2,4-Trichlorobenzene	71.	35 - 107	1.0	0 - 23
4-Chloro-3-methylphenol	75.	26 - 103	3.0	0 - 33
Acenaphthene	78.	31 - 137	1.0	0 - 19
4-Nitrophenol	98.	11 - 114	3.0	0 - 50
2,4-Dinitrotoluene	78.	28 - 100	1.0	0 - 47
Pentachlorophenol	89.	17 - 109	2.0	0 - 47
Pyrene	73.	35 - 142	6.0	0 - 36

** Semi-Volatile Organics Method Blank Results ***

Compound	Result	Flag	Units	Method
Acenaphthene	330.	U	ug/kg	8270B
Acenaphthylene	330.	U	ug/kg	8270B



SPECIALIZED ASSAYS, INC.

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PROJECT QUALITY CONTROL DATA

DIRECTOR U.S. ARMY CORPS ENG. 5394

Report Number: 96-A047533

Sample I.D.: METHOD BLANK

Lab Project: 49229

Project: CALL #124

Date Received: 8/ 3/96

** Semi-Volatile Organics Method Blank Results ***

Compound	Result	Flag	Units	Method
Anthracene	330.	U	ug/kg	8270B
Benzo (a)anthracene	330.	U	ug/kg	8270B
Benzo (a)pyrene	330.	U	ug/kg	8270B
Benzo (b)fluoranthene	330.	U	ug/kg	8270B
Benzo (g,h,i)perylene	330.	U	ug/kg	8270B
Benzo (k)fluoranthene	330.	U	ug/kg	8270B
4-mophenylphenylether	330.	U	ug/kg	8270B
Bu benzylphthalate	330.	U	ug/kg	8270B
Carbazole	330.	U	ug/kg	8270B
4-Chloro-3-methylphenol	330.	U	ug/kg	8270B
4-Chloroaniline	330.	U	ug/kg	8270B
bis(2-Chloroethoxy)methane	330.	U	ug/kg	8270B
bis(2-Chloroethyl)ether	330.	U	ug/kg	8270B
bis(2-Chloroisopropyl)ether	330.	U	ug/kg	8270B
2-Chloronaphthalene	330.	U	ug/kg	8270B
2-Chlorophenol	330.	U	ug/kg	8270B
4-Chlorophenylphenylether	330.	U	ug/kg	8270B
Chrysene	330.	U	ug/kg	8270B
Dibenzofuran	330.	U	ug/kg	8270B
Dibenz(a,h)anthracene	330.	U	ug/kg	8270B
1,2-Dichlorobenzene	330.	U	ug/kg	8270B
1,3-Dichlorobenzene	330.	U	ug/kg	8270B
1,4-Dichlorobenzene	330.	U	ug/kg	8270B
3,3'-Dichlorobenzidine	670.	U	ug/kg	8270B
2,4-Dichlorophenol	330.	U	ug/kg	8270B
Diethylphthalate	330.	U	ug/kg	8270B
2,4-Dimethylphenol	330.	U	ug/kg	8270B
Dimethylphthalate	330.	U	ug/kg	8270B
Di-n-butylphthalate	330.	U	ug/kg	8270B
4,6-Dinitro-2-methylphenol	830.	U	ug/kg	8270B
2,4-Dinitrophenol	830.	U	ug/kg	8270B
2,4-Nitrotoluene	330.	U	ug/kg	8270B
2,6-Nitrotoluene	330.	U	ug/kg	8270B
Di-n-octylphthalate	330.	U	ug/kg	8270B



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PROJECT QUALITY CONTROL DATA

DIRECTOR U.S. ARMY CORPS ENG. 5394

Report Number: 96-A047533

Sample I.D.: METHOD BLANK

Lab Project: 49229

Project: CALL #124

Date Received: 8/ 3/96

** Semi-Volatile Organics Method Blank Results ***

Compound	Result	Flag	Units	Method
Fluoranthene	330.	U	ug/kg	8270B
Fluorene	330.	U	ug/kg	8270B
Hexachlorobenzene	330.	U	ug/kg	8270B
Hexachlorobutadiene	330.	U	ug/kg	8270B
Hexachlorocyclopentadiene	330.	U	ug/kg	8270B
Hexachloroethane	330.	U	ug/kg	8270B
Indeno(1,2,3-cd)pyrene	330.	U	ug/kg	8270B
Isodurene	330.	U	ug/kg	8270B
2-Methylnaphthalene	330.	U	ug/kg	8270B
2-Methylphenol	330.	U	ug/kg	8270B
m,p-Methylphenol	330.	U	ug/kg	8270B
Naphthalene	330.	U	ug/kg	8270B
2-Nitroaniline	830.	U	ug/kg	8270B
3-Nitroaniline	830.	U	ug/kg	8270B
4-Nitroaniline	830.	U	ug/kg	8270B
Nitrobenzene	330.	U	ug/kg	8270B
2-Nitrophenol	330.	U	ug/kg	8270B
4-Nitrophenol	830.	U	ug/kg	8270B
N-nitrosodi-n-propylamine	330.	U	ug/kg	8270B
N-nitrosodipropylamine	330.	U	ug/kg	8270B
Pentachlorophenol	830.	U	ug/kg	8270B
Phenanthrene	330.	U	ug/kg	8270B
Phenol	330.	U	ug/kg	8270B
Pyrene	330.	U	ug/kg	8270B
Bis(2-ethylhexyl)phthalate	330.	U	ug/kg	8270B
1,2,4-Trichlorobenzene	330.	U	ug/kg	8270B
2,4,5-Trichlorophenol	830.	U	ug/kg	8270B
2,4,6-Trichlorophenol	330.	U	ug/kg	8270B

Theodore J. Smith

Data File : C:\HPCHEM\1\DATA\DF0809C.D
Acq On : 10 Aug 96 6:57 am
Sample : tune
Misc :

Vial: 2
Operator: HP - 5
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270.M
File : SW846 METHOD 8270

Scan Number 2837

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.3	2246	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	58.8	2679	PASS
70	69	0	2	0.1	3	PASS
127	198	30	60	43.5	1982	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	4556	PASS
199	198	5	9	6.7	303	PASS
275	198	10	30	25.9	1180	PASS
365	198	1	100	2.9	134	PASS
441	443	0	100	0.3	14	PASS
442	198	40	100	99.9	4551	PASS
443	442	17	23	18.7	853	PASS

DF0809C.D 8270.M

Sat Aug 10 15:43:44 1996

Data File : C:\HPCHEM\1\DATA\CC0809C.D
 Acq On : 10 Aug 96 7:33 am
 Sample : 50 ppm con cal
 Misc :

Vial: 3
 Operator: HP - 5
 Inst : 5972 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270.M
 File : SW846 METHOD 8270
 Last Update : Tue Aug 06 16:17:22 1996
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	72	-0.05
2 T	Pyridine	0.202	0.149	26.3	54	0.00
3 T	N-Nitroso-dimethylamine	0.664	0.581	12.4	59	0.00
4 S	2-Fluorophenol	0.871	0.910	-4.4	62	-0.03
5	Aniline	1.190	1.072	9.9	57	-0.05
6	Bis-(2-Chloroethyl) ether	0.909	0.774	14.9	56	-0.05
7 S	Phenol-d5	1.004	0.901	10.3	53	-0.05
8 MC	Phenol	1.048	0.935	10.7	58	-0.05
9 M	2-Chlorophenol	0.789	0.788	0.1	66	-0.05
10	1,3-Dichlorobenzene	0.797	0.800	-0.4	65	-0.05
11 MC	1,4-Dichlorobenzene	0.833	0.824	1.1	61	-0.05
12	1,2-Dichlorobenzene	0.787	0.746	5.2	62	-0.05
13	Benzyl Alcohol	0.673	0.665	1.1	65	-0.07
14	Bis-(2-chloroisopropyl) ethe	0.100	0.094	5.8	61	-0.05
15	2-Methylphenol	0.678	0.630	7.1	61	-0.05
16	Hexachloroethane	0.321	0.308	4.2	62	-0.05
17	N-Nitroso-di-n-propylamine	0.533	0.514	3.5	63	-0.06
18	3,4-Methylphenol	0.843	0.788	6.6	61	-0.06
19 I	Naphthalene-d8	1.000	1.000	0.0	66	-0.05
20 S	Nitrobenzene-d5	0.478	0.488	-2.1	66	-0.06
21	Nitrobenzene	0.411	0.433	-5.3	62	-0.06
22	Isophorone	0.920	0.875	4.9	58	-0.07
23 C	2-Nitrophenol	0.213	0.246	-15.7	67	-0.06
24	2,4-Dimethylphenol	0.372	0.397	-6.7	67	-0.07
25	Bis-(2-chloroethoxy) methane	0.525	0.483	7.8	58	-0.06
26 C	2,4-Dichlorophenol	0.308	0.324	-5.3	63	-0.06
27	Benzoic acid	0.153	0.221	-44.8	145	-0.10
28 M	1,2,4-Trichlorobenzene	0.325	0.333	-2.5	61	-0.05
29	Naphthalene	0.895	0.841	6.1	58	-0.06
30	4-chloroaniline	0.435	0.390	10.3	53	-0.06
31 C	Hexachlorobutadiene	0.175	0.198	-13.6	68	-0.06
32	4-Chloro-3-methylphenol	0.315	0.326	-3.6	65	-0.05
33	2-Methylnaphthalene	0.591	0.534	9.6	54	-0.06
34 I	Acenaphthene-d10	1.000	1.000	0.0	72	-0.05
35 P	Hexachlorocyclopentadiene	0.215	0.107	50.2	34	-0.05
36 C	2,4,6-Trichlorophenol	0.401	0.403	-0.5	65	-0.05
37	2,4,5-Trichlorophenol	0.378	0.392	-3.7	64	-0.06
38 S	2-fluorobiphenyl	1.257	1.073	14.6	62	-0.07
39	2-Chloronaphthalene	1.070	0.985	7.9	60	-0.06
40	2-Nitroaniline	0.453	0.432	4.7	59	-0.06
41	Acenaphthylene	1.521	1.313	13.7	57	-0.06
42	Dimethylphthalate	1.210	1.166	3.6	63	-0.06
43	2,6-Dinitrotoluene	0.324	0.340	-5.0	65	-0.07
44	3-Nitroaniline	0.310	0.247	20.2	53	-0.07

46	P	2,4-dinitrophenol	0.155	0.125	19.3	47	-0.07
47		Dibenzofuran	1.481	1.347	9.1	60	-0.07
48	M	2,4-Dinitrotoluene	0.410	0.420	-2.4	62	-0.07
49	MP	4-Nitrophenol	0.246	0.268	-8.6	67	-0.07
50		Fluorene	1.134	1.040	8.2	63	-0.07
51		4-Chlorophenyl phenylether	0.533	0.478	10.4	59	-0.07
52		Diethylphthalate	1.129	1.099	2.7	74	-0.07
53		4-Nitroaniline	0.365	0.321	12.1	54	-0.10
54		Azobenzene	1.125	1.346	-19.7	71	-0.07
55	I	Phenanthrene-d10	1.000	1.000	0.0	75	-0.07
56		4,6-Dinitro-2-methylphenol	0.110	0.091	17.1	46	-0.08
57	C	N-Nitroso-diphenylamine	0.423	0.362	14.5	60	-0.06
58	S	Tribromophenol	0.140	0.145	-3.6	61	-0.07
59		4-Bromophenyl phenyl ether	0.189	0.177	6.4	64	-0.07
60		Hexachlorobenzene	0.251	0.247	1.8	65	-0.07
61	MC	Pentachlorophenol	0.159	0.179	-12.8	71	-0.07
62		Phenanthrene	0.861	0.800	7.1	61	-0.16
63		Anthracene	0.861	0.815	5.3	62	-0.07
64		Carbazole	0.857	0.752	12.2	60	-0.08
65		Di-n-butyl phthalate	1.219	1.149	5.7	66	-0.07
66	C	Fluoranthene	0.947	0.927	2.2	66	-0.08
67	I	Chrysene-d12	1.000	1.000	0.0	73	-0.07
68		Benzidine	0.374	0.107	71.3	20	-0.09
69	M	Pyrene	1.139	1.134	0.4	64	-0.08
70	S	Terphenyl-d14	0.947	0.882	6.8	66	-0.08
71		Butylbenzylphthalate	0.699	0.685	2.1	66	-0.07
72		3,3'-Dichlorobenzidine	0.362	0.354	2.1	61	-0.08
73		Benzo(a)anthracene	1.087	0.859	20.9	51	0.04
74		Chrysene	0.911	0.825	9.4	63	-0.09
75		Bis-(2-ethylhexyl)phthalate	0.915	0.879	4.0	65	-0.07
76	I	Perylene-d12	1.000	1.000	0.0	64	-0.07
77	C	Di-n-octylphthalate	1.429	1.544	-8.1	65	-0.09
78		Benzo(b)fluoranthene	1.122	1.241	-10.6	81	-0.10
79		Benzo(k)fluoranthene	1.122	1.106	1.5	72	-0.03
80	C	Benzo(a)pyrene	0.948	0.970	-2.3	59	-0.09
81		Indeno(1,2,3-cd)pyrene	1.035	0.829	19.9	46	-0.10
82		Dibenz(a,h)anthracene	0.936	0.870	7.0	52	-0.10
83		Benzo(g,h,i)perylene	0.920	0.829	9.9	90	-0.10

(#) = Out of Range
0500805 D 8270.M

SPCC's out = 0 CCC's out = 0
Sat Aug 10 15 42 22 1996

TAB 9

MANIFESTS

REYNOLDS CONSTRUCTION COMPANY

Highway 84 • P. O. Box 749

Ludowici, Georgia 31316

Office (912) 368-7488 • Plant (912) 876-8085

Date	19	Load No.	50
Customer	Triple R. Mast	Description	PCS
Project Number	R.R. 104		
Location	Stewart	County	Stewart

45340 lb Net

21460 lb Tare

66800 lb+ Gross

12:06 PM AU 30 96

Signature of Weigher

TONS:

22.67

TOTAL TONS:

918.56

~~922.56~~

~~879.58~~

TRUCKER

DRIVER

Vendrick
JOEY SPELL

TRUCK NO.

TICKET NO. 60162

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NON-HAZARDOUS WASTE MANIFEST		Manifest Document No.	1. Page 1 of 1
2. Generator's Name and Mailing Address Ft. Stewart Hinesville, GA 31313			
3. Generator's Phone (912) 234-6579			
4. Transporter 1 Company Name Hendricks Hauling			
5. Transporter 2 Company Name			
6. Designated Facility Name and Site Address Triple R Management, Inc. C/O Reynolds Construction Co. Rt. 84 Ludowici GA 31316		A. Transporter's Phone B. Transporter's Phone 912-427-6758 C. Facility's Phone 912-756-3655	
7. Waste Shipping Name and Description	8. Containers No. Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	1 TT	18.00	CY
b.			
c.			
d.			
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above	
11. Special Handling Instructions and Additional Information 8101 Tank# _____			
12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.			
Printed/Typed Name Tom Fry		Signature Tom Fry Month Day Year 10 8 1996	
13. Transporter 1 Acknowledgement of Receipt of Materials			
Printed/Typed Name Joe Spell		Signature Joe Spell Month Day Year 08 30 96	
14. Transporter 2 Acknowledgement of Receipt of Materials			
Printed/Typed Name		Signature Month Day Year	
15. Discrepancy Indication Space			
16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.			
Printed/Typed Name Charles Pruitt		Signature Charles Pruitt Month Day Year 8 30 96	

GENERATOR

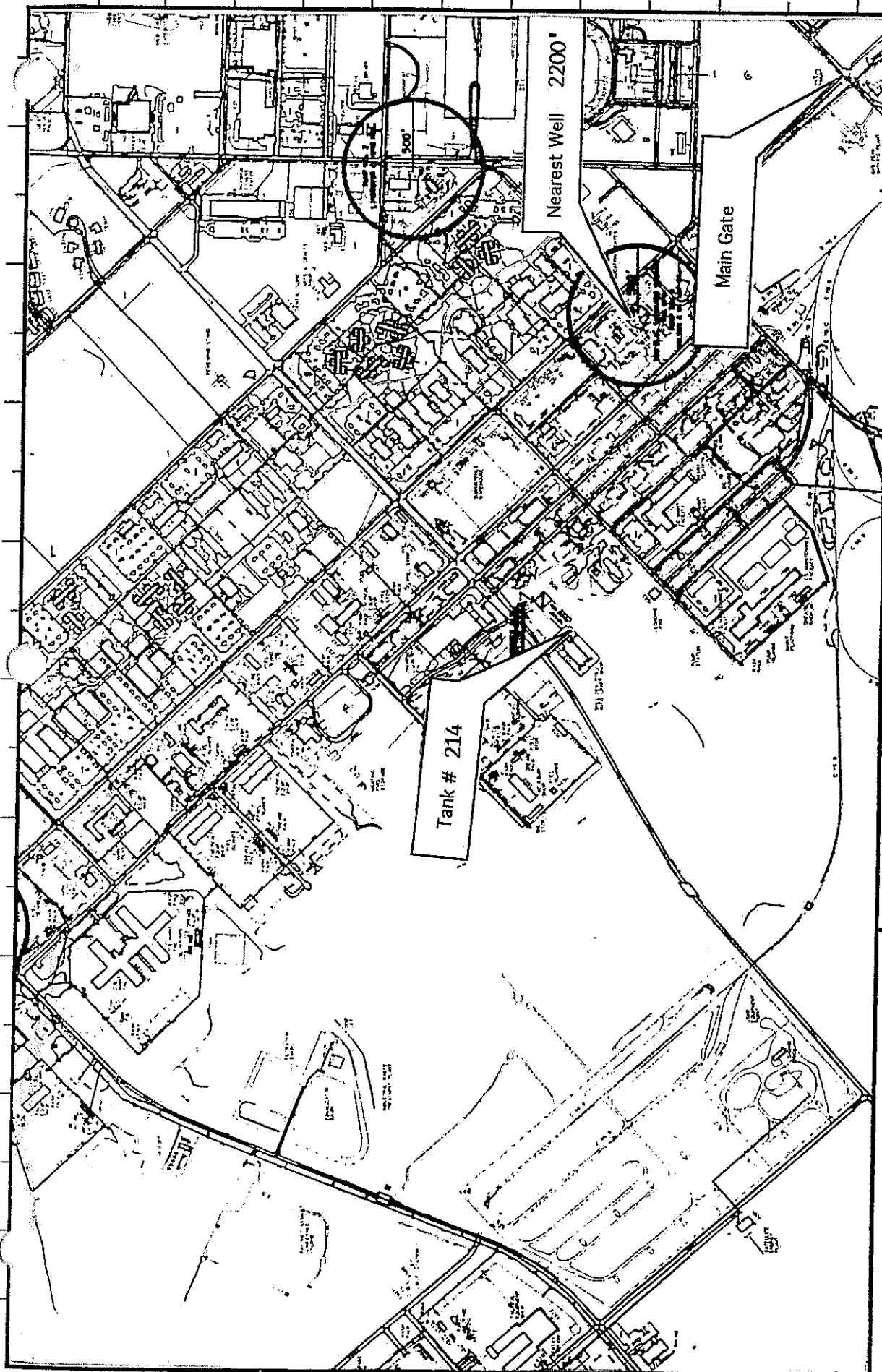
TRANSPORTER

FACILITY

Y

TAB 10

FORT STEWART AREA MAP



LEGEND/REF. DRWG'S

Base map of Fort Stewart.

ANDERSON COLUMBIA

ENVIRONMENTAL, INC.
P.O. BOX 1386 LAKE CITY, FLORIDA 32056 (904) 755-1196

DR. AJR CH'D SRC DR. APP. DFB

ENGR. ENGR'G DEPT.

DATE 9 Oct 96 SCALE 1" = 1000'

Area Map for Tank # 214

Fort Stewart

Hinesville, Georgia

DRAWING NO.: FIGURE 1