

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 Parkeay, 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: _____

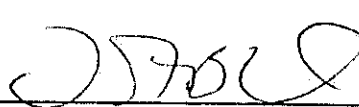
2. UST System Site Location:

Facility Name: Ft. Stewart, GA FAC 4502
Street Address: FAC 4502
Ft. Stewart GA 31314-5000
(city) (state) (zip code)
Facility ID# 9-089060

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:  Date: 11/6/96

Closure for

(1 of 3)

August 1995

4. Site-specific Hydrogeology:

Depth to Groundwater <10' 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: 6-Aug-96
- Tank Information:

<u>Tank #</u>	<u>Tank Size (gallons)</u>	<u>Tank Contents</u>
216	1000	Waste Oil

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

- Attach Amended Notification Form 7530-1
- Describe Soil Sampling Procedures (and groundwater, if encountered):

REFER TO TAB 6

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 No release

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)
_____ 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 216 being uncovered.



Photo 2. Tank 216 after removal from the tank pit.



Photo 3. Photograph of a fresh concrete slab being finished over the tank pit.

TAB 5

SITE MAPS

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

CLOSURE REPORT

WASTE OIL TANK
BUILDING 4502, TANK 216
FACILITY ID NUMBER: 9-089060
FT. STEWART, GEORGIA

PREPARED BY:

ANDERSON COLUMBIA ENVIRONMENTAL, INC.

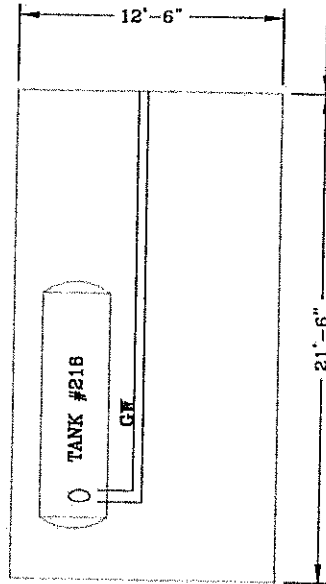
NOVEMBER 1996

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

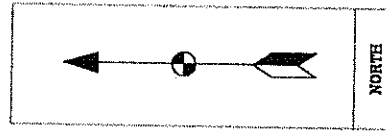
Instrument: _____ Serial #: _____
 Source: _____ Temp: _____
 PID Correlation: 50 ppm

[illegible]

BAY #1



4'-6" TO TOP OF TANK



LEGEND, REF. DRWG.'S

TANK #1 1000 GAL. WASTE OIL
(DOUBLE WALL)

TANK DIMENSIONS: 5'-5" DIAMETER
15' LENGTH

ANDERSON COLUMBIA
ENVIRONMENTAL INC.
P.O. BOX 1385 LAKE CITY, FLORIDA 32056 (804) 755-1196

DR. N.A.V. CH'D DR. APP.
ENGR. ENGR.'S DEPT.
DATE 9-30-96 SCALE N.T.S.

JOB #8101 FT. STEWART, GA

LOCATION: 4502

TANK #21B

TAB 6

EPA FORM 7530-1
&
FIELD ASSESSMENT METHODS

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part I: Facility Data

state use only

FACILITY ID NUMBER: 9-089060

OWNER'S ID: 197

INITIAL DATE RECEIVED: 12/18/92

DATE AMENDED LAST: _____

NOTIFICATION TYPE: ☐ New ☒ Amended ☒ Closure

OWNERSHIP OF TANK (S):

NUMBER OF TANK (S): 6

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 4502
Street Address : FAC 4502
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	9-089060	9-089060	9-089060	9-089060	9-089060
TANK ID	216	217	218	219	220
Status of Tank					
Currently in Use	☒		☒	☒	
Temp. Out of Use					
Perm. Out of Use	☒	☒	☒	☒	☒
Date of Installation	1-Jan-85	1-Jan-85	1-Jan-85	1-Jan-85	1-Jan-85
Age	11	11	11	11	11
Est. Total Capacity	1000	1000	1000	1000	5000
MATERIAL OF CONSTRUCTION					
Asphalt or Bare Steel					
Cath. Protected Steel					
Epoxy Coated Steel					
Composite					
Fiberglass Reinf. Plas.	☒	☒	☒	☒	☒
Lined Interior					
Double Walled	☒	☒	☒	☒	☒
Poly. Tank Jacket					
Concrete					
Excavation Liner					
Unknown					
Other, Explanation					
Date Tank Repaired					
PIPING MATERIAL					
Bare Steel					
Galvanized Steel	☒	☒	☒	☒	☒
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	☒	☒	☒	☒	☒
Propane					
Empty					
Other, Explanation					

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089060	9-089060	9-089060	9-089060	9-089060					
TANK ID	216	217	218	219	220					
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	8-1-96		8/1/94		4-95		4-95		Aug-94	
Est. Date Closed	8-6-96									
Removed from Ground	X		2-21-96		6-12-95		6-12-95		4-19-95	
Closed in Ground										
Filled with Iner. Mat.										
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 216
Building Number 4502

<i>Method</i> Sample ID <i>unit</i>	9073 TRPH ppm	418.1 TPH ppm	8020A BTEX ppb	8270B Semi-Volatile Organics ppb
TK216-GW		bdl	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 1000 feet from a withdrawal point. Comparisons with Table A (which follows) reveals that the site is clean with respect to BTEX, TPH and PAH constituents.

Complete Data Package Follows

Table A

Petroleum Constituents and Soil Threshold Levels^a

At 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^d				
Benzene ^e	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 ^d	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

- Based on worst-case assumptions for one-dimensional vadose zone and groundwater contaminant fate and transport models.
- Based on an assumed distance of 0.5 feet between contaminated soils and the water table.
- 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

Other 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.

TRANSMITTAL OF SAD LABORATORY REPORT(S)

TO: Commander, Savannah District
US Army Corps of Engineers
ATTN: CESAS-PM-H
Mr. Brent Rose
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

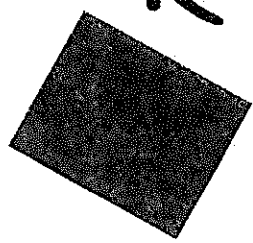
1. Enclosed is our report of
forms for samples collected or

2. If you have any question
or me at 770-919-3990.

test results and chain of custody
996 from Ft. Stewart.

Call Mr. Blaise Willis at 770-919-5295

7K216



SUBMITTED BY:

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

SIGNATURE

DATE:

6 Sep 1996

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

District - SAVANNAH FT. STEWART ARMY AF
Date Received - 96/08/09 Requisition - PMS-96-109
Date Reported - 96/08/28 07:24:56 Work Order - 7996 Job Number - 4068

Lab #	Field ID	Date Sampled	Time Sampled
29737	TK238-S1	96/08/05	13:25

Test Performed	Result	Units	Tested By	Test Date
TOTAL SOLIDS, % OF WET	90.00	%	ASI	96/08/13
AROMATIC VOLATILE ORGANICS	*		ASI	96/08/16
SEMIVOLATILE ORGANICS GC/MS	*		ASI	96/08/18
TRPH	< 11.0	MG/KG	ASI	96/08/14

*NOTE: See Attached

Sampled by District Personnel

Checked by: TS

Signed by:

Blaise Willis
Blaise Willis
Chemist

Set 1 of 3

Lab # Field ID

738 TK216-GW

Date Sampled Time Sampled

96/08/05 15:30

Test Performed

AROMATIC VOLATILE ORGANICS
SEMIVOLATILE ORGANICS GC/MS

Result	Units	Tested By	Test Date
-----	-----	-----	-----
*		ASI	96/08/15
*		ASI	96/08/13

*NOTE: See Attached

Sampled by District Personnel

Checked by: TS

Signed by:

Blaise Willis

Blaise Willis
Chemist

set 2 of 3

Lab # Field ID

739 TRIP BLANK

Date Sampled Time Sampled

96/08/05 00:00

Test Performed	Result	Units	Tested By	Test Date
-----	-----	-----	-----	-----
AROMATIC VOLATILE ORGANICS	*		ASI	96/08/14

*NOTE: See Attached

Sampled by District Personnel

Checked by: TJ.

Signed by:

Blaise Willis

Blaise Willis
Chemist

set 3 of 3

SADD Labs

ANDERSON COLUMBIA
ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

Page 1 of 1

② 1000 Blue Box for SMT.

Project No. 8101

Project Name F. Stewart

Sampers (Signature)

[Signature]

Sample Number

Date

Time

Grab

Comp.

Sample Location

No. of Containers

Preservative

8020

8270

418.1

Remarks:

[Signature]

[Signature]

TK238-S1

8/5/96

1325

✓

Q

3

None

✓

✓

✓

82737

Soil

TK216-AW

8/5/96

1530

✓

ad

4

✓

✓

✓

82738

Water - VOA's present

Tri-B lock

✓

—

W

2

✓

✓

✓

82739

Relinquished by:

Date / Time

Received by:

[Signature]

Relinquished by:

Date / Time

Received by:

Relinquished by:

Date / Time

Received by:

[Signature]

Relinquished by:

Date / Time

Received by:

Relinquished by:

Date / Time

Received by:

[Signature]

Relinquished by:

Date / Time

Received by:

Remarks:

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

Number of coolers 1 Returned cooler(s) to: Adm. Serv. Columbia DATE: 8/9/96
PROJECT: FT. STEWART W.O.# _____ JOB# 4068
Coolers(s) opened by (print name) Fred. G. McDaniel (sign) [Signature]

1. Did cooler come with shipping slip? 4471680883 ☒ yes ☐ no
If yes, enter Tracking Number here _____
2. Were custody seals on out side of cooler? ☒ yes ☐ no
How many? 2 Date on seal(s) 8/7/96 Name on seal(s) _____
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: 5c
7. Describe cooler packing: Bubble Bags & Bubble Wrap
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)? ☒ yes ☐ no ☐ N/A
If no, list field ID# _____

15. Numbers of days from sample date, samples received in Lab Adm. 8

16. Number of Samples: 3 Sample Type: ☒ soil ☒ water ☐ other _____

SAMPLE ANALYSIS PERFORMED BY: ASE TAT 7 days

COMMENTS: Sample Lab # 29738, LD 101 CAN BE Bld. New for Short
For M9210 Test!

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

LAB NUMBER(S): 29737-39

☒ yes ☐ no
SIGNATURE: [Signature]

ASI**ANALYTICAL SERVICES, INC.****ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS**110 TECHNOLOGY PARKWAY • NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201South Atlantic Division Laboratory
U.S. Army Corps of Engineers
611 South Cobb Drive
Marietta, GA 30060
Attn: Mr. Blaise Willis

August 22, 1996

P.O. No. DACW01-96-A-0001

SAD Lab #: 29737
Field ID: TK238-S1ASI Lab No. 75055-1
Date Received: 08/12/96
Time Received: 11:00
Sample Type: SoilDate Collected: 08/05/96
Time Collected: 13:25

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Total Solids	90	0.04	%	08/13/96	0950	AB/	160.3
Dilution Factor	1						
Total Petroleum Hydrocarbons	BDL	11	mg/kg	08/14/96	1330	SEH	418.1M
Dilution Factor	1						
Prepared/Extracted				08/14/96	1000	SEH	

BDL - Below Detection Limit
Results reported on dry-weight basis



ANALYTICAL SERVICES, INC.

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Attn: Mr. Blaise Willis

August 22, 1996

P.O. No. DACW01-96-A-0001

SAD Lab #: 29737
Field ID: TK238-S1

ASI Lab No. 75055-1
Date Received: 08/12/96
Time Received: 11:00
Sample Type: Soil

Date Collected: 08/05/96
Time Collected: 13:25

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
BTEX (EPA 8020) - Georgia UST							8020
Dilution Factor	1						
Benzene	BDL	6	ug/kg	08/16/96	1730	BDL	8020
Ethylbenzene	BDL	6	ug/kg	08/16/96	1730	BDL	8020
Toluene	BDL	6	ug/kg	08/16/96	1730	BDL	8020
Xylenes	BDL	6	ug/kg	08/16/96	1730	BDL	8020
Total BTEX	BDL	6	ug/kg	08/16/96	1730	BDL	8020

BDL - Below Detection Limit
Results reported on dry-weight basis



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August 22, 1996

P.O. No. DACW01-96-A-0001

SAD Lab #: 29737
Field ID: TK238-S1

ASI Lab No. 75055-1
Date Received: 08/12/96
Time Received: 11:00
Sample Type: Soil

Date Collected: 08/05/96
Time Collected: 13:25

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Acid Extractable Organics (EPA 8270)							8270
Dilution Factor	1						
Prepared/Extracted				08/14/96	1400	JQZ	
4-Chloro-3-methylphenol	BDL	370	ug/kg	08/18/96	1554	DMB	8270
2-Chlorophenol	BDL	370	ug/kg	08/18/96	1554	DMB	8270
2,4-Dichlorophenol	BDL	370	ug/kg	08/18/96	1554	DMB	8270
2,4-Dimethylphenol	BDL	370	ug/kg	08/18/96	1554	DMB	8270
4,6-Dinitro-2-methylphenol	BDL	1900	ug/kg	08/18/96	1554	DMB	8270
2,4-Dinitrophenol	BDL	1900	ug/kg	08/18/96	1554	DMB	8270
2-Methylphenol	BDL	370	ug/kg	08/18/96	1554	DMB	8270
4-Methylphenol	BDL	370	ug/kg	08/18/96	1554	DMB	8270
2-Nitrophenol	BDL	1900	ug/kg	08/18/96	1554	DMB	8270
4-Nitrophenol	BDL	1900	ug/kg	08/18/96	1554	DMB	8270
Pentachlorophenol	BDL	740	ug/kg	08/18/96	1554	DMB	8270
Phenol	BDL	370	ug/kg	08/18/96	1554	DMB	8270
2,4,5-Trichlorophenol	BDL	370	ug/kg	08/18/96	1554	DMB	8270
2,4,6-Trichlorophenol	BDL	370	ug/kg	08/18/96	1554	DMB	8270

BDL - Below Detection Limit

Results reported on dry-weight basis



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August 22, 1996

P.O. No. DACW01-96-A-0001

SAD Lab #: 29737
Field ID: TK238-S1

ASI Lab No. 75055-1
Date Received: 08/12/96
Time Received: 11:00
Sample Type: Soil

Date Collected: 08/05/96
Time Collected: 13:25

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Base/Neutral Extractable Organics (EPA 8270)							8270
Dilution Factor	1						
Prepared/Extracted				08/14/96	1400	JQZ	
Acenaphthene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Acenaphthylene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Anthracene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Benzoic Acid	BDL	1900	ug/kg	08/18/96	1554	DMB	8270
Benzo(a)anthracene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Benzo(b)fluoranthene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Benzo(k)fluoranthene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Benzo(ghi)perylene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Benzo(a)pyrene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Benzyl Alcohol	BDL	740	ug/kg	08/18/96	1554	DMB	8270
Bis(2-chloroethoxy)methane	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Bis(2-chloroethyl)ether	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Bis(2-chloroisopropyl)ether	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Bis(2-ethylhexyl)phthalate	BDL	370	ug/kg	08/18/96	1554	DMB	8270
4-Bromophenyl phenyl ether	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Benzyl butyl phthalate	BDL	370	ug/kg	08/18/96	1554	DMB	8270
4-Chloroaniline	BDL	740	ug/kg	08/18/96	1554	DMB	8270
2-Chloronaphthalene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
4-Chlorophenyl phenyl ether	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Chrysene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Dibenzo(a,h)anthracene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Dibenzofuran	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Di-n-butylphthalate	BDL	370	ug/kg	08/18/96	1554	DMB	8270
1,3-Dichlorobenzene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
1,4-Dichlorobenzene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
1,2-Dichlorobenzene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
3,3'-Dichlorobenzidine	BDL	740	ug/kg	08/18/96	1554	DMB	8270

BDL - Below Detection Limit
Results reported on dry-weight basis



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August 22, 1996

P.O. No. DACW01-96-A-0001

SAD Lab #: 29737
Field ID: TK238-S1

ASI Lab No. 75055-1
Date Received: 08/12/96
Time Received: 11:00
Sample Type: Soil

Date Collected: 08/05/96
Time Collected: 13:25

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Base/Neutral Extractable Organics (EPA 8270)							
Diethylphthalate	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Dimethylphthalate	BDL	370	ug/kg	08/18/96	1554	DMB	8270
2,4-Dinitrotoluene	BDL	740	ug/kg	08/18/96	1554	DMB	8270
2,6-Dinitrotoluene	BDL	740	ug/kg	08/18/96	1554	DMB	8270
Di-n-octylphthalate	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Fluoranthene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Fluorene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Hexachlorobenzene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Hexachlorobutadiene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Hexachlorocyclopentadiene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Hexachloroethane	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Indeno(1,2,3-cd)pyrene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Isophorone	BDL	370	ug/kg	08/18/96	1554	DMB	8270
2-Methylnaphthalene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Naphthalene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
2-Nitroaniline	BDL	1900	ug/kg	08/18/96	1554	DMB	8270
3-Nitroaniline	BDL	1900	ug/kg	08/18/96	1554	DMB	8270
4-Nitroaniline	BDL	1900	ug/kg	08/18/96	1554	DMB	8270
Nitrobenzene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
N-Nitrosodimethylamine	BDL	370	ug/kg	08/18/96	1554	DMB	8270
N-Nitrosodiphenylamine	BDL	370	ug/kg	08/18/96	1554	DMB	8270
N-Nitrosodi-n-propylamine	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Phenanthrene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
Pyrene	BDL	370	ug/kg	08/18/96	1554	DMB	8270
1,2,4-Trichlorobenzene	BDL	370	ug/kg	08/18/96	1554	DMB	8270

Respectfully Submitted,

Project Manager

BDL - Below Detection Limit
Results reported on dry-weight basis



ANALYTICAL SERVICES, INC.

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South Atlantic Division Laboratory
U.S. Army Corps of Engineers
611 South Cobb Drive
Marietta, GA 30060
Attn: Mr. Blaise Willis

August 22, 1996

P.O. No. DACW01-96-A-0001

SAD Lab #: 29738
Field ID: TK216-GW

ASI Lab No. 75055-2
Date Received: 08/12/96
Time Received: 11:00
Sample Type: Groundwater

Date Collected: 08/05/96
Time Collected: 15:30

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
BTEX (EPA 8020) - Georgia UST							8020
Dilution Factor	1						
Benzene	BDL	2	ug/l	08/15/96	0125	BDL	8020
Ethylbenzene	BDL	4	ug/l	08/15/96	0125	BDL	8020
Toluene	BDL	2	ug/l	08/15/96	0125	BDL	8020
Xylenes	BDL	5	ug/l	08/15/96	0125	BDL	8020
Total BTEX	BDL	2	ug/l	08/15/96	0125	BDL	8020

BDL - Below Detection Limit



ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS

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August 22, 1996

P.O. No. DACW01-96-A-0001

SAD Lab #: 29738
Field ID: TK216-GW

ASI Lab No. 75055-2
Date Received: 08/12/96
Time Received: 11:00
Sample Type: Groundwater

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Acid Extractable Organics (EPA 8270)							8270
Dilution Factor	1						
Prepared/Extracted				08/12/96	1430	BLM	
4-Chloro-3-methylphenol	BDL	10	ug/l	08/13/96	1705	DMB	8270
2-Chlorophenol	BDL	10	ug/l	08/13/96	1705	DMB	8270
2,4-Dichlorophenol	BDL	10	ug/l	08/13/96	1705	DMB	8270
2,4-Dimethylphenol	BDL	10	ug/l	08/13/96	1705	DMB	8270
4,6-Dinitro-2-methylphenol	BDL	50	ug/l	08/13/96	1705	DMB	8270
2,4-Dinitrophenol	BDL	50	ug/l	08/13/96	1705	DMB	8270
2-Methylphenol	BDL	10	ug/l	08/13/96	1705	DMB	8270
4-Methylphenol	BDL	10	ug/l	08/13/96	1705	DMB	8270
2-Nitrophenol	BDL	50	ug/l	08/13/96	1705	DMB	8270
4-Nitrophenol	BDL	50	ug/l	08/13/96	1705	DMB	8270
Pentachlorophenol	BDL	20	ug/l	08/13/96	1705	DMB	8270
Phenol	BDL	10	ug/l	08/13/96	1705	DMB	8270
2,4,5-Trichlorophenol	BDL	10	ug/l	08/13/96	1705	DMB	8270
2,4,6-Trichlorophenol	BDL	10	ug/l	08/13/96	1705	DMB	8270

BDL - Below Detection Limit



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August 22, 1996

P.O. No. DACW01-96-A-0001

SAD Lab #: 29738
Field ID: TK216-GW

ASI Lab No. 75055-2
Date Received: 08/12/96
Time Received: 11:00
Sample Type: Groundwater

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Base/Neutral Extractable Organics (EPA 8270)							8270
Dilution Factor	1						
Prepared/Extracted				08/12/96	1430	BLM	
Acenaphthene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Acenaphthylene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Anthracene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Benzoic Acid	BDL	50	ug/l	08/13/96	1705	DMB	8270
Benzo(a)anthracene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Benzo(b)fluoranthene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Benzo(k)fluoranthene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Benzo(ghi)perylene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Benzo(a)pyrene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Benzyl Alcohol	BDL	20	ug/l	08/13/96	1705	DMB	8270
Bis(2-chloroethoxy)methane	BDL	10	ug/l	08/13/96	1705	DMB	8270
Bis(2-chloroethyl)ether	BDL	10	ug/l	08/13/96	1705	DMB	8270
Bis(2-chloroisopropyl)ether	BDL	10	ug/l	08/13/96	1705	DMB	8270
Bis(2-ethylhexyl)phthalate	BDL	10	ug/l	08/13/96	1705	DMB	8270
4-Bromophenyl phenyl ether	BDL	10	ug/l	08/13/96	1705	DMB	8270
Benzyl butyl phthalate	BDL	10	ug/l	08/13/96	1705	DMB	8270
4-Chloroaniline	BDL	20	ug/l	08/13/96	1705	DMB	8270
2-Chloronaphthalene	BDL	10	ug/l	08/13/96	1705	DMB	8270
4-Chlorophenyl phenyl ether	BDL	10	ug/l	08/13/96	1705	DMB	8270
Chrysene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Dibenzo(a,h)anthracene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Dibenzofuran	BDL	10	ug/l	08/13/96	1705	DMB	8270
Di-n-butylphthalate	BDL	10	ug/l	08/13/96	1705	DMB	8270
1,3-Dichlorobenzene	BDL	10	ug/l	08/13/96	1705	DMB	8270
1,4-Dichlorobenzene	BDL	10	ug/l	08/13/96	1705	DMB	8270
1,2-Dichlorobenzene	BDL	10	ug/l	08/13/96	1705	DMB	8270
3,3'-Dichlorobenzidine	BDL	20	ug/l	08/13/96	1705	DMB	8270

BDL - Below Detection Limit



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August 22, 1996

P.O. No. DACW01-96-A-0001

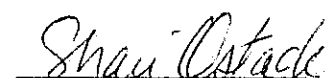
SAD Lab #: 29738
Field ID: TK216-GW

ASI Lab No. 75055-2
Date Received: 08/12/96
Time Received: 11:00
Sample Type: Groundwater

Date Collected: 08/05/96
Time Collected: 15:30

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Base/Neutral Extractable Organics (EPA 8270)							
Diethylphthalate	BDL	10	ug/l	08/13/96	1705	DMB	8270
Dimethylphthalate	BDL	10	ug/l	08/13/96	1705	DMB	8270
2,4-Dinitrotoluene	BDL	20	ug/l	08/13/96	1705	DMB	8270
2,6-Dinitrotoluene	BDL	20	ug/l	08/13/96	1705	DMB	8270
Di-n-octylphthalate	BDL	10	ug/l	08/13/96	1705	DMB	8270
Fluoranthene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Fluorene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Hexachlorobenzene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Hexachlorobutadiene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Hexachlorocyclopentadiene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Hexachloroethane	BDL	2	ug/l	08/13/96	1705	DMB	8270
Indeno(1,2,3-cd)pyrene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Isophorone	BDL	10	ug/l	08/13/96	1705	DMB	8270
2-Methylnaphthalene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Naphthalene	BDL	10	ug/l	08/13/96	1705	DMB	8270
2-Nitroaniline	BDL	50	ug/l	08/13/96	1705	DMB	8270
3-Nitroaniline	BDL	50	ug/l	08/13/96	1705	DMB	8270
4-Nitroaniline	BDL	50	ug/l	08/13/96	1705	DMB	8270
Nitrobenzene	BDL	10	ug/l	08/13/96	1705	DMB	8270
N-Nitrosodimethylamine	BDL	10	ug/l	08/13/96	1705	DMB	8270
N-Nitrosodiphenylamine	BDL	10	ug/l	08/13/96	1705	DMB	8270
N-Nitrosodi-n-propylamine	BDL	10	ug/l	08/13/96	1705	DMB	8270
Phenanthrene	BDL	10	ug/l	08/13/96	1705	DMB	8270
Pyrene	BDL	10	ug/l	08/13/96	1705	DMB	8270
1,2,4-Trichlorobenzene	BDL	10	ug/l	08/13/96	1705	DMB	8270

Respectfully Submitted,


Project Manager

BDL - Below Detection Limit

ASI**ANALYTICAL SERVICES, INC.**

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS

110 TECHNOLOGY PARKWAY • NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201South Atlantic Division Laboratory
U.S. Army Corps of Engineers
611 South Cobb Drive
Marietta, GA 30060
Attn: Mr. Blaise Willis

August 22, 1996

P.O. No. DACW01-96-A-0001

SAD Lab #: 29739
Field ID: Trip Blank

Date Collected: 08/05/96

ASI Lab No. 75055-3
Date Received: 08/12/96
Time Received: 11:00
Sample Type: Water

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
BTEX (EPA 8020) - Georgia UST							8020
Dilution Factor	1						
Benzene	BDL	2	ug/l	08/14/96	1915	BDL	8020
Ethylbenzene	BDL	4	ug/l	08/14/96	1915	BDL	8020
Toluene	BDL	2	ug/l	08/14/96	1915	BDL	8020
Xylenes	BDL	5	ug/l	08/14/96	1915	BDL	8020
Total BTEX	BDL	2	ug/l	08/14/96	1915	BDL	8020

Respectfully Submitted,



Project Manager

BDL - Below Detection Limit

Analytical Services Inc. Batch QC
For Report Number :75055
Base Neutrals / Acids

Matrix : Aqueous

Batch # 23565

Method : EPA 8270

Lab Control Information Analyte	LC %Rec	LCD %Rec	LC RPD	%Recovery Range	RPD Range
Phenol	30	33	9	12 - 89	0 - 42
2-Chlorophenol	70	69	1	27 - 123	0 - 40
1,4-Dichlorobenzene	63	62	2	36 - 97	0 - 28
N-Nitrosodipropylamine	83	82	1	41 - 116	0 - 38
1,2,4-Trichlorobenzene	72	71	2	44 - 142	0 - 28
4-Chloro-3-methylphenol	88	90	2	23 - 97	0 - 42
Acenaphthene	79	80	1	46 - 118	0 - 31
2,4-Dinitrotoluene	75	75	0	24 - 96	0 - 38
4-Nitrophenol	21	21	1	10 - 80	0 - 50
Pentachlorophenol	54	49	9	9 - 103	0 - 50
Pyrene	104	107	2	26 - 127	0 - 31

Matrix Spike Information Analyte	MS %Rec	MSD %Rec	MS RPD	%Recovery Range	RPD Range
Phenol	30	32	7	12 - 89	0 - 42
2-Chlorophenol	76	79	4	27 - 123	0 - 40
1,4-Dichlorobenzene	70	68	3	36 - 97	0 - 28
N-Nitrosodipropylamine	73	73	1	41 - 116	0 - 38
1,2,4-Trichlorobenzene	79	76	4	44 - 142	0 - 28
4-Chloro-3-methylphenol	67	71	6	23 - 97	0 - 42
Acenaphthene	81	79	2	46 - 118	0 - 31
2,4-Dinitrotoluene	77	74	4	24 - 96	0 - 38
4-Nitrophenol	22	23	5	10 - 80	0 - 50
Pentachlorophenol	64	71	11	9 - 103	0 - 50
Pyrene	99	105	6	26 - 127	0 - 31

Batch # 23565

% Recovery Objectives

S1	2-Fluorophenol	21 - 100
S2	Phenol-d5	10 - 94
S3	Nitrobenzene-d5	35 - 114
S4	2-Fluorobiphenyl	43 - 116
S5	2,4,6-Tribromophenol	10 - 123
S6	Terphenyl-d14	33 - 141

Sample	File	S1	S2	S3	S4	S5	S6
23565BLK	B3545	49	35	84	83	78	81
23565LCS	B3546	48	33	84	83	87	88
23565LCSD	B3547	48	35	79	80	83	87
74578-2	B3548			63	65		48
^^Note: PAH ONLY							
74578-4	B3549			61	61		51
^^Note: PAH ONLY							
74666-2	B3593	26	17	54	80	71	74
74666-2MS	B3594	50	36	64	89	104	93
74666-2MSD	B3595	53	38	62	87	110	94
74824-5	B3665	37	26	58	84	94	66
74824-10	B3666	27	20	60	84	80	54
74824-11	B3667	5	2	44	53	30	14
^^Note: RE-EX: LOW SURR. RECOVERIES							
74824-17	B3668	32	23	52	63	47	19
74968-3	B3675	25	22	52	67	55	19
75004-4	B3701	22	12	48	44	48	16
75004-4D	B3703	15	11	36	39	39	14
^^Note: 1:10 DILUTION							
75000-2	B3702			21	31		16
^^Note: PAH ONLY/NO SAMPLE FOR RE							
74824-11RR	B3698						
^^Note: NO SUR.ADDED, SP. ADDED INSTEAD							
75038	B3710	1	12	37	44	41	16
^^Note: MATRIX EFFECT, CONF'D IN 24013							
75009-3	B3707	14	11	37	43	43	18
75037-6	B3782			44	68		34
^^Note: PAH ONLY							

Analytical Services Inc. Batch QC

Surrogate Recovery

Base Neutrals / Acids

Matrix : Aqueous

Batch # 23565

Method : EPA 8270

% Recovery Objectives

S1	2-Fluorophenol	21 - 100
S2	Phenol-d5	10 - 94
S3	Nitrobenzene-d5	35 - 114
S4	2-Fluorobiphenyl	43 - 116
S5	2,4,6-Tribromophenol	10 - 123
S6	Terphenyl-d14	33 - 141

Sample	File	S1	S2	S3	S4	S5	S6
75055-2	B3783	12	9	6	34	12	11

Sample Batch Information
Base Neutrals / Acids Method : EPA 8270

Sample ID	Preparation			Preparation Notes	Analysis			Inst #
	Date	Time	By		Date	Time	By	
74578-2	07/25/96	1000	MO	BLM PAH	07/25/96	1446	DMB	5971
74578-4	07/25/96	1000	MO	BLM PAH	07/25/96	1524	DMB	5971
23565LCS	07/25/96	1000	MO	BLM	07/25/96	1253	DMB	5971
23565LCSD	07/25/96	1000	MO	BLM	07/25/96	1408	DMB	5971
23565BLK	07/25/96	1000	MO	BLM	07/25/96	1253	DMB	5971
74666-2	07/31/96	0900	BLM	APP 9	07/31/96	1904	DMB	5971
74666-2MS	07/31/96	0900	BLM	APP 9	07/31/96	1941	DMB	5971
74666-2MSD	07/31/96	0900	BLM	APP 9	07/31/96	2019	DMB	5971
74824-17	08/06/96	0800	BLM		08/08/96	1224	TAS	5971
74824-11	08/06/96	0800	BLM		08/08/96	1146	TAS	5971
74824-10	08/06/96	0800	BLM		08/08/96	1109	TAS	5971
74824-5	08/06/96	0800	BLM		08/08/96	1032	TAS	5971
74968-3	08/08/96	1030	MO		08/08/96	1605	TAS	5971
74824-11RR	08/08/96	1230	BLM		08/09/96	1147	TAS	5971
75004-4	08/09/96	0930	MO		08/09/96	1340	TAS	5971
75000-2	08/09/96	0930	MO	PAH	08/09/96	1418	TAS	5971
75009-3	08/09/96	0930	MO		08/09/96	1652	TAS	5971
75004-4D	08/09/96	1445	RFA	1:10	08/09/96	1505	TAS	5971
75038	08/09/96	1730	MO		08/09/96	1845	TAS	5971
75037-6	08/12/96	1430	BLM	PAH	08/13/96	0629	DMB	5971
55-2	08/12/96	1430	BLM		08/13/96	1705	DMB	5971

Analytical Services Inc. Batch QC
 For Report Number :75055
 Base Neutrals / Acids

Matrix : Soil/Sediment

Batch # 24007

Method : EPA 8270

Lab Control Information Analyte	LC %Rec	LCD %Rec	LC RPD	%Recovery Range	RPD Range
Phenol	58	55	4	26 - 90	0 - 35
2-Chlorophenol	54	58	7	25 - 102	0 - 50
1,4-Dichlorobenzene	50	57	13	28 - 104	0 - 27
N-Nitrosodipropylamine	66	65	1	41 - 126	0 - 38
1,2,4-Trichlorobenzene	60	65	9	38 - 107	0 - 23
4-Chloro-3-methylphenol	63	61	3	26 - 103	0 - 33
Acenaphthene	67	67	0	31 - 137	0 - 19
2,4-Dinitrotoluene	71	67	5	28 - 89	0 - 47
4-Nitrophenol	80	68	16	11 - 114	0 - 50
Pentachlorophenol	69	63	8	17 - 109	0 - 47
Pyrene	78	72	8	35 - 142	0 - 36

Matrix Spike Information Analyte	MS %Rec	MSD %Rec	MS RPD	%Recovery Range	RPD Range
Phenol	66	60	10	26 - 90	0 - 35
2-Chlorophenol	67	62	9	25 - 102	0 - 50
1,4-Dichlorobenzene	63	60	5	28 - 104	0 - 27
N-Nitrosodipropylamine	74	66	10	41 - 126	0 - 38
1,2,4-Trichlorobenzene	73	69	5	38 - 107	0 - 23
4-Chloro-3-methylphenol	69	64	7	26 - 103	0 - 33
Acenaphthene	76	70	8	31 - 137	0 - 19
2,4-Dinitrotoluene	76	69	10	28 - 89	0 - 47
4-Nitrophenol	84	75	11	11 - 114	0 - 50
Pentachlorophenol	74	71	3	17 - 109	0 - 47
Pyrene	70	72	3	35 - 142	0 - 36

Analytical Services Inc. Batch QC

Surrogate Recovery

Base Neutrals / Acids

Matrix : Soil/Sediment Batch # 24007

Method : EPA 8270

% Recovery Objectives

S1	2-Fluorophenol	25 - 121
S2	Phenol-d5	24 - 113
S3	Nitrobenzene-d5	23 - 120
S4	2-Fluorobiphenyl	30 - 115
S5	2,4,6-Tribromophenol	19 - 122
S6	Terphenyl-d14	18 - 137

Sample	File	S1	S2	S3	S4	S5	S6
24007BLK	B3837	58	71	65	70	67	75
24007LCS	B3838	50	62	61	69	72	75
24007LCSD	B3839	53	58	65	68	68	65
75072-1	B3840	64	75	75	87	76	65
75072-2	B3841	58	67	68	76	71	73
75072-3	B3842	59	69	70	78	75	75
75072-3MS	B3843	60	67	68	76	76	64
75072-3MSD	B3844	58	65	69	76	73	70
75072-4	B3845	51	63	59	65	75	70
75072-5	B3846	48	61	58	64	75	71
75072-7	B3847	56	68	70	75	75	68
75072-8	B3848	45	53	54	61	64	65
75072-9	B3849	46	56	57	62	69	65
75072-10	B3850	59	69	71	79	83	81
75055-1	B3866	74	79	81	81	82	83
75047-1	B3867	78	87	81	78	88	87
75047-2	B3868	62	72	66	72	85	86
74047-3	B3869	69	77	77	77	86	91
75049-3	B3870	69	77	75	79	90	85
75048-1	B3871	75	81	78	81	86	82
75048-2	B3872	78	80	82	85	87	90
75048-3	B3873	69	77	75	76	86	89
75049-2	B3874	72	83	78	83	96	92
75049-3DUP	B3875	76	82	86	92	98	91
75072-6	B3890	54	62	53	66	90	85
75072-11D	B3891	23	14	79	80	3	62
^^Note: 1:10 DILUTION							
75066	B3895	60	69	69	71	83	72

Sample Batch Information
Base Neutrals / Acids Method : EPA 8270

Sample ID	Preparation			Preparation Notes	Analysis			Inst #
	Date	Time	By		Date	Time	By	
75072-1	08/14/96	1400	JQZ/MO		08/16/96	1504	DMB	5971
75072-10	08/14/96	1400	JQZ/MO		08/16/96	2126	DMB	5971
75072-2	08/14/96	1400	JQZ/MO		08/16/96	1542	DMB	5971
75072-3	08/14/96	1400	JQZ/MO		08/16/96	1420	DMB	5971
75072-4	08/14/96	1400	JQZ/MO		08/16/96	1815	DMB	5971
75072-5	08/14/96	1400	JQZ/MO		08/16/96	1853	DMB	5971
75072-6	08/14/96	1400	JQZ/MO		08/19/96	1813	DMB	5971
75072-7	08/14/96	1400	JQZ/MO		08/16/96	1931	DMB	5971
75072-8	08/14/96	1400	JQZ/MO		08/16/96	2009	DMB	5971
75072-9	08/14/96	1400	JQZ/MO		08/16/96	2048	DMB	5971
75055-1	08/14/96	1400	JQZ/MO		08/18/96	1554	DMB	5971
75066	08/14/96	1400	JQZ/MO		08/19/96	2122	DMB	5971
75072-3MS	08/14/96	1400	JQZ/MO		08/16/96	1659	DMB	5971
75072-3MSD	08/14/96	1400	JQZ/MO		08/16/96	1737	DMB	5971
24007BLK	08/14/96	1400	JQZ/MO		08/16/96	1310	DMB	5971
24007LCS	08/14/96	1400	JQZ/MO		08/16/96	1348	DMB	5971
24007LCSD	08/14/96	1400	JQZ/MO		08/16/96	1426	DMB	5971
75047-1	08/15/96	1330	JQZ		08/18/96	1632	DMB	5971
75047-2	08/15/96	1330	JQZ		08/18/96	1710	DMB	5971
48-1	08/15/96	1330	JQZ		08/18/96	1904	DMB	5971
48-2	08/15/96	1330	JQZ		08/18/96	1942	DMB	5971
75048-3	08/15/96	1330	JQZ		08/18/96	2020	DMB	5971
75049-2	08/15/96	1330	JQZ		08/18/96	2057	DMB	5971
75049-3	08/15/96	1330	JQZ		08/18/96	1826	DMB	5971
74047-3	08/15/96	1330	JQZ		08/18/96	1748	DMB	5971
75049-3DUP	08/15/96	1330	JQZ		08/18/96	2135	DMB	5971
75047-3	/ /				/ /			
75072-11D	/ /				08/19/96	1851	DMB	5971

Analytical Services Inc. Batch QC
For Report Number :75055
Volatile Organics

Matrix : Soil/Sediment

Batch # 24017

Method : EPA 8020

Lab Control Information Analyte	LC %Rec	LCD %Rec	LC RPD	%Recovery Range	RPD Range
Benzene	105	104	1	39 - 150	0 - 20
Toluene	105	104	1	46 - 148	0 - 20
Ethylbenzene	107	106	0	32 - 160	0 - 20
Xylenes	107	106	1	71 - 133	0 - 20

Matrix Spike Information Analyte	MS %Rec	MSD %Rec	MS RPD	%Recovery Range	RPD Range
Benzene	106	113	7	39 - 150	0 - 20
Toluene	106	113	6	46 - 148	0 - 20
Ethylbenzene	101	109	7	32 - 160	0 - 20
Xylenes	105	113	7	71 - 133	0 - 20

Method : EPA 8020

S1	Bromofluorobenzene	50 - 150
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Sample	File	S1	S2	S3	S4	S5	S6
24017BLK1	081496004R	106					
24017LCS	081496005R	101					
24017LCSD	081496006R	101					
75049-1	081496007R	106					
75049-1MS	081496008R	101					
75049-1MSD	081496009R	103					
75049-2	081496010R	106					
75055-1	081496011R	106					
75049-3	081496022R	101					
^^Note: REANALYZE AT LESSER DILUTION							
24017BLK2	081596026R	109					
75181-1	081596030R	104					
75181-2	081596031R	105					
75181-3	081596032R	105					
75181-5	081596034R	106					
75181-4	081596041R	106					
75049-3RA	081596042R	98					
^^Note: REANALYSIS AT LESSER DILUTION							
24017BLK3	081696046R	105					
75181-1RA	081696048R	106					
^^Note: REANALYSIS FOR CONFIRMATION							

Sample Batch Information
Volatile Organics Method : EPA 8020

Sample ID	Preparation			Preparation Notes	Analysis			Inst #
	Date	Time	By		Date	Time	By	
75049-1	/	/			08/16/96	1359	BDL	VGC1
75049-2	/	/			08/16/96	1637	BDL	VGC1
75049-3	/	/			08/16/96	0310	BDL	VGC1
75055-1	/	/			08/16/96	1730	BDL	VGC1
24017BLK1	/	/			08/14/96	1058	BDL	VGC1
24017LCS	/	/			08/14/96	1151	BDL	VGC1
24017LCSD	/	/			08/14/96	1244	BDL	VGC1
75049-1MS	/	/			08/14/96	1452	BDL	VGC1
75049-1MSD	/	/			08/14/96	1544	BDL	VGC1
75181-1	/	/			08/16/96	1445	BDL	VGC1
75181-2	/	/			08/16/96	1538	BDL	VGC1
75181-3	/	/			08/16/96	1631	BDL	VGC1
75181-4	/	/			08/16/96	0026	BDL	VGC1
75181-5	/	/			08/16/96	1817	BDL	VGC1
24017BLK2	/	/			08/15/96	1114	BDL	VGC1
75049-3RA	/	/			08/16/96	0119	BDL	VGC1
24017BLK3	/	/			08/16/96	1117	BDL	VGC1
75181-1RA	/	/			08/16/96	1303	BDL	VGC1
75167	/	/			/	/		

Analytical Services Inc. Batch QC
For Report Number :75055
Volatile Organics

Matrix : Aqueous

Batch # 24018

Method : EPA 8020

Lab Control Information Analyte	LC %Rec	LCD %Rec	LC RPD	%Recovery Range	RPD Range
Benzene	105	104	1	39 - 150	0 - 20
Toluene	105	104	1	46 - 148	0 - 20
Ethylbenzene	107	106	0	32 - 160	0 - 20
Xylenes	107	106	1	71 - 133	0 - 20

Matrix Spike Information Analyte	MS %Rec	MSD %Rec	MS RPD	%Recovery Range	RPD Range
Benzene	107	116	8	39 - 150	0 - 20
Toluene	111	115	4	46 - 148	0 - 20
Ethylbenzene	103	111	7	32 - 160	0 - 20
Xylenes	108	114	6	71 - 133	0 - 20

Analytical Services Inc. Batch QC
 Surrogate Recovery
 Volatile Organics

Matrix : Aqueous

Batch # 24018

Method : EPA 8020

% Recovery Objectives

		50 - 150					
		Bromofluorobenzene					
		S1					
Sample	File	S1	S2	S3	S4	S5	S6
24018BLK1	081496004R	106					
24018LCS	081496005R	101					
24018LCSD	081496006R	101					
75049-5	081496012R	107					
75055-3	081496013R	106					
75056-3	081496014R	106					
75056-1	081496015R	49					
^^Note: REANALYZE AT DILUTION/SURR							
75056-2	081496019R	57					
^^Note: REANALYZE AT DILUTION							
75055-2	081496020R	90					
^^Note: REANALYZE FOR CONFIRMATION							
75049-4	081496021R	98					
^^Note: REANALYZE AT LESSER DILUTION							
24018BLK2	081596026R	109					
75049-4RA	081596028R	104					
^^Note: REANALYSIS AT LESSER DILUTION							
75056-1RA	081596027R	79					
^^Note: REANALYSIS AT DILUTION							
75055-2RA	081596033R	105					
^^Note: REANALYSIS FOR CONFIRMATION							
75055-2MS	081596035R	98					
75055-2MSD	081596036R	101					
75181-6	081596038R	96					
^^Note: REANALYZE AT DILUTION							
75056-1RA2	081596040R	104					
^^Note: REANALYSIS AT DILUTION							
75056-2RA	081596039R	96					
^^Note: REANALYSIS AT DILUTION							
24018BLK3	081696046R	105					

Analytical Services Inc. Batch QC
Surrogate Recovery
Volatile Organics

Matrix : Aqueous

Batch # 24018

Method : EPA 8020

% Recovery Objectives

S1

Bromofluorobenzene

50 - 150

Sample

File

S1

S2

S3

S4

S5

S6

75181-6RA

081496047R

110

^^Note: REANALYSIS AT DILUTION

Sample Batch Information
Volatile Organics Method : EPA 8020

Sample ID	Preparation		Preparation Notes	Analysis			Inst #
	Date	Time By		Date	Time	By	
75049-4	/	/		08/15/96	0217	BDL	VGC1
75049-5	/	/		08/14/96	1823	BDL	VGC1
75055-2	/	/		08/15/96	0125	BDL	VGC1
75055-3	/	/		08/14/96	1915	BDL	VGC1
75056-1	/	/		08/14/96	2101	BDL	VGC1
75056-2	/	/		08/15/96	0032	BDL	VGC1
75056-3	/	/		08/14/96	2008	BDL	VGC1
24018BLK1	/	/		08/14/96	1058	BDL	VGC1
24018LCS	/	/		08/14/96	1151	BDL	VGC1
24018LCSD	/	/		08/14/96	1244	BDL	VGC1
75181-6	/	/		08/14/96	2148	BDL	VGC1
24018BLK2	/	/		08/15/96	1114	BDL	VGC1
75049-4RA	/	/		08/15/96	1300	BDL	VGC1
75056-1RA	/	/		08/14/96	1207	BDL	VGC1
75055-2RA	/	/		08/14/96	1724	BDL	VGC1
75055-2MS	/	/		08/14/96	1909	BDL	VGC1
75055-2MSD	/	/		08/14/96	2002	BDL	VGC1
75056-2RA	/	/		08/14/96	1040	BDL	VGC1
75056-1RA2	/	/		08/14/96	1133	BDL	VGC1
24018BLK3	/	/		08/16/96	1117	BDL	VGC1
31-6RA	/	/		08/16/96	1210	BDL	VGC1

Analytical Services Inc. Batch QC
For Report Number :75055

Batch General Information					
Batch Number	Analyte	Analysis Method	Matrix	Blank Result	Prep. Method
23858	TPH	EPA 418.1M	Soil	< 1.0000	
^^Note : BATCH PASSES ON LCS/LCSD DUE TO MS/MSD MATRIX EFFECT					
23946	TS	EPA 160.3	Aq/Solid	< 5.0000	

Lab Control Information								
Batch Number	Analyte	Method	LC %Rec	LCD %Rec	LC RPD	%Recovery Range	RPD Range	
23858	TPH	EPA 418.1M	82	82	0	75 - 125	0 - 50	
23946	TS	EPA 160.3	94	97	3	60 - 140	0 - 40	

Matrix Spike Information								
Batch Number	Analyte	Method	MS %Rec	MSD %Rec	MS RPD	%Recovery Range	RPD Range	
23858	TPH	EPA 418.1M	61	54	12	75 - 125	0 - 50	

Unspiked Sample Duplicate Information						
Batch Number	Analyte	Method	Sample 1 RPD	Sample 2 RPD	RPD Range	
23946	TS	EPA 160.3	18	2	0 - 40	

Sample Batch Information
Analysis : TPH

Sample ID	Tag	Preparation			Preparation	Analysis			Inst
		Date	Time	By	Notes	Date	Time	By	
74861-1		08/07/96	1230	SEH		08/07/96	1500	SEH	
74861-2		08/07/96	1230	SEH		08/07/96	1500	SEH	
74861-3		08/07/96	1230	SEH		08/07/96	1500	SEH	
23858BLK		08/07/96	1230	SEH		08/07/96	1500	SEH	
23858LCS		08/07/96	1230	SEH		08/07/96	1500	SEH	
23858LCSD		08/07/96	1230	SEH		08/07/96	1500	SEH	
74861-2MS		08/07/96	1230	SEH		08/07/96	1500	SEH	
74861-2MSD		08/07/96	1230	SEH		08/07/96	1500	SEH	
75055-1		08/14/96	1000	SEH		08/14/96	1330	SEH	

Sample Batch Information
Analysis : TS

Sample ID	Tag	Preparation		Preparation	Analysis			Inst
		Date	Time	By	Date	Time	By	
74999		/	/		08/13/96	0950	AB/ET	
23946BLK		/	/		08/13/96	0950	AB/ET	
23946LCS		/	/		08/13/96	0950	AB/ET	
23946LCSD		/	/		08/13/96	0950	AB/ET	
74999DUP		/	/		08/13/96	0950	AB/ET	
75017		/	/		08/13/96	0950	AB/ET	
75055-1		/	/		08/13/96	0950	AB/ET	
75049-1		/	/		08/13/96	0950	AB/ET	
75049-2		/	/		08/13/96	0950	AB/ET	
75049-3		/	/		08/13/96	0950	AB/ET	
75047-1		/	/		08/13/96	1345	AB/ET	
75047-2		/	/		08/13/96	1345	AB/ET	
75047-3		/	/		08/13/96	1345	AB/ET	
75048-1		/	/		08/13/96	1345	AB/ET	
75048-2		/	/		08/13/96	1345	AB/ET	
75048-3		/	/		08/13/96	1345	AB/ET	
75095-5		/	/		08/13/96	1345	AB/ET	
75095-5DUP		/	/		08/13/96	1345	AB/ET	



ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS

110 TECHNOLOGY PARKWAY • NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201

22 August, 1996

Case Narrative Report 75055

The samples were collected on 5 August, 1996, and received by ASI 10 August, 1996. Conditions for proper sample receipt were met as indicated on the chain-of-custody and cooler receipt form. The samples were logged into the LIMS as report #75055 for BTEX, BNA, and TPH as per client request. All holding times for sample preparation and analysis were met with the single exception that Total Solids for the dry-weight calculation on 75055-1 was run one day late due to the sample being received very close to the 7-day holding time.

BTEX analysis by method EPA 8020 for solid samples gave acceptable recoveries for all quality controls.

BTEX analysis by method EPA 8020 for aqueous samples gave acceptable recoveries for all quality controls. 75055-2 was reanalyzed due to a hit on Xylenes. The reanalysis did not confirm this hit, and the reanalysis was reported.

BNA analysis by method EPA 8270 for solid samples gave acceptable recoveries for all quality controls.

BNA analysis by method EPA 8270 for aqueous samples gave acceptable spike recoveries. BLK/LCS/LCSD/MS/MSD gave acceptable surrogate recoveries; however, 75055-2 showed low recoveries for five of six surrogates. Standard procedure would be to reextract 75055-2 to identify an extraction problem or a matrix effect on the surrogates. Insufficient sample was provided to allow for a reextraction. The batch passes on the quality controls, but the results being reported for 75055-2 cannot be confirmed.

TPH analysis by method EPA 418.1 gave acceptable recoveries for LCS/LCSD. MS/MSD showed low recoveries due to matrix effect.

TS analysis by method EPA 160.3 gave acceptable recoveries for all quality controls.

A handwritten signature in cursive script, reading "J E Martin".

Julia E. Martin
Quality Assurance

U.S. Army Corps of Engineers

Work Order #

Job # 4468

Chain of Custody Record

(ER 1110-1-263)

TAT

Schmidt

Proj. No.

Project Name

F12 Street

Sampler 1 (Signature)

Date

Time

Pres.

g
g
g

Site Code/Sample Number

Number of Containers

Remarks:
SAD NO.

MATHIX

8/26

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1K388-S1

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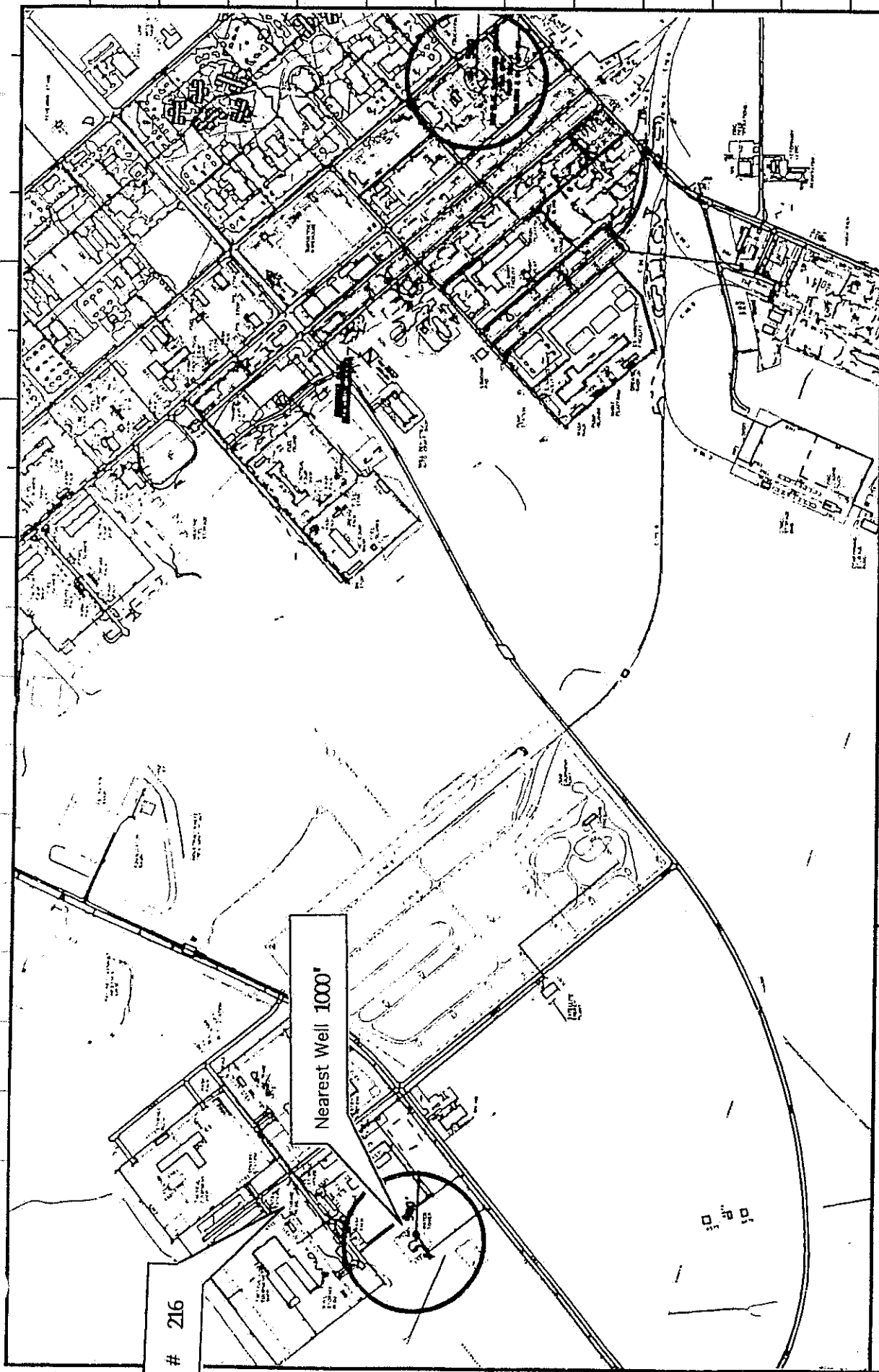
TAB 9

MANIFESTS

NO MANIFESTS ARE
APPLICABLE TO THIS CLEAN
SITE.

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 # 216

Fort Stewart

Hinesville, Georgia

DRAWING NO.: FIGURE 1