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

CLOSURE REPORT

WASTE OIL TANK
BUILDING 1513, TANK 38
FACILITY ID NUMBER: 9-089109
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, Georiga

Underground Storage Tank Removal and Closure

Table of Contents

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 1513		
Street Address:	FAC 1513		
	Ft. Stewart	GA	31314-5000
	(city)	(state)	(zip code)
Facility ID#	9-089109		

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: DFB Date: 11/7/96

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

6. Tank Removal

- Date of Removal: 9-Aug-96
- Tank Information:

Tank #	Tank Size (gallons)	Tank Contents
38	1000	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
- Date of Sampling
- Date of Analysis
- Dectection Limits
- Signed Chain of Custody
- 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)

20.56 Tons OR _____ yd^3

☐ 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

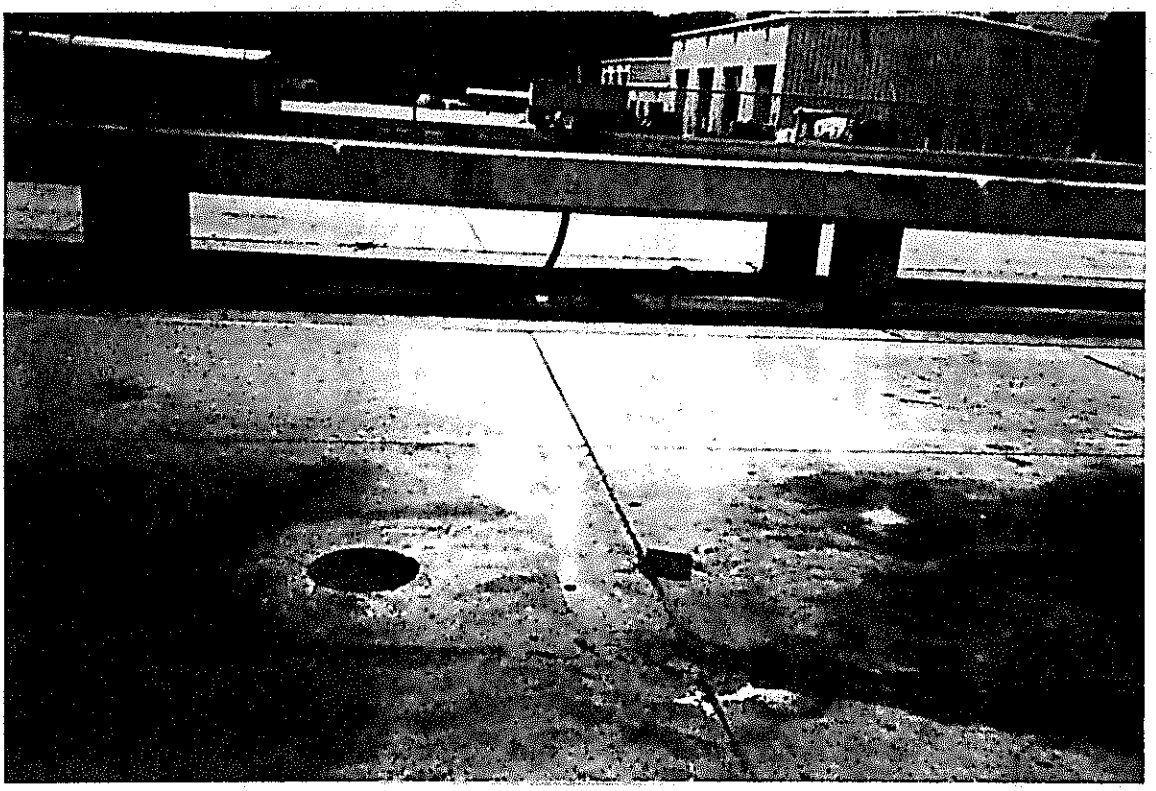


Photo 1. The Tank 38 site prior to removal.

Photo 2. The Tank 38 site after tank removal.

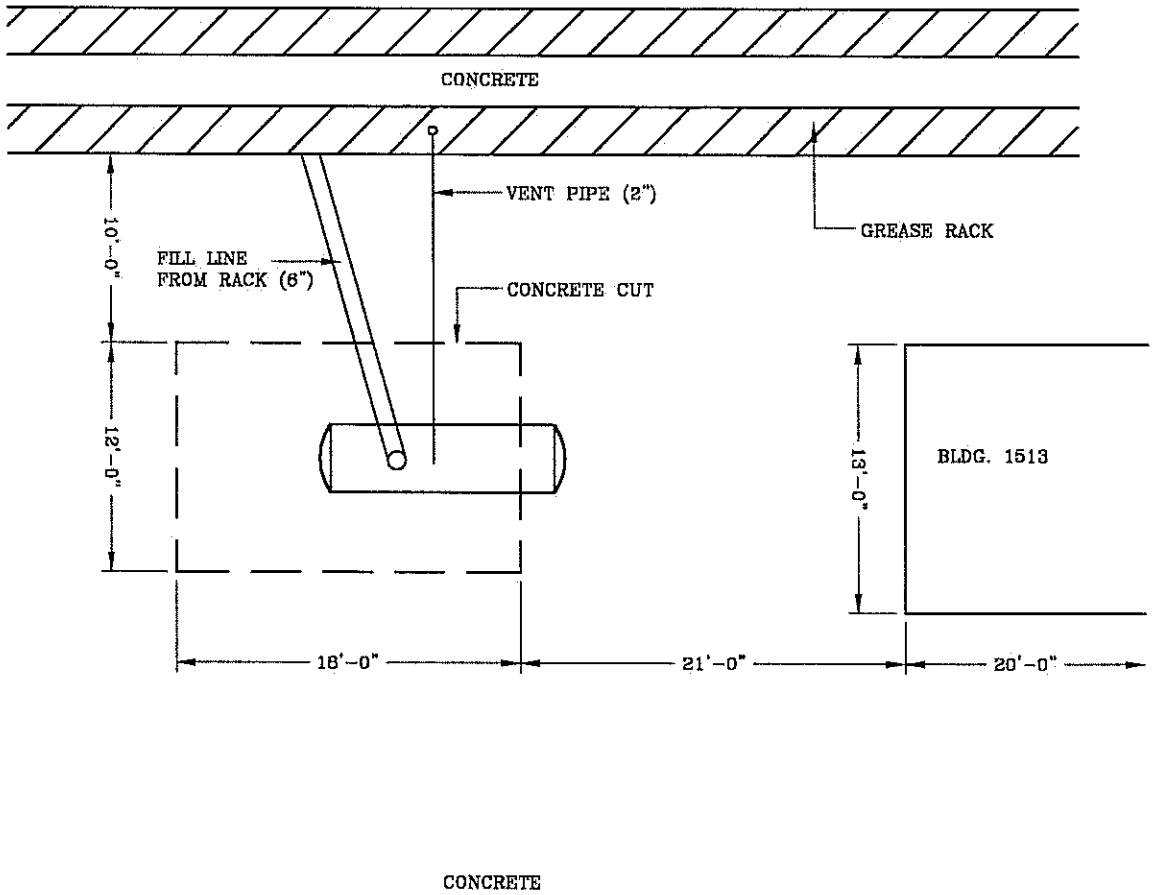
TAB 5

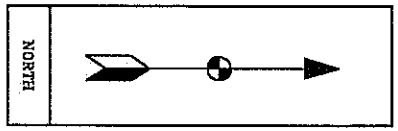
SITE MAPS

Headspace Analyses

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

Sample	Depth	PID	FID	Methane	VOA





LEGEND/REF. DRWG.'S

GW @ 10'-0"

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 10-4-96 SCALE N.T.S.

JOB #8101 FT. STEWART, GA

LOCATION: BLDG. 1513

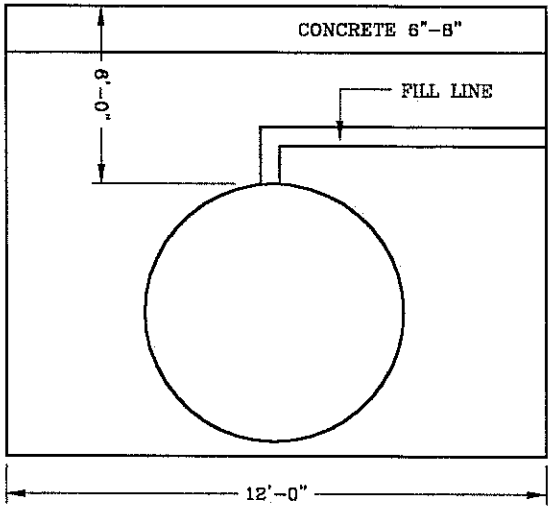
TANK #38 1000 GAL. WASTE OIL

Headspace Analyses

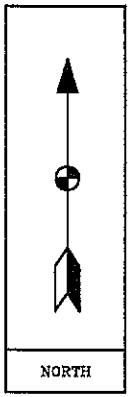
Instrument: _____ Serial #: _____
Source: _____ Temp: _____
PID Correlation: 50 ppm

Sample	Depth	PID	FID	Methane	VOA

CONCRETE



CONCRETE



LEGEND/REF. DRWG.'S

VISIBLE SHEEN ON GROUNDWATER

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 10-4-96 SCALE N.T.S.

JOB #8101 FT. STEWART, GA
LOCATION: BLDG. 1513
TANK #38 1000 GAL. WASTE OIL
CROSS SECTION

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: 9-089109

OWNER'S ID: 197

INITIAL DATE RECEIVED: 5/6/86

DATE AMENDED LAST:

NOTIFICATION TYPE: [ ] New [X] Amended [X] Closure

OWNERSHIP OF TANK (S): **NUMBER OF TANK (S):** 1

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 1513
Street Address : FAC 1513
City : FT STEWART State: GEORGIA Zip Code: 31314-5000
County : LIBERTY Latitude: Longitude:
Phone :

OWNER TYPE: [X] 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	[X] 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)

'RTIFICATION: 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	Chief, Environmental Branch
Owner Name	Title
Owner's Signature	Date

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089109				
TANK ID	38				
Status of Tank					
Currently in Use	X				
Temp. Out of Use					
Perm. Out of Use					
Date of Installation	01-01-1983				
Age	13				
Est. Total Capacity	1000				
MATERIAL OF CONSTRUCTION					
Asphalt or Bare Steel	x				
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	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				
Propane					
Empty					
Other, Explanation					

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089109									
TANK ID	38									
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	8-3-96									
Est. Date Closed	8-9-96									
Removed from Ground	X									
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 38
Building Number 1513

Method / **Sample ID** / *unit*	9073 **TRPH** ppm	418.1 **TPH** ppm	8020 **BTEX** ppb	8270 **Semi-Volatile Organics** ppb
TK-38-GW			790	345
bdl= below method detection limits				

**Fort Stewart is in an area of 'High or Average Groundwater pollution susceptibility' and this tank is approximately 3500 feet from a withdrawal point. Comparisons should be made to Table A for contaminants >500 feet from a withdrawal point.

38.43 tons of petroleum contaminated soil was removed from the Tank 38 pit.

Complete Data Package Follows

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)	
VOLATILE ORGANIC COMPOUNDS	≤500 feet to withdrawal point	>500 feet to withdrawal point	≤500 feet to withdrawal point	>500 feet to withdrawal point
Benzene[g]	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

ther 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]	
VOLATILE ORGANIC COMPOUNDS	≤500 feet to surface water body	>500 feet to surface water body	≤500 feet to surface water body	>500 feet to surface water body
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]

- sed on worst-case assumptions for one-dimensional vadose zone and groundwater contaminant fate and transport models.
- sed on an assumed distance of 0.5 feet between contaminated soils and the water table.
- sed 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 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 7 and 8 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		10 Sep 1996

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

District - SAVANNAH
Date Received - 96/08/09
Date Reported - 96/09/03 12:01:59

FT. STEWART ARMY AF
Requisition - PMS-96-109
Work Order - 7996 Job Number - 4069

Lab #	Field ID	Date Sampled	Time Sampled
29740	1824-D1	96/08/07	14:45

Test Performed	Result	Units	Tested By	Test Date
TOTAL SOLIDS, % OF WET	78.00	%	ASI	96/08/13
AROMATIC VOLATILE ORGANICS	*		ASI	96/08/16
SEMIVOLATILE ORGANICS GC/MS	*		ASI	96/08/21
LIGHT FUEL ID (8015 MOD)	*		ASI	96/08/13
HEAVY FUEL ID (8015 MOD)	*		ASI	96/08/15

*NOTE: See Attached

Sampled by District Personnel

Checked by: MS

Signed by:

Blaise Willis

Blaise Willis
Chemist

Sheet 1 of 5

Lab #	Field ID	Date Sampled	Time Sampled
41	1824-D3	96/08/07	14:00

Test Performed	Result	Units	Tested By	Test Date
TOTAL SOLIDS, % OF WET	77.00	%	ASI	96/08/13
AROMATIC VOLATILE ORGANICS	*		ASI	96/08/16
SEMIVOLATILE ORGANICS GC/MS	*		ASI	96/08/18
LIGHT FUEL ID (8015 MOD)	*		ASI	96/08/13
HEAVY FUEL ID (8015 MOD)	*		ASI	96/08/15

*NOTE: See Attached

Sampled by District Personnel

Checked by: MS

Signed by:

Blaise Willis

Blaise Willis
Chemist

Lab #	Field ID	Date Sampled	Time Sampled
42	1824-D2	96/08/07	16:30

Test Performed	Result	Units	Tested By	Test Date
TOTAL SOLIDS, % OF WET	89.00	%	ASI	96/08/13
AROMATIC VOLATILE ORGANICS	*		ASI	96/08/16
SEMIVOLATILE ORGANICS GC/MS	*		ASI	96/08/18
LIGHT FUEL ID (8015 MOD)	*		ASI	96/08/15
HEAVY FUEL ID (8015 MOD)	*		ASI	96/08/15

*NOTE: See Attached

Sampled by District Personnel

Checked by: MS

Signed by:

Blaise Willis

Blaise Willis
Chemist

Lab #	Field ID	Date Sampled	Time Sampled
43	TK38-GW	96/08/08	10:10

Test Performed	Result	Units	Tested By	Test Date
AROMATIC VOLATILE ORGANICS	*		ASI	96/08/15
SEMIVOLATILE ORGANICS GC/MS	*		ASI	96/08/14

*NOTE: See Attached

Sampled by District Personnel

Checked by: MS

Signed by:

Blaise Willis
Chemist

et 4 of 5

Lab #	Field ID	Date Sampled	Time Sampled
44	TRIP BLANK	96/08/08	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: MS

et 5 of 5

Signed by:

Blaise Willis

Blaise Willis
Chemist

SADA Labs

SW# 4065

ANDERSON COLUMBIA ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

SC Labs

Page 1 of 1

Project No.	Project Name
8101	Ft. Stewart

Samplers (Signature)

Steven R Clark

Sample Number	Date	Time	Grab	Comp.	Sample Location	No. of Containers	Preservative	6020	8270	8015 (GRO)	8015 (DRO)		Remarks:
1824-D1	8/7/96	1445	✓	S		4	none	✓	✓	✓	✓	1740	Soil Samples
1824-D3	8/7/96	1400	✓	S		4	none	✓	✓	✓	✓	41	From dispersal
1824-D2	8/7/96	1630	✓	S		4	none	✓	✓	✓	✓	42	islands
TK38-GW	8/8/96	1010	✓	W		4	see note*	✓	✓			43	*VOA's preserved w/ HCl
Trip Blank	8/8/96		✓	W		1	HCl	✓				44	Groundwater has a stain

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Steven R Clark	8/8/96 1800			8/9/96 0901	
Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Remarks:
Relinquished by:	Date / Time	Received by:			

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

DATE: 8/9/96

Number of coolers 1 Returned cooler(s) to: Anderson Columbia

PROJECT: Ft. Stewart W.O.# ____ JOB# 4069

Coolers(s) opened by (print name) [illegible] McDonald (sign) [illegible]

1. Did cooler come with shipping slip? 44 7168 0975 [✓] 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 1-2 days

16. Number of Samples: 5 Sample Type: [3] soil [2] water [ ] other ____

SAMPLE ANALYSIS PERFORMED BY: [illegible] TAT 7 days

COMMENTS: ____

17. Did you sign custody papers in the appropriate place? [✓] yes [ ] no

LAB NUMBER(S): 29740-44

SIGNATURE: [illegible signature]

ASI

ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS

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

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

August 26, 1996

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

SAD Lab #: 29740
Field ID: 18240D1

Date Collected: 08/07/96
Time Collected: 14:45

ASI Lab No. 75049-1
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Soil

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Total Solids	78	0.03	%	08/13/96	0950	AB/	160.3
Dilution Factor	1						
Gasoline Range Organics	BDL	6	mg/kg	08/13/96	2147	JKP	030/801
Dilution Factor	1						
Diesel Range Organics	BDL	13	mg/kg	08/15/96	1801	MBB	

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

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Date Collected: 08/07/96
Time Collected: 14:45

ASI Lab No. 75049-1
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Soil

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	1359	BDL	8020
Ethylbenzene	BDL	6	ug/kg	08/16/96	1359	BDL	8020
Toluene	BDL	6	ug/kg	08/16/96	1359	BDL	8020
Xylenes	BDL	6	ug/kg	08/16/96	1359	BDL	8020
Total BTEX	BDL	6	ug/kg	08/16/96	1359	BDL	8020

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

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Date Collected: 08/07/96
Time Collected: 14:45

ASI Lab No. 75049-1
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Soil

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Acid Extractable Organics (EPA 8270)							8270
Dilution Factor	1						
Prepared/Extracted				08/19/96	1700	JQZ	
4-Chloro-3-methylphenol	BDL	420	ug/kg	08/21/96	1423	DMB	8270
2-Chlorophenol	BDL	420	ug/kg	08/21/96	1423	DMB	8270
2,4-Dichlorophenol	BDL	420	ug/kg	08/21/96	1423	DMB	8270
2,4-Dimethylphenol	BDL	420	ug/kg	08/21/96	1423	DMB	8270
4,6-Dinitro-2-methylphenol	BDL	2200	ug/kg	08/21/96	1423	DMB	8270
2,4-Dinitrophenol	BDL	2200	ug/kg	08/21/96	1423	DMB	8270
2-Methylphenol	BDL	420	ug/kg	08/21/96	1423	DMB	8270
4-Methylphenol	BDL	420	ug/kg	08/21/96	1423	DMB	8270
2-Nitrophenol	BDL	2200	ug/kg	08/21/96	1423	DMB	8270
4-Nitrophenol	BDL	2200	ug/kg	08/21/96	1423	DMB	8270
Pentachlorophenol	BDL	850	ug/kg	08/21/96	1423	DMB	8270
Phenol	BDL	420	ug/kg	08/21/96	1423	DMB	8270
2,4,5-Trichlorophenol	BDL	420	ug/kg	08/21/96	1423	DMB	8270
2,4,6-Trichlorophenol	BDL	420	ug/kg	08/21/96	1423	DMB	8270

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

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Field ID: 18240D1

Date Collected: 08/07/96
Time Collected: 14:45

ASI Lab No. 75049-1
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Soil

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Base/Neutral Extractable Organics (EPA 8270)							8270
Dilution Factor	1						
Prepared/Extracted				08/19/96	1700	JQZ	
Acenaphthene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Acenaphthylene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Anthracene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Benzoic Acid	BDL	2200	ug/kg	08/21/96	1423	DMB	8270
Benzo(a)anthracene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Benzo(b)fluoranthene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Benzo(k)fluoranthene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Benzo(ghi)perylene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Benzo(a)pyrene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Benzyl Alcohol	BDL	850	ug/kg	08/21/96	1423	DMB	8270
Bis(2-chloroethoxy)methane	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Bis(2-chloroethyl)ether	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Bis(2-chloroisopropyl)ether	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Bis(2-ethylhexyl)phthalate	BDL	420	ug/kg	08/21/96	1423	DMB	8270
4-Bromophenyl phenyl ether	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Benzyl butyl phthalate	BDL	420	ug/kg	08/21/96	1423	DMB	8270
4-Chloroaniline	BDL	850	ug/kg	08/21/96	1423	DMB	8270
2-Chloronaphthalene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
4-Chlorophenyl phenyl ether	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Chrysene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Dibenzo(a,h)anthracene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Dibenzofuran	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Di-n-butylphthalate	BDL	420	ug/kg	08/21/96	1423	DMB	8270
1,3-Dichlorobenzene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
1,4-Dichlorobenzene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
1,2-Dichlorobenzene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
3,3'-Dichlorobenzidine	BDL	850	ug/kg	08/21/96	1423	DMB	8270

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

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Field ID: 18240D1

Date Collected: 08/07/96
Time Collected: 14:45

ASI Lab No. 75049-1
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Soil

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Base/Neutral Extractable Organics (EPA 8270)							
Diethylphthalate	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Dimethylphthalate	BDL	420	ug/kg	08/21/96	1423	DMB	8270
2,4-Dinitrotoluene	BDL	850	ug/kg	08/21/96	1423	DMB	8270
2,6-Dinitrotoluene	BDL	850	ug/kg	08/21/96	1423	DMB	8270
Di-n-octylphthalate	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Fluoranthene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Fluorene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Hexachlorobenzene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Hexachlorobutadiene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Hexachlorocyclopentadiene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Hexachloroethane	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Indeno(1,2,3-cd)pyrene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Isophorone	BDL	420	ug/kg	08/21/96	1423	DMB	8270
2-Methylnaphthalene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Naphthalene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
2-Nitroaniline	BDL	2200	ug/kg	08/21/96	1423	DMB	8270
3-Nitroaniline	BDL	2200	ug/kg	08/21/96	1423	DMB	8270
4-Nitroaniline	BDL	2200	ug/kg	08/21/96	1423	DMB	8270
Nitrobenzene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
N-Nitrosodimethylamine	BDL	420	ug/kg	08/21/96	1423	DMB	8270
N-Nitrosodiphenylamine	BDL	420	ug/kg	08/21/96	1423	DMB	8270
N-Nitrosodi-n-propylamine	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Phenanthrene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
Pyrene	BDL	420	ug/kg	08/21/96	1423	DMB	8270
1,2,4-Trichlorobenzene	BDL	420	ug/kg	08/21/96	1423	DMB	8270

Respectfully Submitted,

Shari Custard
Project Manager

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

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August 26, 1996

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

SAD Lab #: 29741
Field ID: 1824-D3

Date Collected: 08/07/96
Time Collected: 14:00

ASI Lab No. 75049-2
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Soil

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Total Solids	77	0.03	%	08/13/96	0950	AB/	160.3
Dilution Factor	1						
Gasoline Range Organics	BDL	6	mg/kg	08/13/96	2231	JKP	030/801
Dilution Factor	1						
Diesel Range Organics	BDL	13	mg/kg	08/15/96	1837	MBB	

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

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

SAD Lab #: 29741
Field ID: 1824-D3

Date Collected: 08/07/96
Time Collected: 14:00

ASI Lab No. 75049-2
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Soil

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	1637	BDL	8020
Ethylbenzene	BDL	6	ug/kg	08/16/96	1637	BDL	8020
Toluene	BDL	6	ug/kg	08/16/96	1637	BDL	8020
Xylenes	BDL	6	ug/kg	08/16/96	1637	BDL	8020
Total BTEX	BDL	6	ug/kg	08/16/96	1637	BDL	8020

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

ASI

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

SAD Lab #: 29741
Field ID: 1824-D3

Date Collected: 08/07/96
Time Collected: 14:00

ASI Lab No. 75049-2
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Soil

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Acid Extractable Organics (EPA 8270)							8270
Dilution Factor	1						
Prepared/Extracted				08/15/96	1330	JQZ	
4-Chloro-3-methylphenol	BDL	430	ug/kg	08/18/96	2057	DMB	8270
2-Chlorophenol	BDL	430	ug/kg	08/18/96	2057	DMB	8270
2,4-Dichlorophenol	BDL	430	ug/kg	08/18/96	2057	DMB	8270
2,4-Dimethylphenol	BDL	430	ug/kg	08/18/96	2057	DMB	8270
4,6-Dinitro-2-methylphenol	BDL	2200	ug/kg	08/18/96	2057	DMB	8270
2,4-Dinitrophenol	BDL	2200	ug/kg	08/18/96	2057	DMB	8270
2-Methylphenol	BDL	430	ug/kg	08/18/96	2057	DMB	8270
4-Methylphenol	BDL	430	ug/kg	08/18/96	2057	DMB	8270
2-Nitrophenol	BDL	2200	ug/kg	08/18/96	2057	DMB	8270
4-Nitrophenol	BDL	2200	ug/kg	08/18/96	2057	DMB	8270
Pentachlorophenol	BDL	860	ug/kg	08/18/96	2057	DMB	8270
Phenol	BDL	430	ug/kg	08/18/96	2057	DMB	8270
2,4,5-Trichlorophenol	BDL	430	ug/kg	08/18/96	2057	DMB	8270
2,4,6-Trichlorophenol	BDL	430	ug/kg	08/18/96	2057	DMB	8270

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

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SAD Lab #: 29741
Field ID: 1824-D3

Date Collected: 08/07/96
Time Collected: 14:00

ASI Lab No. 75049-2
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Soil

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Base/Neutral Extractable Organics (EPA 8270)							8270
Dilution Factor	1						
Prepared/Extracted				08/15/96	1330	JQZ	
Acenaphthene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Acenaphthylene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Anthracene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Benzoic Acid	BDL	2200	ug/kg	08/18/96	2057	DMB	8270
Benzo(a)anthracene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Benzo(b)fluoranthene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Benzo(k)fluoranthene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Benzo(ghi)perylene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Benzo(a)pyrene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Benzyl Alcohol	BDL	860	ug/kg	08/18/96	2057	DMB	8270
Bis(2-chloroethoxy)methane	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Bis(2-chloroethyl)ether	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Bis(2-chloroisopropyl)ether	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Bis(2-ethylhexyl)phthalate	BDL	430	ug/kg	08/18/96	2057	DMB	8270
4-Bromophenyl phenyl ether	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Benzyl butyl phthalate	BDL	430	ug/kg	08/18/96	2057	DMB	8270
4-Chloroaniline	BDL	860	ug/kg	08/18/96	2057	DMB	8270
2-Chloronaphthalene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
4-Chlorophenyl phenyl ether	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Chrysene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Dibenzo(a,h)anthracene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Dibenzofuran	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Di-n-butylphthalate	BDL	430	ug/kg	08/18/96	2057	DMB	8270
1,3-Dichlorobenzene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
1,4-Dichlorobenzene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
1,2-Dichlorobenzene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
3,3'-Dichlorobenzidine	BDL	860	ug/kg	08/18/96	2057	DMB	8270

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

ASI

ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS

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

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

August 26, 1996

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

SAD Lab #: 29741
Field ID: 1824-D3

Date Collected: 08/07/96
Time Collected: 14:00

ASI Lab No. 75049-2
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Soil

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Base/Neutral Extractable Organics (EPA 8270)							
Diethylphthalate	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Dimethylphthalate	BDL	430	ug/kg	08/18/96	2057	DMB	8270
2,4-Dinitrotoluene	BDL	860	ug/kg	08/18/96	2057	DMB	8270
2,6-Dinitrotoluene	BDL	860	ug/kg	08/18/96	2057	DMB	8270
Di-n-octylphthalate	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Fluoranthene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Fluorene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Hexachlorobenzene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Hexachlorobutadiene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Hexachlorocyclopentadiene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Hexachloroethane	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Indeno(1,2,3-cd)pyrene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Isophorone	BDL	430	ug/kg	08/18/96	2057	DMB	8270
2-Methylnaphthalene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Naphthalene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
2-Nitroaniline	BDL	2200	ug/kg	08/18/96	2057	DMB	8270
3-Nitroaniline	BDL	2200	ug/kg	08/18/96	2057	DMB	8270
4-Nitroaniline	BDL	2200	ug/kg	08/18/96	2057	DMB	8270
Nitrobenzene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
N-Nitrosodimethylamine	BDL	430	ug/kg	08/18/96	2057	DMB	8270
N-Nitrosodiphenylamine	BDL	430	ug/kg	08/18/96	2057	DMB	8270
N-Nitrosodi-n-propylamine	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Phenanthrene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
Pyrene	BDL	430	ug/kg	08/18/96	2057	DMB	8270
1,2,4-Trichlorobenzene	BDL	430	ug/kg	08/18/96	2057	DMB	8270

Respectfully Submitted,

Shari Ostach
Project Manager

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

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Marietta, GA 30060
Attn: Mr. Blaise Willis

August 26, 1996

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

SAD Lab #: 29742
Field ID: 1824-D2

Date Collected: 08/07/96
Time Collected: 16:30

ASI Lab No. 75049-3
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Soil

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Total Solids	89	0.03	%	08/13/96	0950	AB/	160.3
Dilution Factor	1						
Gasoline Range Organics	14	11	mg/kg	08/15/96	1009	JKP	030/801
Dilution Factor	1						
Diesel Range Organics	BDL	11	mg/kg	08/15/96	1913	MBB	

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

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August 26, 1996

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

SAD Lab #: 29742
Field ID: 1824-D2

Date Collected: 08/07/96
Time Collected: 16:30

ASI Lab No. 75049-3
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Soil

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
BTEX (EPA 8020) - Georgia UST							8020
Dilution Factor	1						
Benzene	BDL	110	ug/kg	08/16/96	0310	BDL	8020
Ethylbenzene	370	110	ug/kg	08/16/96	0310	BDL	8020
Toluene	BDL	110	ug/kg	08/16/96	0310	BDL	8020
Xylenes	BDL	110	ug/kg	08/16/96	0310	BDL	8020
Total BTEX	370	110	ug/kg	08/16/96	0310	BDL	8020

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

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August 26, 1996

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

SAD Lab #: 29742
Field ID: 1824-D2

Date Collected: 08/07/96
Time Collected: 16:30

ASI Lab No. 75049-3
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Soil

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Acid Extractable Organics (EPA 8270)							8270
Dilution Factor	1						
Prepared/Extracted				08/15/96	1330	JQZ	
4-Chloro-3-methylphenol	BDL	370	ug/kg	08/18/96	1826	DMB	8270
2-Chlorophenol	BDL	370	ug/kg	08/18/96	1826	DMB	8270
2,4-Dichlorophenol	BDL	370	ug/kg	08/18/96	1826	DMB	8270
2,4-Dimethylphenol	BDL	370	ug/kg	08/18/96	1826	DMB	8270
4,6-Dinitro-2-methylphenol	BDL	1900	ug/kg	08/18/96	1826	DMB	8270
2,4-Dinitrophenol	BDL	1900	ug/kg	08/18/96	1826	DMB	8270
2-Methylphenol	BDL	370	ug/kg	08/18/96	1826	DMB	8270
4-Methylphenol	BDL	370	ug/kg	08/18/96	1826	DMB	8270
2-Nitrophenol	BDL	1900	ug/kg	08/18/96	1826	DMB	8270
4-Nitrophenol	BDL	1900	ug/kg	08/18/96	1826	DMB	8270
Pentachlorophenol	BDL	740	ug/kg	08/18/96	1826	DMB	8270
Phenol	BDL	370	ug/kg	08/18/96	1826	DMB	8270
2,4,5-Trichlorophenol	BDL	370	ug/kg	08/18/96	1826	DMB	8270
2,4,6-Trichlorophenol	BDL	370	ug/kg	08/18/96	1826	DMB	8270

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

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August 26, 1996

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

SAD Lab #: 29742
Field ID: 1824-D2

Date Collected: 08/07/96
Time Collected: 16:30

ASI Lab No. 75049-3
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Soil

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Base/Neutral Extractable Organics (EPA 8270)							8270
Dilution Factor	1						
Prepared/Extracted				08/15/96	1330	JQZ	
Acenaphthene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Acenaphthylene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Anthracene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Benzoic Acid	BDL	1900	ug/kg	08/18/96	1826	DMB	8270
Benzo(a)anthracene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Benzo(b)fluoranthene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Benzo(k)fluoranthene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Benzo(ghi)perylene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Benzo(a)pyrene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Benzyl Alcohol	BDL	740	ug/kg	08/18/96	1826	DMB	8270
Bis(2-chloroethoxy)methane	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Bis(2-chloroethyl)ether	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Bis(2-chloroisopropyl)ether	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Bis(2-ethylhexyl)phthalate	BDL	370	ug/kg	08/18/96	1826	DMB	8270
4-Bromophenyl phenyl ether	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Benzyl butyl phthalate	BDL	370	ug/kg	08/18/96	1826	DMB	8270
4-Chloroaniline	BDL	740	ug/kg	08/18/96	1826	DMB	8270
2-Chloronaphthalene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
4-Chlorophenyl phenyl ether	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Chrysene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Dibenzo(a,h)anthracene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Dibenzofuran	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Di-n-butylphthalate	BDL	370	ug/kg	08/18/96	1826	DMB	8270
1,3-Dichlorobenzene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
1,4-Dichlorobenzene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
1,2-Dichlorobenzene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
3,3'-Dichlorobenzidine	BDL	740	ug/kg	08/18/96	1826	DMB	8270

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

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August 26, 1996

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

SAD Lab #: 29742
Field ID: 1824-D2

Date Collected: 08/07/96
Time Collected: 16:30

ASI Lab No. 75049-3
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Soil

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Base/Neutral Extractable Organics (EPA 8270)							
Diethylphthalate	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Dimethylphthalate	BDL	370	ug/kg	08/18/96	1826	DMB	8270
2,4-Dinitrotoluene	BDL	740	ug/kg	08/18/96	1826	DMB	8270
2,6-Dinitrotoluene	BDL	740	ug/kg	08/18/96	1826	DMB	8270
Di-n-octylphthalate	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Fluoranthene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Fluorene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Hexachlorobenzene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Hexachlorobutadiene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Hexachlorocyclopentadiene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Hexachloroethane	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Indeno(1,2,3-cd)pyrene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Isophorone	BDL	370	ug/kg	08/18/96	1826	DMB	8270
2-Methylnaphthalene	730	370	ug/kg	08/18/96	1826	DMB	8270
Naphthalene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
2-Nitroaniline	BDL	1900	ug/kg	08/18/96	1826	DMB	8270
3-Nitroaniline	BDL	1900	ug/kg	08/18/96	1826	DMB	8270
4-Nitroaniline	BDL	1910	ug/kg	08/18/96	1826	DMB	8270
Nitrobenzene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
N-Nitrosodimethylamine	BDL	370	ug/kg	08/18/96	1826	DMB	8270
N-Nitrosodiphenylamine	BDL	370	ug/kg	08/18/96	1826	DMB	8270
N-Nitrosodi-n-propylamine	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Phenanthrene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
Pyrene	BDL	370	ug/kg	08/18/96	1826	DMB	8270
1,2,4-Trichlorobenzene	BDL	370	ug/kg	08/18/96	1826	DMB	8270

Respectfully Submitted,

Shari Estack
Project Manager

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

ASI

ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS

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Attn: Mr. Blaise Willis

August 26, 1996

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

SAD Lab #: 29743
Field ID: TK38-GW

Date Collected: 08/08/96
Time Collected: 10:10

ASI Lab No. 75049-4
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Groundwater

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
BTEX (EPA 8020) - Georgia UST							8020
Dilution Factor	1						
Benzene	20	20	ug/l	08/15/96	0217	BDL	8020
Ethylbenzene	160	40	ug/l	08/15/96	0217	BDL	8020
Toluene	BDL	20	ug/l	08/15/96	0217	BDL	8020
Xylenes	610	50	ug/l	08/15/96	0217	BDL	8020
Total BTEX	790	20	ug/l	08/15/96	0217	BDL	8020

BDL - Below Detection Limit

ASI

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Attn: Mr. Blaise Willis

August 26, 1996

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

SAD Lab #: 29743
Field ID: TK38-GW

Date Collected: 08/08/96
Time Collected: 10:10

ASI Lab No. 75049-4
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Groundwater

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Acid Extractable Organics (EPA 8270)							8270
Dilution Factor	1						
Prepared/Extracted				08/13/96	0900	BLM	
4-Chloro-3-methylphenol	BDL	10	ug/l	08/14/96	1943	DMB	8270
2-Chlorophenol	BDL	10	ug/l	08/14/96	1943	DMB	8270
2,4-Dichlorophenol	BDL	10	ug/l	08/14/96	1943	DMB	8270
2,4-Dimethylphenol	BDL	10	ug/l	08/14/96	1943	DMB	8270
4,6-Dinitro-2-methylphenol	BDL	50	ug/l	08/14/96	1943	DMB	8270
2,4-Dinitrophenol	BDL	50	ug/l	08/14/96	1943	DMB	8270
2-Methylphenol	BDL	10	ug/l	08/14/96	1943	DMB	8270
4-Methylphenol	BDL	10	ug/l	08/14/96	1943	DMB	8270
2-Nitrophenol	BDL	50	ug/l	08/14/96	1943	DMB	8270
4-Nitrophenol	BDL	50	ug/l	08/14/96	1943	DMB	8270
Pentachlorophenol	BDL	20	ug/l	08/14/96	1943	DMB	8270
Phenol	BDL	10	ug/l	08/14/96	1943	DMB	8270
2,4,5-Trichlorophenol	BDL	10	ug/l	08/14/96	1943	DMB	8270
2,4,6-Trichlorophenol	BDL	10	ug/l	08/14/96	1943	DMB	8270

BDL - Below Detection Limit

ASI

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August 26, 1996

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

SAD Lab #: 29743
Field ID: TK38-GW

Date Collected: 08/08/96
Time Collected: 10:10

ASI Lab No. 75049-4
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Groundwater

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Base/Neutral Extractable Organics (EPA 8270)							8270
Dilution Factor	1						
Prepared/Extracted				08/13/96	0900	BLM	
Acenaphthene	BDL	10	ug/l	08/14/96	1943	DMB	8270
Acenaphthylene	BDL	10	ug/l	08/14/96	1943	DMB	8270
Anthracene	BDL	10	ug/l	08/14/96	1943	DMB	8270
Benzoic Acid	BDL	50	ug/l	08/14/96	1943	DMB	8270
Benzo(a)anthracene	BDL	10	ug/l	08/14/96	1943	DMB	8270
Benzo(b)fluoranthene	BDL	10	ug/l	08/14/96	1943	DMB	8270
Benzo(k)fluoranthene	BDL	10	ug/l	08/14/96	1943	DMB	8270
Benzo(ghi)perylene	BDL	10	ug/l	08/14/96	1943	DMB	8270
Benzo(a)pyrene	BDL	10	ug/l	08/14/96	1943	DMB	8270
Benzyl Alcohol	BDL	20	ug/l	08/14/96	1943	DMB	8270
Bis(2-chloroethoxy)methane	BDL	10	ug/l	08/14/96	1943	DMB	8270
Bis(2-chloroethyl)ether	BDL	10	ug/l	08/14/96	1943	DMB	8270
Bis(2-chloroisopropyl)ether	BDL	10	ug/l	08/14/96	1943	DMB	8270
Bis(2-ethylhexyl)phthalate	BDL	10	ug/l	08/14/96	1943	DMB	8270
4-Bromophenyl phenyl ether	BDL	10	ug/l	08/14/96	1943	DMB	8270
Benzyl butyl phthalate	BDL	10	ug/l	08/14/96	1943	DMB	8270
4-Chloroaniline	BDL	20	ug/l	08/14/96	1943	DMB	8270
2-Chloronaphthalene	BDL	10	ug/l	08/14/96	1943	DMB	8270
4-Chlorophenyl phenyl ether	BDL	10	ug/l	08/14/96	1943	DMB	8270
Chrysene	BDL	10	ug/l	08/14/96	1943	DMB	8270
Dibenzo(a,h)anthracene	BDL	10	ug/l	08/14/96	1943	DMB	8270
Dibenzofuran	BDL	10	ug/l	08/14/96	1943	DMB	8270
Di-n-butylphthalate	BDL	10	ug/l	08/14/96	1943	DMB	8270
1,3-Dichlorobenzene	BDL	10	ug/l	08/14/96	1943	DMB	8270
1,4-Dichlorobenzene	BDL	10	ug/l	08/14/96	1943	DMB	8270
1,2-Dichlorobenzene	BDL	10	ug/l	08/14/96	1943	DMB	8270
3,3'-Dichlorobenzidine	BDL	20	ug/l	08/14/96	1943	DMB	8270

BDL - Below Detection Limit

ASI

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August 26, 1996

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

SAD Lab #: 29743
Field ID: TK38-GW

Date Collected: 08/08/96
Time Collected: 10:10

ASI Lab No. 75049-4
Date Received: 08/10/96
Time Received: 07:30
Sample Type: Groundwater

Analyte	Result	Det Limit	Units	Date	Time	Analyst	Method
Base/Neutral Extractable Organics (EPA 8270)							
Diethylphthalate	BDL	10	ug/l	08/14/96	1943	DMB	8270
Dimethylphthalate	BDL	10	ug/l	08/14/96	1943	DMB	8270
2,4-Dinitrotoluene	BDL	20	ug/l	08/14/96	1943	DMB	8270
2,6-Dinitrotoluene	BDL	20	ug/l	08/14/96	1943	DMB	8270
Di-n-octylphthalate	BDL	10	ug/l	08/14/96	1943	DMB	8270
Fluoranthene	13	10	ug/l	08/14/96	1943	DMB	8270
Fluorene	29	10	ug/l	08/14/96	1943	DMB	8270
Hexachlorobenzene	BDL	10	ug/l	08/14/96	1943	DMB	8270
Hexachlorobutadiene	BDL	10	ug/l	08/14/96	1943	DMB	8270
Hexachlorocyclopentadiene	BDL	10	ug/l	08/14/96	1943	DMB	8270
Hexachloroethane	BDL	2	ug/l	08/14/96	1943	DMB	8270
Indeno(1,2,3-cd)pyrene	BDL	10	ug/l	08/14/96	1943	DMB	8270
Isophorone	BDL	10	ug/l	08/14/96	1943	DMB	8270
2-Methylnaphthalene	120	10	ug/l	08/14/96	1943	DMB	8270
Naphthalene	110	10	ug/l	08/14/96	1943	DMB	8270
2-Nitroaniline	BDL	50	ug/l	08/14/96	1943	DMB	8270
3-Nitroaniline	BDL	50	ug/l	08/14/96	1943	DMB	8270
4-Nitroaniline	BDL	50	ug/l	08/14/96	1943	DMB	8270
Nitrobenzene	BDL	10	ug/l	08/14/96	1943	DMB	8270
N-Nitrosodimethylamine	BDL	10	ug/l	08/14/96	1943	DMB	8270
N-Nitrosodiphenylamine	BDL	10	ug/l	08/14/96	1943	DMB	8270
N-Nitrosodi-n-propylamine	BDL	10	ug/l	08/14/96	1943	DMB	8270
Phenanthrene	52	10	ug/l	08/14/96	1943	DMB	8270
Pyrene	21	10	ug/l	08/14/96	1943	DMB	8270
1,2,4-Trichlorobenzene	BDL	10	ug/l	08/14/96	1943	DMB	8270

Respectfully Submitted,

Shari Estack
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) 734-4201

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

August 26, 1996

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

SAD Lab #: 29744
Field ID: Trip Blank

Date Collected: 08/08/96

ASI Lab No. 75049-5
Date Received: 08/10/96
Time Received: 07:30
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	1823	BDL	8020
Ethylbenzene	BDL	4	ug/l	08/14/96	1823	BDL	8020
Toluene	BDL	2	ug/l	08/14/96	1823	BDL	8020
Xylenes	BDL	5	ug/l	08/14/96	1823	BDL	8020
Total BTEX	BDL	2	ug/l	08/14/96	1823	BDL	8020

Respectfully Submitted,

Shari Ostack

Project Manager

BDL - Below Detection Limit

Analytical Services Inc. Batch QC
For Report Number :75049
Gasoline Range Organics

Matrix : Solid Batch # 23813 Method : 8015M

Lab Control Information Analyte	LC %Rec	LCD %Rec	LC RPD	%Recovery Range	RPD Range
Gasoline	98	101	3	67 - 136	0 - 50

Matrix Spike Information Analyte	MS %Rec	MSD %Rec	MS RPD	%Recovery Range	RPD Range
Gasoline	100	110	10	67 - 136	0 - 50

Analytical Services Inc. Batch QC
Surrogate Recovery
Gasoline Range Organics

Matrix : Solid Batch # 23813 Method : 8015M

% Recovery Objectives

S1	1,2-Dichloroethane-d4	70 - 121
S2	Toluene-d8	81 - 117
S3	4-Bromofluorobenzene	74 - 121
S4	Ethylbenzene-d10	79 - 115

Sample	File	S1	S2	S3	S4	S5	S6
23813BLK1A	>LT034	94	98	111	107		
^^Note: 74776-5							
23813LCS	>LT053	104	96	108	103		
23813LCSD	>LT054	98	97	109	103		
74776-3	>LT050	103	95	115	102		
23813BLK1B	>LT077	100	99	99	108		
^^Note: 74814-3							
74814-1	>LT079	95	100	104	100		
74814-2	>LT080	99	101	106	100		
74814-2MS	>LT092	93	101	96	101		
74814-2MSD	>LT093	95	101	96	99		
74776-2	>LT049	102	95	116	104		
74776-1	>LT057	84	98	111	104		
74776-4	>LT058	90	109	96	103		
23813BLK1C	>LT137	98	98	109	101		
74914-1	>LT145	90	99	103	102		
74914-3	>LT146	87	101	105	103		
74914-5	>LT147	90	102	106	104		
74914-6	>LT148	93	97	103	102		
75037-1	>LT206	100	102	107	103		
75037-2	>LT207	101	98	108	101		
75037-3	>LT208	94	105	99	103		
75037-4	>LT209	94	97	107	104		
75037-5	>LT210	93	101	109	101		
23813BLK1D	>LT204	89	97	109	101		
23813BLK1E	>LT225	90	96	108	101		
75049-1	>LT242	96	99	98	101		
75049-2	>LT243	103	102	100	103		
23813BLK1F	>LT301	100	101	106	102		
^^Note: 75144-15							
75144-2	>LT303	101	99	101	100		
75144-3	>LT304	91	98	99	100		
75049-3	>LT290	102	99	97	99		

Q.C. Information for Batch # 23813 Printed: 08/26/96 16:28:58

Sample Batch Information
Gasoline Range Organics Method : 8015M

Sample ID	Preparation Date	Time	By	Preparation Notes	Analysis Date	Time	By	Inst #
23813BLK1A	/ /				08/02/96	0821	JKP	VOA1
23813LCS	/ /				08/02/96	2300	JKP	VOA1
23813LCSD	/ /				08/02/96	2343	JKP	VOA1
74776-2	/ /				08/02/96	2009	JKP	VOA1
74776-3	/ /				08/02/96	2052	JKP	VOA1
23813BLK1B	/ /				08/05/96	1838	JKP	VOA1
74814-1	/ /				08/05/96	1959	JKP	VOA1
74814-2	/ /				08/05/96	2042	JKP	VOA1
74814-2MS	/ /				08/06/96	0515	JKP	VOA1
74814-2MSD	/ /				08/06/96	0559	JKP	VOA1
74776-1	/ /				08/03/96	0145	JKP	VOA1
74776-4	/ /				08/03/96	0226	JKP	VOA1
23813BLK1C	/ /				08/07/96	1740	JKP	VOA1
74914-1	/ /				08/07/96	2320	JKP	VOA1
74914-3	/ /				08/08/96	0003	JKP	VOA1
74914-5	/ /				08/08/96	0046	JKP	VOA1
74914-6	/ /				08/08/96	0129	JKP	VOA1
75037-1	/ /				08/12/96	1839	JKP	VOA1
75037-2	/ /				08/12/96	1922	JKP	VOA1
75037-3	/ /				08/12/96	2004	JKP	VOA1
75037-4	/ /				08/12/96	2047	JKP	VOA1
75037-5	/ /				08/12/96	2130	JKP	VOA1
23813BLK1D	/ /				08/12/96	1712	JKP	VOA1
23813BLK1E	/ /				08/13/96	0727	JKP	VOA1
75049-1	/ /				08/13/96	2147	JKP	VOA1
75049-2	/ /				08/13/96	2231	JKP	VOA1
23813BLK1F	/ /				08/15/96	1757	JKP	VOA1
75144-2	/ /				08/15/96	1920	JKP	VOA1
75144-3	/ /				08/15/96	2003	JKP	VOA1
75049-3	/ /				08/15/96	1009	JKP	VOA1

Analytical Services Inc. Batch QC
For Report Number :75049
Diesel Range Organics

Matrix : Solid Batch # 23877 Method : CAL-DHS

Lab Control Information Analyte	LC %Rec	LCD %Rec	LC RPD	%Recovery Range	RPD Range
Diesel	61	69	12	61 - 143	0 - 50

Matrix Spike Information Analyte	MS %Rec	MSD %Rec	MS RPD	%Recovery Range	RPD Range
Diesel	65	62	5	61 - 143	0 - 50

Analytical Services Inc. Batch QC
Surrogate Recovery
Diesel Range Organics

Matrix : Solid Batch # 23877 Method : CAL-DHS

% Recovery Objectives

S1	n-Nonane	29 - 100
S2	n-Pentacosane	39 - 132

Sample	File	S1	S2	S3	S4	S5	S6
23877BLK	080896037F	43	42				
23877LCS	080896038F	55	56				
23877LCSD	080896039F	61	68				
74914-1	080896040F	52	41				
74914-3	080896041F	63	46				
74914-5	080896042F	54	40				
74914-6	080896043F	56	49				
74914-3MS	080896044F	59	61				
74914-3MSD	080896045F	52	53				
74886	080896046F	94	60				
75049-1	081596003F	57	26				
75049-2	081596004F	64	34				
75049-3	081596005F	58	31				
75162-1	081596006F	56	64				
75162-2	081596007F	50	49				
75162-3	081596008F	58	52				
75162-4	081596009F	54	43				

Q.C. Information for Batch # 23877 Printed: 08/26/96 16:29:01

Sample Batch Information

Diesel Range Organics Method : CAL-DHS

Sample ID	Preparation Date	Time	By	Preparation Notes	Analysis Date	Time	By	Inst #
74914-6	08/08/96	1100	SEH		08/10/96	1414	SW	GC2
74914-5	08/08/96	1100	SEH		08/10/96	1339	SW	GC2
74914-3	08/08/96	1100	SEH		08/10/96	1305	SW	GC2
74914-1	08/08/96	1100	SEH		08/10/96	1230	SW	GC2
23877BLK	08/08/96	1100	SEH		08/09/96	1836	SW	GC2
23877LCS	08/08/96	1100	SEH		08/10/96	1633	SW	GC2
23877LCSD	08/08/96	1100	SEH		08/10/96	1122	SW	GC2
74914-3MS	08/08/96	1100	SEH		08/10/96	1449	SW	GC2
74914-3MSD	08/08/96	1100	SEH		08/10/96	1524	SW	GC2
74886	08/08/96	1100	SEH		08/10/96	1559	SW	GC2
75049-1	08/13/96	0913	SEH		08/15/96	1801	MBB	GC2
75049-2	08/13/96	0913	SEH		08/15/96	1837	MBB	GC2
75049-3	08/13/96	0913	SEH		08/15/96	1913	MBB	GC2
75162-4	08/15/96	1200	SEH		08/15/96	2136	MBB	GC2
75162-3	08/15/96	1200	SEH		08/15/96	2100	MBB	GC2
75162-1	08/15/96	1200	SEH		08/15/96	1948	MBB	GC2
75162-2	08/15/96	1200	SEH		08/15/96	2024	MBB	GC2

Analytical Services Inc. Batch QC
For Report Number :75049
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
75066	B3895	60	69	69	71	83	72

Q.C. Information for Batch # 24007 Printed: 08/26/96 16:29:04

Sample Batch Information
Base Neutrals / Acids Method : EPA 8270

Sample ID	Preparation Date	Time	By	Preparation Notes	Analysis Date	Time	By	Inst #
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
75048-1	08/15/96	1330	JQZ		08/18/96	1904	DMB	5971
75048-2	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

Analytical Services Inc. Batch QC
For Report Number :75049
Base Neutrals / Acids

Matrix : Aqueous Batch # 24011 Method : EPA 8270

Lab Control Information Analyte	LC %Rec	LCD %Rec	LC RPD	%Recovery Range	RPD Range
Phenol	35	35	0	12 - 89	0 - 42
2-Chlorophenol	63	64	1	27 - 123	0 - 40
1,4-Dichlorobenzene	54	66	21	36 - 97	0 - 28
N-Nitrosodipropylamine	73	77	5	41 - 116	0 - 38
1,2,4-Trichlorobenzene	63	73	15	44 - 142	0 - 28
4-Chloro-3-methylphenol	65	54	18	23 - 97	0 - 42
Acenaphthene	90	94	4	46 - 118	0 - 31
2,4-Dinitrotoluene	32	31	4	24 - 96	0 - 38
4-Nitrophenol	19	13	36	10 - 80	0 - 50
Pentachlorophenol	13	10	26	9 - 103	0 - 50
Pyrene	93	95	2	26 - 127	0 - 31

^^Note : BATCH PASSES ON LCS\LCSD DATA

Matrix Spike Information Analyte	MS %Rec	MSD %Rec	MS RPD	%Recovery Range	RPD Range
Phenol	0	0	NC	12 - 89	0 - 42
2-Chlorophenol	0	0	NC	27 - 123	0 - 40
1,4-Dichlorobenzene	0	0	NC	36 - 97	0 - 28
N-Nitrosodipropylamine	0	0	NC	41 - 116	0 - 38
1,2,4-Trichlorobenzene	0	0	NC	44 - 142	0 - 28
4-Chloro-3-methylphenol	0	0	NC	23 - 97	0 - 42
Acenaphthene	0	0	NC	46 - 118	0 - 31
2,4-Dinitrotoluene	0	0	NC	24 - 96	0 - 38
4-Nitrophenol	0	0	NC	10 - 80	0 - 50
Pentachlorophenol	0	0	NC	9 - 103	0 - 50
Pyrene	0	0	NC	26 - 127	0 - 31

^^Note : BATCH PASSES ON LCS\LCSD DATA

NC = Not Calculated

Analytical Services Inc. Batch QC
Surrogate Recovery
Base Neutrals / Acids

Matrix : Aqueous Batch # 24011 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
24011-BLK	A2866	44	33	62	65	39	64
24011-LCS	A2867	37	28	59	59	53	54
24011-LCSD	A2868	36	28	66	64	41	55
75047-5	A2869			57	63		24
^^Note: BN ONLY							
75047-6	A2870			54	58		35
^^Note: BN ONLY							
75056-1	A2877	22	22	13	31	10	11
^^Note: MATRIX EFFECT							
75056-2	A2874	3	4	45	34	19	7
^^Note: MATRIX EFFECT							
75048-4	A2871			49	61		39
^^Note: PAH ONLY							
75048-5	A2872			57	57		36
^^Note: PAH ONLY							
75048-6	A2873			52	58		34
^^Note: PAH ONLY							
75049-4	A2876	29	24	20	74	35	25
^^Note: MATRIX EFFECT							
75048-5D	B3816			72	81		44
^^Note: BN ONLY							

Q.C. Information for Batch # 24011 Printed: 08/26/96 16:29:08

Sample Batch Information

Base Neutrals / Acids Method : EPA 8270

Sample ID	Preparation Date	Time	By	Preparation Notes	Analysis Date	Time	By	Inst #
24011-BLK	08/13/96	0900	BLM		08/14/96	1311	DMB	5970
24011-LCS	08/13/96	0900	BLM		08/14/96	1349	DMB	5970
24011-LCSD	08/13/96	0900	BLM		08/14/96	1428	DMB	5970
75047-5	08/13/96	0900	BLM		08/14/96	1506	DMB	5970
75047-6	08/13/96	0900	BLM		08/14/96	1545	DMB	5970
75048-5	08/13/96	0900	BLM		08/14/96	1740	DMB	5970
75048-4	08/13/96	0900	BLM		08/14/96	1630	DMB	5970
75048-6	08/13/96	0900	BLM		08/14/96	1748	DMB	5970
75049-4	08/13/96	0900	BLM		08/14/96	1943	DMB	5970
75056-1	08/13/96	0900	BLM		08/14/96	2022	DMB	5970
75056-2	08/13/96	0900	BLM		08/14/96	1826	DMB	5970
75047-4	08/14/96				/ /			
75048-5D	/ /				08/15/96	2155	DMB	5971

Analytical Services Inc. Batch QC
For Report Number :75049
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

Analytical Services Inc. Batch QC
Surrogate Recovery
Volatile Organics

Matrix : Soil/Sediment Batch # 24017 Method : EPA 8020

% Recovery Objectives

S1	Bromofluorobenzene	50 - 150

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							

Q.C. Information for Batch # 24017 Printed: 08/26/96 16:29:11

Sample Batch Information
Volatile Organics Method : EPA 8020

Sample ID	Preparation Date	Time	By	Preparation Notes	Analysis Date	Time	By	Inst #
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 :75049
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

S1	Bromofluorobenzene	50 - 150

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

Q.C. Information for Batch # 24018 Printed: 08/26/96 16:29:13

Sample Batch Information
Volatile Organics Method : EPA 8020

Sample ID	Preparation Date	Time	By	Preparation Notes	Analysis Date	Time	By	Inst #
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
75181-6RA	/ /				08/16/96	1210	BDL	VGC1

Analytical Services Inc. Batch QC
For Report Number :75049
Base Neutrals / Acids

Matrix : Soil/Sediment Batch # 24093 Method : EPA 8270

Lab Control Information Analyte	LC %Rec	LCD %Rec	LC RPD	%Recovery Range	RPD Range
Phenol	68	67	2	26 - 90	0 - 35
2-Chlorophenol	66	66	1	25 - 102	0 - 50
1,4-Dichlorobenzene	70	70	0	28 - 104	0 - 27
N-Nitrosodipropylamine	84	83	1	41 - 126	0 - 38
1,2,4-Trichlorobenzene	76	74	3	38 - 107	0 - 23
4-Chloro-3-methylphenol	76	71	7	26 - 103	0 - 33
Acenaphthene	91	85	7	31 - 137	0 - 19
2,4-Dinitrotoluene	83	77	8	28 - 89	0 - 47
4-Nitrophenol	76	75	2	11 - 114	0 - 50
Pentachlorophenol	74	70	5	17 - 109	0 - 47
Pyrene	121	127	5	35 - 142	0 - 36

Matrix Spike Information Analyte	MS %Rec	MSD %Rec	MS RPD	%Recovery Range	RPD Range
Phenol	57	66	15	26 - 90	0 - 35
2-Chlorophenol	55	66	18	25 - 102	0 - 50
1,4-Dichlorobenzene	54	66	20	28 - 104	0 - 27
N-Nitrosodipropylamine	69	77	11	41 - 126	0 - 38
1,2,4-Trichlorobenzene	58	71	20	38 - 107	0 - 23
4-Chloro-3-methylphenol	61	77	23	26 - 103	0 - 33
Acenaphthene	69	82	17	31 - 137	0 - 19
2,4-Dinitrotoluene	71	82	14	28 - 89	0 - 47
4-Nitrophenol	61	89	38	11 - 114	0 - 50
Pentachlorophenol	66	76	14	17 - 109	0 - 47
Pyrene	119	126	6	35 - 142	0 - 36

Analytical Services Inc. Batch QC
Surrogate Recovery
Base Neutrals / Acids

Matrix : Soil/Sediment Batch # 24093 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
75049-1	B3910	55	67	64	66	66	78
24093BLK	B3930	58	79	75	87	75	110
24093LCS	B3931	60	72	78	90	88	127
24093LCSD	B3932	59	71	74	84	83	118
75069-1	B3940	37	49	87	74	78	64
^^Note: NEEDS 1:10 DILUTION							
75069-2D	B3941	58	79	75	75	53	62
^^Note: 1:10 DILUTION							
75127-1	B3943	50	65	70	75	62	91
75127-2	B3944	52	64	64	68	68	101
75127-3	B3945	51	63	63	60	62	117
75127-4	B3948	62	74	74	74	76	127
75127-3MS	B3946	51	51	61	64	72	128
75127-3MSD	B3947	63	62	77	79	84	121
75167D	B3942	34	44	146	73	69	69
^^Note: 1:10 DILUTION,MATRIX EFFECT							
75235	B3949	63	75	76	74	81	119
75226	B3950	70	78	80	82	82	110
75069-1D	B3955	51	71	93	79	78	74
^^Note: 1:10 DILUTION							
75243-1	B3958	42	60	57	65	63	99
75243-2	B3959	43	56	50	58	61	76
75243-3	B3960	30	38	46	44	45	71
75243-4	B3964	63	77	72	82	81	109
75243-4DUP	B3965	53	65	65	73	79	115
75225-1	B3966	42	53	71	39	32	6
^^Note: MATRIX EFFECT							
75199	B3974	68	96	94	90	112	83
75225-2	B3975	30	46	44	63	53	39
^^Note: 1:10 DILUTION							

Q.C. Information for Batch # 24093 Printed: 08/26/96 16:29:17

Sample Batch Information
Base Neutrals / Acids Method : EPA 8270

Sample ID	Preparation Date	Time	By	Preparation Notes	Analysis Date	Time	By	Inst #
75069-1	08/19/96	1700	JQZ		08/21/96	1918	DMB	5971
75069-2	08/19/96	1700	JQZ	SEE DILUTION	/ /			
75199	08/19/96	1700	JQZ		08/23/96	1253	DMB	5971
75127-1	08/19/96	1700	JQZ		08/20/96	2112	DMB	5971
75127-2	08/19/96	1700	JQZ		08/21/96	2150	DMB	5971
75127-3	08/19/96	1700	JQZ		08/21/96	2228	DMB	5971
75127-4	08/19/96	1700	JQZ		08/22/96	1221	DMB	5971
75167	08/19/96	1700	JQZ	SEE DILUTION	/ /			
74885AT1	08/19/96	1700	JQZ		/ /			
75049-1	08/19/96	1700	JQZ		08/21/96	1423	DMB	5971
75226	08/19/96	1700	JQZ		08/22/96	0138	DMB	5971
75235	08/19/96	1700	JQZ		08/22/96	1259	DMB	5971
75243-1	08/19/96	1300	AO		08/22/96	1524	DMB	5971
75243-2	08/19/96	1300	AO		08/22/96	1602	DMB	5971
75243-3	08/19/96	1300	AO		08/22/96	1640	DMB	5971
75243-4	08/19/96	1300	AO		08/22/96	1914	DMB	5971
75243-4DUP	08/19/96	1300	AO		08/22/96	1952	DMB	5971
75225-1	08/19/96	1300	AO		08/22/96	2030	DMB	5971
75225-2	08/19/96	1300	AO		08/23/96	1332	DMB	5971
24[illegible]3BLK	08/19/96	1700	JQZ		08/21/96	1223	DMB	5971
24[illegible]3LCS	08/19/96	1700	JQZ		08/21/96	1301	DMB	5971
24093LCSD	08/19/96	1700	JQZ		08/21/96	1339	DMB	5971
75069-2D	08/21/96	1600	DMB		08/21/96	1956	DMB	5971
75127-3MS	08/19/96	1700	JQZ		08/21/96	2306	DMB	5971
75127-3MSD	08/19/96	1700	JQZ		08/21/96	2343	DMB	5971
75167D	08/21/96	1600	DMB		08/21/96	2034	DMB	5971
75069-1D	08/21/96	1600	DMB		08/22/96	1327	DMB	5971

Analytical Services Inc. Batch QC
For Report Number :75049

QC Batch General Information

Batch Number	Analyte	Analysis Method	Matrix	Blank Result	Prep. Method
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
23946	TS	EPA 160.3	94	97	3	60 - 140	0 - 40

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

Q.C. Information for Batch # 23946 For Report Number :75049

Sample Batch Information
Analysis : TS

Sample ID	Tag	Preparation Date	Time	By	Preparation Notes	Analysis Date	Time	By	Inst
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	

J.S. Army Corps of Engineers Work Order # ______ Job # 4069 Chain of Custody Recor(
(ER 1110-1-263)

#1 15044

Proj. No. | Project Name F. Stewart

TAT Sdays

Sampler : (Signature)

Sdays

Date	Time	Pres.	Grab	Comp	Site Code/Sample Number	Number of Containers	M8020	M8270	GRO 8015M	DRO 8015D			Remarks: SAD NO.	MATRIX
8/7/96	1445				1824-D1	4	✓	✓	✓	✓	-1		29740	Soil
↓	1400				1824-D3	4	✓	✓	✓	✓	-2		29741	↓
↓	1630				1824-D2	4	✓	✓	✓	✓	-3		29742	Soil
8/8/96	1010				TK38-GW	4	✓	✓			-4		29743	Water
↓					TRIP-BLANK	1	✓				-5		29744	↓

-1,2,3
8020 = a 8270 = b GRO = c
DRO = d
-4 8020 = a,b 8270 = c,d

Sampler Relinquished by:	Date/Time	Received by: (Sig.)	Date/Time	Hazards Associated with Samples
Relinquished by: (Sig.) [signature]	Date/Time 8/9/96	Received by: (Sig.)	Date/Time	
Relinquished by: (Sig)	Date/Time	Received for Laboratory by: (Sig.) Suzette Wrick	Date/Time 8/12/96 0730	Remarks at time of receipt: 17 containers Bagged ice, seals intact temp-4°C pH=n/a
Custody Seal No.		Lab case No.:		

ENG Form 50__R, Oct 90 Propo__: CEMP-RT

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. 52

Customer Triple R. Mgt

Description PCS

Project Number RRR 104

Location Stewart

County Tilton

34920 lb Net
20160 lb Tare
55080 lb+ Gross
12:22 PM AU 30 96

Signature of Weigher

TONS: 17.46 TOTAL TONS: 956.99 ~~960.98~~

TRUCKER

TRUCK NO. 414

DRIVER

TICKET NO. 60164

VIP-1518-HV

44

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

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. . . . . .

1. Page 1 of 1

GENERATOR

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 912-427-6758
B. Transporter's Phone
C. Facility's Phone 912-756-3655

7. Waste Shipping Name and Description	8. Containers No.	8. Containers 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	Signature	Month	Day	Year
Tom Fry	Tom Fry	08	30	96

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Raymond G. Baca	Raymond G. Baca	8	30	96

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

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	Signature	Month	Day	Year
Charles Pruitt	Charles Pruitt	8	30	96

ORIGINAL – RETURN TO GENERATOR

REYNOLDS CONSTRUCTION COMPANY

Highway 84 • P. O. Box 749
Ludowici, Georgia 31316
Office (912) 368-7488 • Plant (912) 876-8085

Date ______ 19__ Load No. 51

Triple R, Mngt — PCS

Customer — Description

R.R.R. 104

Project Number

Ft Stewart — Liberty

Location — County

41940 lb Net
21700 lb Tare
63640 lb+ Gross
12:17 PM AU 30 96

Signature of Weigher: Charles

TONS: 20.97 TOTAL TONS: ~~918.56~~ 939.53

TRUCKER: Hendrix TRUCK NO.: 64

DRIVER: ______ TICKET NO. 60163

VIP-1518-HV

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

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. . . . . 1. Page 1 of 1

GENERATOR

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.	8. Containers 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 08 Day 30 Year 96

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Malcolm B Ransom — Signature: [signature] — Month 08 Day 30 Year 96

14. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month . Day . Year .

FACILITY

15. Discrepancy Indication Space

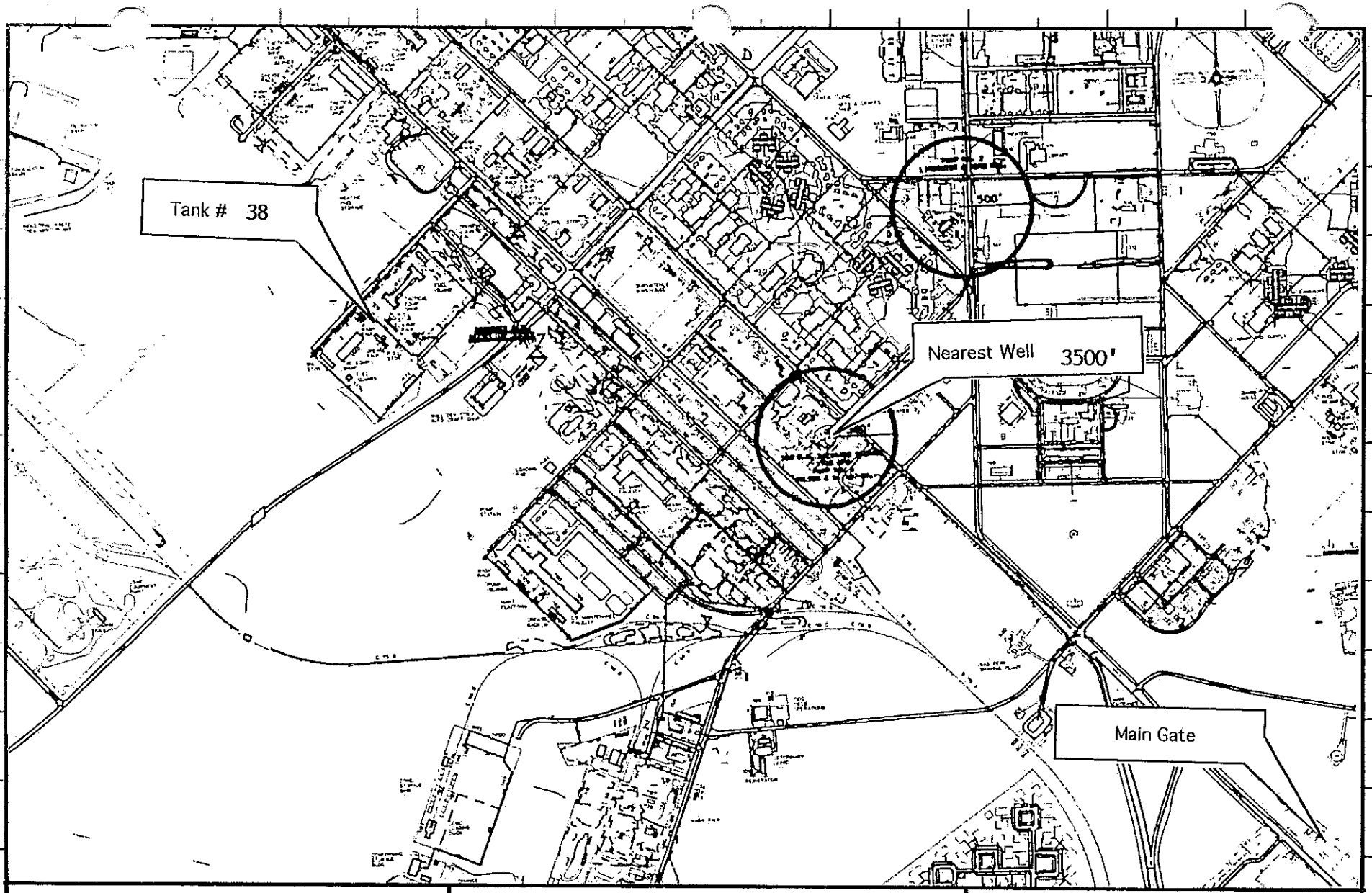
16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Charles Pruitt — Signature: Charles Pruitt — Month 8 Day 30 Year 96

ORIGINAL – RETURN TO GENERATOR

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 # 38
Fort Stewart
Hinesville, Georgia

DRAWING NO.: FIGURE 1