

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

CLOSURE REPORT

WASTE OIL TANK
BUILDING 1350, TANK 100B
FACILITY ID NUMBER: 9-089081
FT. STEWART, GEORGIA

PREPARED BY:

ANDERSON COLUMBIA ENVIRONMENTAL, INC.

NOVEMBER 1996

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 Parkway, 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 1350
Street Address: FAC 1350
Ft. Stewart GA 31314-5000
(city) (state) (zip code)
Facility ID# 9-089081

3. Contract Certification:

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

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

Signature: [Signature] Date: 11/12/96

4. Site-specific Hydrogeology:

Depth to Groundwater _____ ft. if encountered

☒ Not Applicable

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

REFER TO TAB 5

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

6. Tank Removal

- Date of Removal: 2-Aug-96
- Tank Information:

<u>Tank #</u>	<u>Tank Size (gallons)</u>	<u>Tank Contents</u>
100B	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 _____

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)

39.28 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

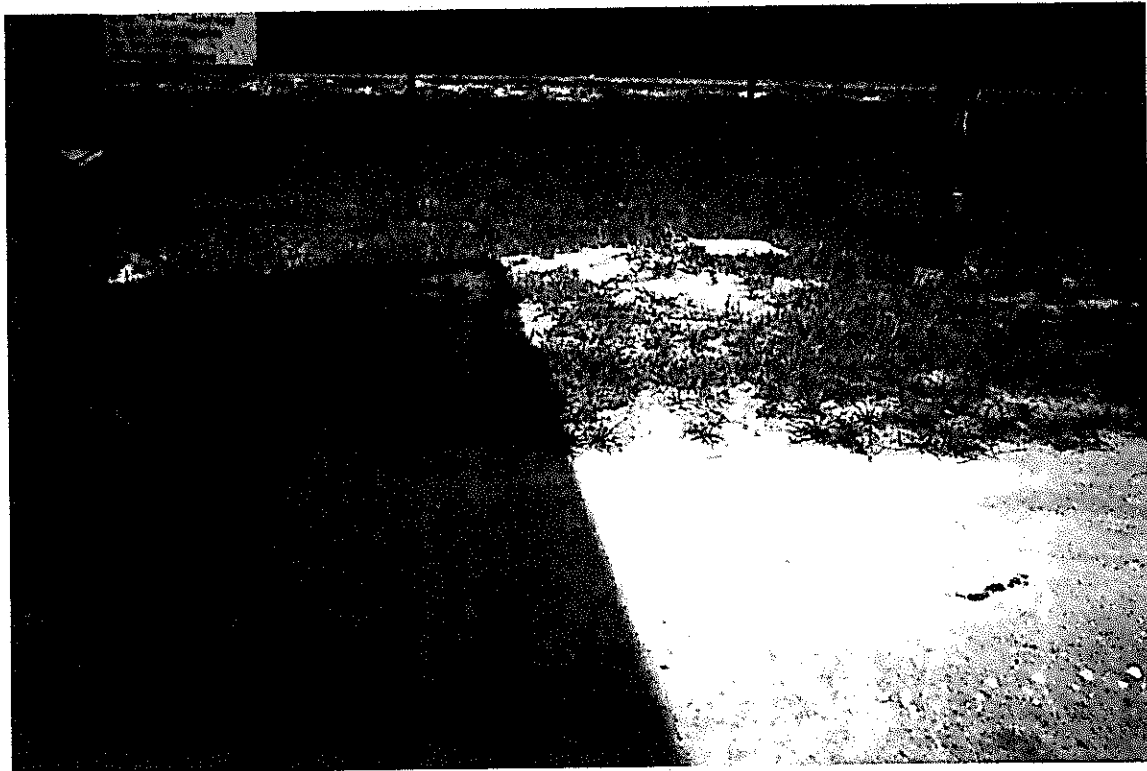


Photo 1. The Tank 100B site prior to removal.

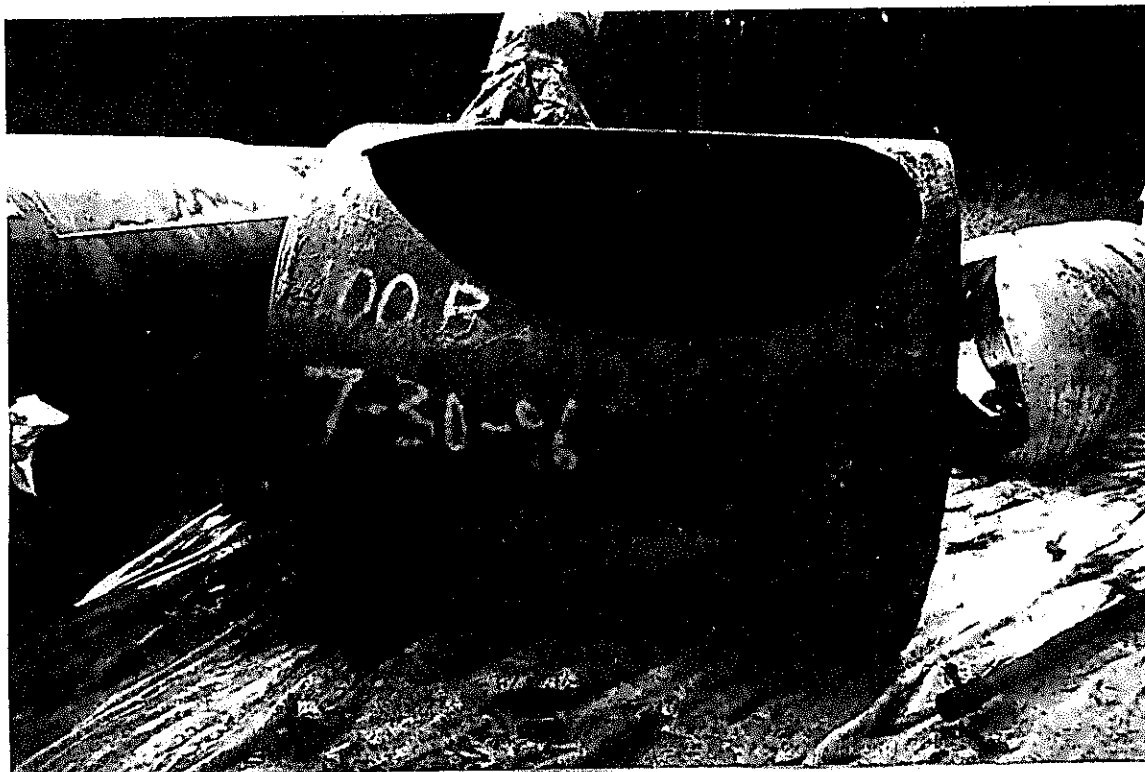


Photo 2. Tank 100B after cutting and cleaning.

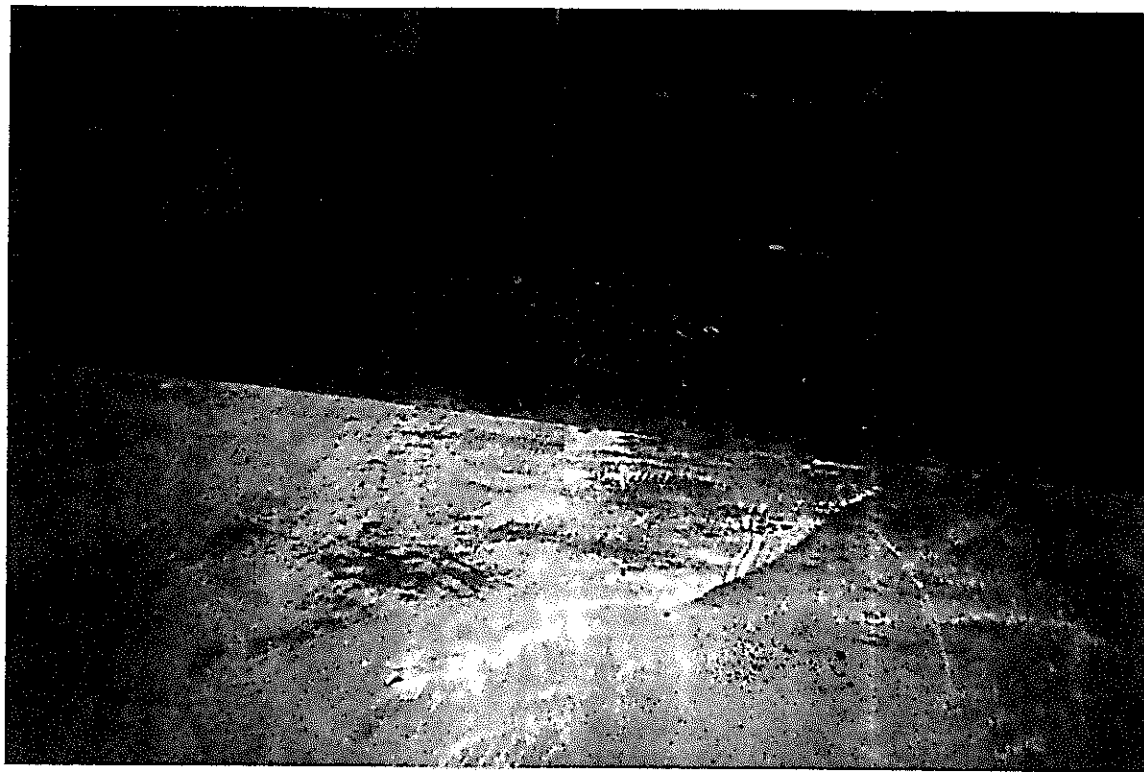
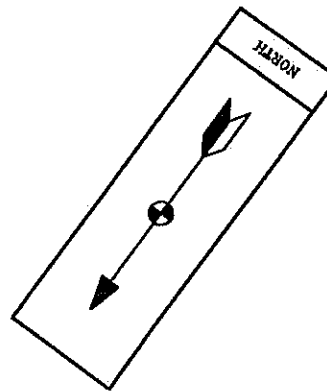


Photo 3. The Tank 100B site after tank removal and backfilling.

TAB 5

SITE MAPS

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

[illegible]

EXCAVATION AREA: ~9' X 14' X 6' DEEP
TANK DIMENSIONS: 64" X 6'-0"

DR. N.A.M. CH'D DR. APP.
ENGR. ENGR.'S DEPT.
DATE 11-6-96 SCALE N.T.S.

LOCATION: BLDG. 1350
TANK 100B

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: 9-089081

OWNER'S ID: 197

INITIAL DATE RECEIVED: 05-06-1986

DATE AMENDED LAST: _____

NOTIFICATION TYPE: ☐ New ☒ Amended ☒ Closure

OWNERSHIP OF TANK (S): NUMBER OF TANK (S): 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 1350
Street Address : FAC 1350
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 II: Tank Data

FACILITY ID	9-089081				
TANK ID	100B				
Status of Tank					
Currently in Use	☒				
Temp. Out of Use					
Perm. Out of Use	☒				
Date of Installation	01-01-1988				
Age	8				
Est. Total Capacity	1000				
MATERIAL OF CONSTRUCTION					
Asphalt or Bare Steel					
Cath. Protected Steel					
Epoxy Coated Steel					
Composite					
Fiberglass Reinf. Plas.	x				
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	9-089081										
TANK ID	100B										
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	1Aug 96	1Aug 96									
Est. Date Closed	2Aug 96	2Aug 96									
Removed from Ground	X										
Closed in Ground		X									
Filled with Iner. Mat.		X									
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.

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()

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TAB 7

ANALYTICAL DATA

TAB 7 - Laboratory Analytical Data

Delivery Order #101
Fort Stewart, Georgia
Tank Number 100B
Building Number 1350

<i>Method</i>	9073	418.1	8020	8270B
Sample ID	TRPH	TPH	BTEX	Semi-Volatile Organics
<i>unit</i>	ppm	ppm	ppb	ppb
8101-TK100B-S1		139140	91	16432
bdl= below method detection limits				

**Fort Stewart is in an area of 'High or Average Groundwater pollution susceptibility' and this tank is approximately 2300 feet from a withdrawal point. Comparisons should be made to Table A for contaminants >500 feet from a withdrawal point.

39.28 tons of petroleum contaminated soil was removed from the Tank 100B 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)	
	≤500 feet to withdrawal point	>500 feet to withdrawal point	≤500 feet to withdrawal point	>500 feet to withdrawal point
VOLATILE ORGANIC COMPOUNDS				
Benzene ^d	0.005 mg/kg ^d	0.008 mg/kg	0.005 mg/kg ^d	0.71 mg/kg
Toluene	0.400 mg/kg	6.00 mg/kg	0.400 mg/kg	500.00 mg/kg
Ethylbenzene	0.370 mg/kg	10.00 mg/kg	0.500 mg/kg	140.00 mg/kg
Xylenes (total)	20.00 mg/kg	700.00 mg/kg	27.00 mg/kg	700.00 mg/kg
POLYNUCLEAR AROMATIC HYDROCARBONS				
Acenaphthene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Anthracene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benz(a)anthracene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benzo(a)pyrene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Benzo(b)fluoranthene	0.820 mg/kg ^{d,f}	N/A ^e	N/A ^e	N/A ^e
Benzo(g,h,i)perylene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benzo(k)fluoranthene	1.60 mg/kg ^{d,f}	N/A ^e	N/A ^e	N/A ^e
Chrysene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Dibenz(a,h)anthracene	1.50 mg/kg ^{d,f}	N/A ^e	N/A ^e	N/A ^e
Fluoranthene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Fluorene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Indeno(1,2,3-c,d)pyrene	0.660 mg/kg ^d	N/A ^e	0.660 mg/kg ^d	N/A ^e
Naphthalene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Phenanthrene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Pyrene	N/A ^e	N/A ^e	N/A ^e	N/A ^e

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

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

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

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

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

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

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

Table B

Petroleum Constituents and Soil Threshold^a Levels

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 ^d	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
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 30 and 31 July 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



25 Aug 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 - 96/08/01 Requisition - PMS-96-109
Date Reported - 96/08/21 09:39:38 Work Order - 7996 Job Number - 4047

Lab #	Field ID	Date Sampled	Time Sampled
29664	8101-TK100A-S1	96/07/30	09:30

Test Performed	Result	Units	Tested By	Test Date
TOTAL SOLIDS, % OF WET	86.40	%	ECO	96/08/05
AROMATIC VOLATILE ORGANICS	*		ECO	96/08/08
SEMIVOLATILE ORGANICS GC/MS	*		ECO	96/08/07
TRPH	< 5.8	MG/KG	ECO	96/08/08

*NOTE: See Attached

Sampled by District Personnel

Checked by: BT

Signed by:

Blaise Willis
Blaise Willis
Chemist

Set 1 of 4

Lab # Field ID

665 8101-TK100B-S1

Date Sampled

96/07/30

Time Sampled

16:00

Test Performed

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

Result	Units
-----	-----
88.40	%
*	
*	
139140.0	MG/KG

Tested By	Test Date
-----	-----
ECO	96/08/05
ECO	96/08/08
ECO	96/08/07
ECO	96/08/08

*NOTE: See Attached

Sampled by District Personnel

Checked by: BT

Signed by:

Blaise Willis

Blaise Willis
Chemist

Set 2 of 4

Lab # Field ID

9666 8101-TK94B-S1

Date Sampled Time Sampled

96/07/31 10:00

Test Performed	Result	Units	Tested By	Test Date
-----	-----	-----	-----	-----
TOTAL SOLIDS, % OF WET	87.50	%	ECO	96/08/05
AROMATIC VOLATILE ORGANICS	*		ECO	96/08/08
SEMIVOLATILE ORGANICS GC/MS	*		ECO	96/08/07
TRPH	366.0	MG/KG	ECO	96/08/08

*NOTE: See Attached

Sampled by District Personnel

Checked by: BT

Signed by:

Blaise Willis

Blaise Willis
Chemist

set 3 of 4

Lab # Field ID

667 8101-TK94B-S2

Date Sampled Time Sampled

96/07/31 10:15

Test Performed	Result	Units	Tested By	Test Date
-----	-----	-----	-----	-----
TOTAL SOLIDS, % OF WET	90.40	%	ECO	96/08/05
AROMATIC VOLATILE ORGANICS	*		ECO	96/08/08
SEMIVOLATILE ORGANICS GC/MS	*		ECO	96/08/07
TRPH	420.0	MG/KG	ECO	96/08/08

*NOTE: See Attached

Sampled by District Personnel

Checked by: BT

Signed by: -

Blaise Willis

Blaise Willis
Chemist

set 4 of 4

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

DATE: 8/1/96

Number of coolers 1 Returned cooler(s) to: Arthur S. Chandra

PROJECT: FT. STEWART W.O.# _____ JOB# 4047

Coolers(s) opened by (print name) Ben C. McDonald (sign) Ben C. McDonald

1. Did cooler come with shipping slip? 1020383254 ☒ yes ☐ no
If yes, enter Tracking Number here _____
2. Were custody seals on out side of cooler? ☒ yes ☐ no
How many? 1 Date on seal(s) 7/31/96 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: 3C
7. Describe cooler packing: Ø
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 2 days

16. Number of Samples 4 Sample Type: ☒ soil ☐ water ☐ other _____

SAMPLE ANALYSIS PERFORMED BY: ELB 343 TAT Leguian

COMMENTS: _____

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

☒ yes ☐ no

LAB NUMBER(S): 29604-29607

SIGNATURE: Ben C. McDonald

1412 Oakbrook Drive
Suite 105
Jorcross, Georgia 30093
Phone (770) 368-0636
Fax (770) 368-0806

USACE-SAD
Blaisdell Willis
611 South Cobb Drive
Marietta, GA 30060
P: 919-5270 F: 919-4977

Client Code 29112130
Ledger Number 108040
P.O. Number
Date Received 08/02/96
Time Received 10:31
Reporting Date 08/20/96

Ledger Comment Results are reported on a dry weight basis.

Lab Sample ID AB36686 Client Site # 29664
Project # 4047 Client Sample # 8101-TK100A-S1
Project Name FT. STEWART
Sampling Date/Time 07/30/96 09:30

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/07/96		Batch 0807960004			
8270B	PHENOL	\$06013	Below MDL	382	ug/Kg	1.0	108-95-2	GC	08/07/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	382	ug/Kg	1.0	111-44-4	GC	08/07/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	382	ug/Kg	1.0	95-57-8	GC	08/07/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	382	ug/Kg	1.0	541-73-1	GC	08/07/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	382	ug/Kg	1.0	106-46-7	GC	08/07/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	382	ug/Kg	1.0	95-50-1	GC	08/07/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	382	ug/Kg	1.0	108-60-1	GC	08/07/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	382	ug/Kg	1.0	95-48-7	GC	08/07/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	382	ug/Kg	1.0	106-44-5	GC	08/07/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	382	ug/Kg	1.0	621-64-7	GC	08/07/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	382	ug/Kg	1.0	67-72-1	GC	08/07/96
8270B	NITROBENZENE	\$06013	Below MDL	382	ug/Kg	1.0	98-95-3	GC	08/07/96
8270B	ISOPHORONE	\$06013	Below MDL	382	ug/Kg	1.0	78-59-1	GC	08/07/96
8270B	2-NITROPHENOL	\$06013	Below MDL	764	ug/Kg	1.0	88-75-5	GC	08/07/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	382	ug/Kg	1.0	105-67-9	GC	08/07/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	382	ug/Kg	1.0	111-91-1	GC	08/07/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	382	ug/Kg	1.0	120-83-2	GC	08/07/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	382	ug/Kg	1.0	120-82-1	GC	08/07/96
8270B	NAPHTHALENE	\$06013	Below MDL	382	ug/Kg	1.0	91-20-3	GC	08/07/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	382	ug/Kg	1.0	106-47-8	GC	08/07/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	382	ug/Kg	1.0	87-68-3	GC	08/07/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	764	ug/Kg	1.0	59-50-7	GC	08/07/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	382	ug/Kg	1.0	91-57-6	GC	08/07/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	382	ug/Kg	1.0	77-47-4	GC	08/07/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	382	ug/Kg	1.0	88-06-2	GC	08/07/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	382	ug/Kg	1.0	95-95-4	GC	08/07/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	382	ug/Kg	1.0	91-58-7	GC	08/07/96
8270B	2-NITROANILINE	\$06013	Below MDL	382	ug/Kg	1.0	88-74-4	GC	08/07/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	382	ug/Kg	1.0	131-11-3	GC	08/07/96

Lab Sample ID AB36686
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time 07/30/96 09:30

Client Site # 29664
 Client Sample # 8101-TK100A-S1

THOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/07/96			Batch 0807960004		
8270B	ACENAPHTHYLENE	\$06013	Below MDL	382	ug/Kg	1.0	208-96-8	GC	08/07/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	382	ug/Kg	1.0	606-20-2	GC	08/07/96
8270B	3-NITROANILINE	\$06013	Below MDL	382	ug/Kg	1.0	99-09-2	GC	08/07/96
8270B	ACENAPHTHENE	\$06013	Below MDL	382	ug/Kg	1.0	83-32-9	GC	08/07/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	1910	ug/Kg	1.0	51-28-5	GC	08/07/96
8270B	4-NITROPHENOL	\$06013	Below MDL	1910	ug/Kg	1.0	100-02-7	GC	08/07/96
8270B	DIBENZOFURAN	\$06013	Below MDL	382	ug/Kg	1.0	132-64-9	GC	08/07/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	382	ug/Kg	1.0	121-14-2	GC	08/07/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	382	ug/Kg	1.0	84-66-2	GC	08/07/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	382	ug/Kg	1.0	7005-72-3	GC	08/07/96
8270B	FLUORENE	\$06013	Below MDL	382	ug/Kg	1.0	86-73-7	GC	08/07/96
8270B	4-NITROANILINE	\$06013	Below MDL	382	ug/Kg	1.0	100-01-6	GC	08/07/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1910	ug/Kg	1.0	534-52-1	GC	08/07/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	382	ug/Kg	1.0	86-30-6	GC	08/07/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	382	ug/Kg	1.0	101-55-3	GC	08/07/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	382	ug/Kg	1.0	118-74-1	GC	08/07/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	1910	ug/Kg	1.0	87-86-5	GC	08/07/96
8270B	PHENANTHRENE	\$06013	Below MDL	382	ug/Kg	1.0	85-01-8	GC	08/07/96
8270B	ANTHRACENE	\$06013	Below MDL	382	ug/Kg	1.0	120-12-7	GC	08/07/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	382	ug/Kg	1.0	84-74-2	GC	08/07/96
8270B	FLUORANTHENE	\$06013	Below MDL	382	ug/Kg	1.0	206-44-0	GC	08/07/96
8270B	PYRENE	\$06013	Below MDL	382	ug/Kg	1.0	129-00-0	GC	08/07/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	382	ug/Kg	1.0	85-68-7	GC	08/07/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	764	ug/Kg	1.0	91-94-1	GC	08/07/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	382	ug/Kg	1.0	56-55-3	GC	08/07/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	382	ug/Kg	1.0	117-81-7	GC	08/07/96
8270B	CHRYSENE	\$06013	Below MDL	382	ug/Kg	1.0	218-01-9	GC	08/07/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	382	ug/Kg	1.0	117-84-0	GC	08/07/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	382	ug/Kg	1.0	205-99-2	GC	08/07/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	382	ug/Kg	1.0	207-08-9	GC	08/07/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	382	ug/Kg	1.0	50-32-8	GC	08/07/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	382	ug/Kg	1.0	193-39-5	GC	08/07/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	382	ug/Kg	1.0	53-70-3	GC	08/07/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	382	ug/Kg	1.0	191-24-2	GC	08/07/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	37	%	REC	1.0	367-12-4	GC	08/07/96
8270B	PHENOL-D5 (SURR)	\$06013	39	%	REC	1.0	13127-88-3	GC	08/07/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	27	%	REC	1.0	4165-60-0	GC	08/07/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	50	%	REC	1.0	321-60-8	GC	08/07/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	58	%	REC	1.0	118-79-6	GC	08/07/96
8270B	TERPHENYL-D14 (SURR)	\$06013	90	%	REC	1.0	1718-51-0	GC	08/07/96
8270B	CARBAZOLE	\$06013	Below MDL	382	ug/Kg	1.0	86-74-8	GC	08/07/96
BTX (GC) SOIL				Prep Date 08/08/96			Batch 080896BW		
8020A	BENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	71-43-2	DTA	08/08/96
8020A	TOLUENE	\$08006	Below MDL	1.2	ug/Kg	1.0	108-88-3	DTA	08/08/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	100-41-4	DTA	08/08/96

Lab Sample ID AB36686
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time 07/30/96 09:30

Client Site # 29664
 Client Sample # 8101-TK100A-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 08/08/96			Batch 080896BW		
8020A	XYLENES (TOTAL)	\$08006	Below MDL	1.2	ug/Kg	1.0	1330-20-7	DTA	08/08/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	78	%	REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	74	%	REC	1.0	460-00-4	DTA	08/08/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	108-90-7	DTA	08/08/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	95-50-1	DTA	08/08/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	541-73-1	DTA	08/08/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	106-46-7	DTA	08/08/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.2	ug/Kg	1.0	1634-04-4	DTA	08/08/96
				Prep Date 08/08/96			Batch 080896		
418.1	TPH (FTIR) SOIL	08008	Below MDL	5.8	mg/Kg	1.0		MB	08/08/96
				Prep Date 08/05/96			Batch 080596		
160.3	% TOTAL SOLIDS SOIL (N/C)	09099	86.4	0.1	%	1.0		MN	08/05/96

Lab Sample ID AB36687
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time 07/30/96 16:00

Client Site # 29665
 Client Sample # 8101-TK100B-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/07/96			Batch 0807960004		
8270B	PHENOL	\$06013	Below MDL	2240	ug/Kg	6.0	108-95-2	GC	08/07/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	2240	ug/Kg	6.0	111-44-4	GC	08/07/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	2240	ug/Kg	6.0	95-57-8	GC	08/07/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	2240	ug/Kg	6.0	541-73-1	GC	08/07/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	2240	ug/Kg	6.0	106-46-7	GC	08/07/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	2240	ug/Kg	6.0	95-50-1	GC	08/07/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	2240	ug/Kg	6.0	108-60-1	GC	08/07/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	2240	ug/Kg	6.0	95-48-7	GC	08/07/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	2240	ug/Kg	6.0	106-44-5	GC	08/07/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	2240	ug/Kg	6.0	621-64-7	GC	08/07/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	2240	ug/Kg	6.0	67-72-1	GC	08/07/96
8270B	NITROBENZENE	\$06013	Below MDL	2240	ug/Kg	6.0	98-95-3	GC	08/07/96
8270B	ISOPHORONE	\$06013	Below MDL	2240	ug/Kg	6.0	78-59-1	GC	08/07/96
8270B	2-NITROPHENOL	\$06013	Below MDL	4480	ug/Kg	6.0	88-75-5	GC	08/07/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	2240	ug/Kg	6.0	105-67-9	GC	08/07/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	2240	ug/Kg	6.0	111-91-1	GC	08/07/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	2240	ug/Kg	6.0	120-83-2	GC	08/07/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	2240	ug/Kg	6.0	120-82-1	GC	08/07/96
8270B	NAPHTHALENE	\$06013	Below MDL	2240	ug/Kg	6.0	91-20-3	GC	08/07/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	2240	ug/Kg	6.0	106-47-8	GC	08/07/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	2240	ug/Kg	6.0	87-68-3	GC	08/07/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	4480	ug/Kg	6.0	59-50-7	GC	08/07/96

Lab Sample ID AB36687
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time 07/30/96 16:00

Client Site # 29665
 Client Sample # 8101-TK100B-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/07/96			Batch 0807960004		
8270B	2-METHYLNAPHTHALENE	\$06013	4231	2240	ug/Kg	6.0	91-57-6	GC	08/07/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	2240	ug/Kg	6.0	77-47-4	GC	08/07/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	2240	ug/Kg	6.0	88-06-2	GC	08/07/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	2240	ug/Kg	6.0	95-95-4	GC	08/07/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	2240	ug/Kg	6.0	91-58-7	GC	08/07/96
8270B	2-NITROANILINE	\$06013	Below MDL	2240	ug/Kg	6.0	88-74-4	GC	08/07/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	2240	ug/Kg	6.0	131-11-3	GC	08/07/96
8270B	ACENAPHTHYLENE	\$06013	Below MDL	2240	ug/Kg	6.0	208-96-8	GC	08/07/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	2240	ug/Kg	6.0	606-20-2	GC	08/07/96
8270B	3-NITROANILINE	\$06013	Below MDL	2240	ug/Kg	6.0	99-09-2	GC	08/07/96
8270B	ACENAPHTHENE	\$06013	Below MDL	2240	ug/Kg	6.0	83-32-9	GC	08/07/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	11199	ug/Kg	6.0	51-28-5	GC	08/07/96
8270B	4-NITROPHENOL	\$06013	Below MDL	11199	ug/Kg	6.0	100-02-7	GC	08/07/96
8270B	DIBENZOFURAN	\$06013	Below MDL	2240	ug/Kg	6.0	132-64-9	GC	08/07/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	2240	ug/Kg	6.0	121-14-2	GC	08/07/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	2240	ug/Kg	6.0	84-66-2	GC	08/07/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	2240	ug/Kg	6.0	7005-72-3	GC	08/07/96
8270B	FLUORENE	\$06013	Below MDL	2240	ug/Kg	6.0	86-73-7	GC	08/07/96
8270B	4-NITROANILINE	\$06013	Below MDL	2240	ug/Kg	6.0	100-01-6	GC	08/07/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	11199	ug/Kg	6.0	534-52-1	GC	08/07/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	2240	ug/Kg	6.0	86-30-6	GC	08/07/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	240	ug/Kg	6.0	101-55-3	GC	08/07/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	240	ug/Kg	6.0	118-74-1	GC	08/07/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	11199	ug/Kg	6.0	87-86-5	GC	08/07/96
8270B	PHENANTHRENE	\$06013	4129	2240	ug/Kg	6.0	85-01-8	GC	08/07/96
8270B	ANTHRACENE	\$06013	Below MDL	2240	ug/Kg	6.0	120-12-7	GC	08/07/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	2240	ug/Kg	6.0	84-74-2	GC	08/07/96
8270B	FLUORANTHENE	\$06013	4000	2240	ug/Kg	6.0	206-44-0	GC	08/07/96
8270B	PYRENE	\$06013	4072	2240	ug/Kg	6.0	129-00-0	GC	08/07/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	2240	ug/Kg	6.0	85-68-7	GC	08/07/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	4480	ug/Kg	6.0	91-94-1	GC	08/07/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	2240	ug/Kg	6.0	56-55-3	GC	08/07/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	2240	ug/Kg	6.0	117-81-7	GC	08/07/96
8270B	CHRYSENE	\$06013	Below MDL	2240	ug/Kg	6.0	218-01-9	GC	08/07/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	2240	ug/Kg	6.0	117-84-0	GC	08/07/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	2240	ug/Kg	6.0	205-99-2	GC	08/07/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	2240	ug/Kg	6.0	207-08-9	GC	08/07/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	2240	ug/Kg	6.0	50-32-8	GC	08/07/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	2240	ug/Kg	6.0	193-39-5	GC	08/07/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	2240	ug/Kg	6.0	53-70-3	GC	08/07/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	2240	ug/Kg	6.0	191-24-2	GC	08/07/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	35	%	REC	1.0	367-12-4	GC	08/07/96
8270B	PHENOL-D5 (SURR)	\$06013	34	%	REC	1.0	13127-88-3	GC	08/07/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	40	%	REC	1.0	4165-60-0	GC	08/07/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	51	%	REC	1.0	321-60-8	GC	08/07/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	68	%	REC	1.0	118-79-6	GC	08/07/96

Lab Sample ID AB36687
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time 07/30/96 16:00

Client Site # 29665
 Client Sample # 8101-TK100B-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/07/96			Batch 0807960004		
8270B	TERPHENYL-D14 (SURR)	\$06013	85	%	REC	1.0	1718-51-0	GC	08/07/96
8270B	CARBAZOLE	\$06013	Below MDL	2240	ug/Kg	6.0	86-74-8	GC	08/07/96
BTEX (GC) SOIL				Prep Date 08/08/96			Batch 080896BW		
8020A	BENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	71-43-2	DTA	08/08/96
8020A	TOLUENE	\$08006	23	1.1	ug/Kg	1.0	108-88-3	DTA	08/08/96
8020A	ETHYLBENZENE	\$08006	11	1.1	ug/Kg	1.0	100-41-4	DTA	08/08/96
8020A	XYLENES (TOTAL)	\$08006	57	1.1	ug/Kg	1.0	1330-20-7	DTA	08/08/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	71	%	REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	103	%	REC	1.0	460-00-4	DTA	08/08/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	108-90-7	DTA	08/08/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	95-50-1	DTA	08/08/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	541-73-1	DTA	08/08/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	106-46-7	DTA	08/08/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.1	ug/Kg	1.0	1634-04-4	DTA	08/08/96
				Prep Date 08/08/96			Batch 080896		
418.1	TPH (FTIR) SOIL	08008	139140	566	mg/Kg	100.0		JK	08/08/96
				Prep Date 08/05/96			Batch 080596		
3	% TOTAL SOLIDS SOIL (N/C)	09099	88.4	0.1	%	1.0		MN	08/05/96

Lab Sample ID AB36688
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time 07/31/96 10:00

Client Site # 29666
 Client Sample # 8101-TK94B-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/07/96			Batch 0807960004		
8270B	PHENOL	\$06013	Below MDL	377	ug/Kg	1.0	108-95-2	GC	08/07/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	377	ug/Kg	1.0	111-44-4	GC	08/07/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	377	ug/Kg	1.0	95-57-8	GC	08/07/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	377	ug/Kg	1.0	541-73-1	GC	08/07/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	377	ug/Kg	1.0	106-46-7	GC	08/07/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	377	ug/Kg	1.0	95-50-1	GC	08/07/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	377	ug/Kg	1.0	108-60-1	GC	08/07/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	377	ug/Kg	1.0	95-48-7	GC	08/07/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	377	ug/Kg	1.0	106-44-5	GC	08/07/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	377	ug/Kg	1.0	621-64-7	GC	08/07/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	377	ug/Kg	1.0	67-72-1	GC	08/07/96
8270B	NITROBENZENE	\$06013	Below MDL	377	ug/Kg	1.0	98-95-3	GC	08/07/96
8270B	ISOPHORONE	\$06013	Below MDL	377	ug/Kg	1.0	78-59-1	GC	08/07/96
8270B	2-NITROPHENOL	\$06013	Below MDL	754	ug/Kg	1.0	88-75-5	GC	08/07/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	377	ug/Kg	1.0	105-67-9	GC	08/07/96

Lab Sample ID AB36688
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time 07/31/96 10:00

Client Site # 29666
 Client Sample # 8101-TK94B-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/07/96		Batch 0807960004			
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	377	ug/Kg	1.0	111-91-1	GC	08/07/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	377	ug/Kg	1.0	120-83-2	GC	08/07/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	377	ug/Kg	1.0	120-82-1	GC	08/07/96
8270B	NAPHTHALENE	\$06013	Below MDL	377	ug/Kg	1.0	91-20-3	GC	08/07/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	377	ug/Kg	1.0	106-47-8	GC	08/07/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	377	ug/Kg	1.0	87-68-3	GC	08/07/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	754	ug/Kg	1.0	59-50-7	GC	08/07/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	377	ug/Kg	1.0	91-57-6	GC	08/07/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	377	ug/Kg	1.0	77-47-4	GC	08/07/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	377	ug/Kg	1.0	88-06-2	GC	08/07/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	377	ug/Kg	1.0	95-95-4	GC	08/07/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	377	ug/Kg	1.0	91-58-7	GC	08/07/96
8270B	2-NITROANILINE	\$06013	Below MDL	377	ug/Kg	1.0	88-74-4	GC	08/07/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	377	ug/Kg	1.0	131-11-3	GC	08/07/96
8270B	ACENAPHTHYLENE	\$06013	Below MDL	377	ug/Kg	1.0	208-96-8	GC	08/07/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	377	ug/Kg	1.0	606-20-2	GC	08/07/96
8270B	3-NITROANILINE	\$06013	Below MDL	377	ug/Kg	1.0	99-09-2	GC	08/07/96
8270B	ACENAPHTHENE	\$06013	446	377	ug/Kg	1.0	83-32-9	GC	08/07/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	1886	ug/Kg	1.0	51-28-5	GC	08/07/96
8270B	4-NITROPHENOL	\$06013	Below MDL	1886	ug/Kg	1.0	100-02-7	GC	08/07/96
8270B	DIBENZOFURAN	\$06013	Below MDL	377	ug/Kg	1.0	132-64-9	GC	08/07/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	377	ug/Kg	1.0	121-14-2	GC	08/07/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	377	ug/Kg	1.0	84-66-2	GC	08/07/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	377	ug/Kg	1.0	7005-72-3	GC	08/07/96
8270B	FLUORENE	\$06013	616	377	ug/Kg	1.0	86-73-7	GC	08/07/96
8270B	4-NITROANILINE	\$06013	Below MDL	377	ug/Kg	1.0	100-01-6	GC	08/07/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1886	ug/Kg	1.0	534-52-1	GC	08/07/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	377	ug/Kg	1.0	86-30-6	GC	08/07/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	377	ug/Kg	1.0	101-55-3	GC	08/07/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	377	ug/Kg	1.0	118-74-1	GC	08/07/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	1886	ug/Kg	1.0	87-86-5	GC	08/07/96
8270B	PHENANTHRENE	\$06013	5451	377	ug/Kg	1.0	85-01-8	GC	08/07/96
8270B	ANTHRACENE	\$06013	848	377	ug/Kg	1.0	120-12-7	GC	08/07/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	377	ug/Kg	1.0	84-74-2	GC	08/07/96
8270B	FLUORANTHENE	\$06013	6480	754	ug/Kg	2.0	206-44-0	GC	08/07/96
8270B	PYRENE	\$06013	4777	377	ug/Kg	1.0	129-00-0	GC	08/07/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	377	ug/Kg	1.0	85-68-7	GC	08/07/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	754	ug/Kg	1.0	91-94-1	GC	08/07/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	377	ug/Kg	1.0	56-55-3	GC	08/07/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	377	ug/Kg	1.0	117-81-7	GC	08/07/96
8270B	CHRYSENE	\$06013	1211	377	ug/Kg	1.0	218-01-9	GC	08/07/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	377	ug/Kg	1.0	117-84-0	GC	08/07/96
8270B	BENZO(B)FLUORANTHENE	\$06013	1120	377	ug/Kg	1.0	205-99-2	GC	08/07/96
8270B	BENZO(K)FLUORANTHENE	\$06013	537	377	ug/Kg	1.0	207-08-9	GC	08/07/96
8270B	BENZO(A)PYRENE	\$06013	633	377	ug/Kg	1.0	50-32-8	GC	08/07/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	494	377	ug/Kg	1.0	193-39-5	GC	08/07/96

Lab Sample ID AB36688
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time 07/31/96 10:00

Client Site # 29666
 Client Sample # 8101-TK94B-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/07/96		Batch 0807960004			
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	377	ug/Kg	1.0	53-70-3	GC	08/07/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	463	377	ug/Kg	1.0	191-24-2	GC	08/07/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	26	%	REC	1.0	367-12-4	GC	08/07/96
8270B	PHENOL-D5 (SURR)	\$06013	27	%	REC	1.0	13127-88-3	GC	08/07/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	57	%	REC	1.0	4165-60-0	GC	08/07/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	89	%	REC	1.0	321-60-8	GC	08/07/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	43	%	REC	1.0	118-79-6	GC	08/07/96
8270B	TERPHENYL-D14 (SURR)	\$06013	49	%	REC	1.0	1718-51-0	GC	08/07/96
8270B	CARBAZOLE	\$06013	1349	377	ug/Kg	1.0	86-74-8	GC	08/07/96
BTEX (GC) SOIL				Prep Date 08/08/96		Batch 080896BW			
8020A	BENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	71-43-2	DTA	08/08/96
8020A	TOLUENE	\$08006	Below MDL	1.1	ug/Kg	1.0	108-88-3	DTA	08/08/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	100-41-4	DTA	08/08/96
8020A	XYLENES (TOTAL)	\$08006	Below MDL	1.1	ug/Kg	1.0	1330-20-7	DTA	08/08/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	70	%	REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	73	%	REC	1.0	460-00-4	DTA	08/08/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	108-90-7	DTA	08/08/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	95-50-1	DTA	08/08/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	541-73-1	DTA	08/08/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	106-46-7	DTA	08/08/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.1	ug/Kg	1.0	1634-04-4	DTA	08/08/96
				Prep Date 08/08/96		Batch 080896			
418.1	TPH (FTIR) SOIL	08008	366	5.7	mg/Kg	1.0		JK	08/08/96
				Prep Date 08/05/96		Batch 080596			
160.3	% TOTAL SOLIDS SOIL (N/C)	09099	87.5	0.1	%	1.0		MN	08/05/96

Lab Sample ID AB36689
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time 07/31/96 10:15

Client Site # 29667
 Client Sample # 8101-TK94B-S2

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/07/96		Batch 0807960004			
8270B	PHENOL	\$06013	Below MDL	365	ug/Kg	1.0	108-95-2	GC	08/07/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	365	ug/Kg	1.0	111-44-4	GC	08/07/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	365	ug/Kg	1.0	95-57-8	GC	08/07/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	365	ug/Kg	1.0	541-73-1	GC	08/07/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	365	ug/Kg	1.0	106-46-7	GC	08/07/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	365	ug/Kg	1.0	95-50-1	GC	08/07/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	365	ug/Kg	1.0	108-60-1	GC	08/07/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	365	ug/Kg	1.0	95-48-7	GC	08/07/96

Lab Sample ID AB36689
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time 07/31/96 10:15

Client Site # 29667
 Client Sample # 8101-TK94B-S2

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution	CAS #	ANALYST	DATE OF
						Factor			ANALYSIS
SEMI (GC/MS) SOIL					Prep Date 08/07/96		Batch 0807960004		
8270B	4-METHYLPHENOL	\$06013	Below MDL	365	ug/Kg	1.0	106-44-5	GC	08/07/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	365	ug/Kg	1.0	621-64-7	GC	08/07/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	365	ug/Kg	1.0	67-72-1	GC	08/07/96
8270B	NITROBENZENE	\$06013	Below MDL	365	ug/Kg	1.0	98-95-3	GC	08/07/96
8270B	ISOPHORONE	\$06013	Below MDL	365	ug/Kg	1.0	78-59-1	GC	08/07/96
8270B	2-NITROPHENOL	\$06013	Below MDL	730	ug/Kg	1.0	88-75-5	GC	08/07/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	365	ug/Kg	1.0	105-67-9	GC	08/07/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	365	ug/Kg	1.0	111-91-1	GC	08/07/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	365	ug/Kg	1.0	120-83-2	GC	08/07/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	365	ug/Kg	1.0	120-82-1	GC	08/07/96
8270B	NAPHTHALENE	\$06013	Below MDL	365	ug/Kg	1.0	91-20-3	GC	08/07/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	365	ug/Kg	1.0	106-47-8	GC	08/07/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	365	ug/Kg	1.0	87-68-3	GC	08/07/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	730	ug/Kg	1.0	59-50-7	GC	08/07/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	365	ug/Kg	1.0	91-57-6	GC	08/07/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	365	ug/Kg	1.0	77-47-4	GC	08/07/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	365	ug/Kg	1.0	88-06-2	GC	08/07/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	365	ug/Kg	1.0	95-95-4	GC	08/07/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	365	ug/Kg	1.0	91-58-7	GC	08/07/96
8270B	2-NITROANILINE	\$06013	Below MDL	365	ug/Kg	1.0	88-74-4	GC	08/07/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	365	ug/Kg	1.0	131-11-3	GC	08/07/96
8270B	ACENAPHTHYLENE	\$06013	Below MDL	365	ug/Kg	1.0	208-96-8	GC	08/07/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	365	ug/Kg	1.0	606-20-2	GC	08/07/96
8270B	3-NITROANILINE	\$06013	Below MDL	365	ug/Kg	1.0	99-09-2	GC	08/07/96
8270B	ACENAPHTHENE	\$06013	Below MDL	365	ug/Kg	1.0	83-32-9	GC	08/07/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	1825	ug/Kg	1.0	51-28-5	GC	08/07/96
8270B	4-NITROPHENOL	\$06013	Below MDL	1825	ug/Kg	1.0	100-02-7	GC	08/07/96
8270B	DIBENZOFURAN	\$06013	Below MDL	365	ug/Kg	1.0	132-64-9	GC	08/07/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	365	ug/Kg	1.0	121-14-2	GC	08/07/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	365	ug/Kg	1.0	84-66-2	GC	08/07/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	365	ug/Kg	1.0	7005-72-3	GC	08/07/96
8270B	FLUORENE	\$06013	Below MDL	365	ug/Kg	1.0	86-73-7	GC	08/07/96
8270B	4-NITROANILINE	\$06013	Below MDL	365	ug/Kg	1.0	100-01-6	GC	08/07/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1825	ug/Kg	1.0	534-52-1	GC	08/07/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	365	ug/Kg	1.0	86-30-6	GC	08/07/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	365	ug/Kg	1.0	101-55-3	GC	08/07/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	365	ug/Kg	1.0	118-74-1	GC	08/07/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	1825	ug/Kg	1.0	87-86-5	GC	08/07/96
8270B	PHENANTHRENE	\$06013	2257	365	ug/Kg	1.0	85-01-8	GC	08/07/96
8270B	ANTHRACENE	\$06013	2146	365	ug/Kg	1.0	120-12-7	GC	08/07/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	365	ug/Kg	1.0	84-74-2	GC	08/07/96
8270B	FLUORANTHENE	\$06013	2754	365	ug/Kg	1.0	206-44-0	GC	08/07/96
8270B	PYRENE	\$06013	1984	365	ug/Kg	1.0	129-00-0	GC	08/07/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	365	ug/Kg	1.0	85-88-7	GC	08/07/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	730	ug/Kg	1.0	91-94-1	GC	08/07/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	365	ug/Kg	1.0	56-55-3	GC	08/07/96

Lab Sample ID AB36689
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time 07/31/96 10:15

Client Site # 29667
 Client Sample # 8101-TK94B-S2

THOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/07/96			Batch 0807960004		
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	365	ug/Kg	1.0	117-81-7	GC	08/07/96
8270B	CHRYSENE	\$06013	790	365	ug/Kg	1.0	218-01-9	GC	08/07/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	365	ug/Kg	1.0	117-84-0	GC	08/07/96
8270B	BENZO(B)FLUORANTHENE	\$06013	612	365	ug/Kg	1.0	205-99-2	GC	08/07/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	365	ug/Kg	1.0	207-08-9	GC	08/07/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	365	ug/Kg	1.0	50-32-8	GC	08/07/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	365	ug/Kg	1.0	193-39-5	GC	08/07/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	365	ug/Kg	1.0	53-70-3	GC	08/07/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	365	ug/Kg	1.0	191-24-2	GC	08/07/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	29	%	REC	1.0	367-12-4	GC	08/07/96
8270B	PHENOL-D5 (SURR)	\$06013	25	%	REC	1.0	13127-88-3	GC	08/07/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	58	%	REC	1.0	4165-60-0	GC	08/07/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	71	%	REC	1.0	321-60-8	GC	08/07/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	61	%	REC	1.0	118-79-6	GC	08/07/96
8270B	TERPHENYL-D14 (SURR)	\$06013	65	%	REC	1.0	1718-51-0	GC	08/07/96
8270B	CARBAZOLE	\$06013	1781	365	ug/Kg	1.0	86-74-8	GC	08/07/96
BTEX (GC) SOIL				Prep Date 08/08/96			Batch 080896BW		
8020A	BENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	71-43-2	DTA	08/08/96
8020A	TOLUENE	\$08006	Below MDL	1.1	ug/Kg	1.0	108-88-3	DTA	08/08/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	100-41-4	DTA	08/08/96
8020A	XYLENES (TOTAL)	\$08006	Below MDL	1.1	ug/Kg	1.0	1330-20-7	DTA	08/08/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	63	%	REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	63	%	REC	1.0	460-00-4	DTA	08/08/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	108-90-7	DTA	08/08/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	95-50-1	DTA	08/08/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	541-73-1	DTA	08/08/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	106-46-7	DTA	08/08/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.1	ug/Kg	1.0	1634-04-4	DTA	08/08/96
				Prep Date 08/08/96			Batch 080896		
418.1	TPH (FTIR) SOIL	08008	420	5.5	mg/Kg	1.0		JK	08/08/96
				Prep Date 08/05/96			Batch 080596		
160.3	% TOTAL SOLIDS SOIL (N/C)	09099	90.4	0.1	%	1.0		MN	08/05/96

Lab Sample ID AB36690
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time / / :

Client Site #
 Client Sample # SOIL METHOD BLANK

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution	CAS #	ANALYST	DATE OF
						Factor			ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/07/96		Batch 0807960004			
8270B	PHENOL	\$06013	Below MDL	330	ug/Kg	1.0	108-95-2	GC	08/07/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	330	ug/Kg	1.0	111-44-4	GC	08/07/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-57-8	GC	08/07/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	541-73-1	GC	08/07/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	106-46-7	GC	08/07/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	95-50-1	GC	08/07/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	330	ug/Kg	1.0	108-60-1	GC	08/07/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-48-7	GC	08/07/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	106-44-5	GC	08/07/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	330	ug/Kg	1.0	621-64-7	GC	08/07/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	330	ug/Kg	1.0	67-72-1	GC	08/07/96
8270B	NITROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	98-95-3	GC	08/07/96
8270B	ISOPHORONE	\$06013	Below MDL	330	ug/Kg	1.0	78-59-1	GC	08/07/96
8270B	2-NITROPHENOL	\$06013	Below MDL	660	ug/Kg	1.0	88-75-5	GC	08/07/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	105-67-9	GC	08/07/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	330	ug/Kg	1.0	111-91-1	GC	08/07/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	120-83-2	GC	08/07/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	120-82-1	GC	08/07/96
8270B	NAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-20-3	GC	08/07/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	106-47-8	GC	08/07/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	330	ug/Kg	1.0	87-68-3	GC	08/07/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	660	ug/Kg	1.0	59-50-7	GC	08/07/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-57-6	GC	08/07/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	330	ug/Kg	1.0	77-47-4	GC	08/07/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	88-06-2	GC	08/07/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-95-4	GC	08/07/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-58-7	GC	08/07/96
8270B	2-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	88-74-4	GC	08/07/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	131-11-3	GC	08/07/96
8270B	ACENAPHTHYLENE	\$06013	Below MDL	330	ug/Kg	1.0	208-96-8	GC	08/07/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	330	ug/Kg	1.0	606-20-2	GC	08/07/96
8270B	3-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	99-09-2	GC	08/07/96
8270B	ACENAPHTHENE	\$06013	Below MDL	330	ug/Kg	1.0	83-32-9	GC	08/07/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	51-28-5	GC	08/07/96
8270B	4-NITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	100-02-7	GC	08/07/96
8270B	DIBENZOFURAN	\$06013	Below MDL	330	ug/Kg	1.0	132-84-9	GC	08/07/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	330	ug/Kg	1.0	121-14-2	GC	08/07/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	84-66-2	GC	08/07/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	330	ug/Kg	1.0	7005-72-3	GC	08/07/96
8270B	FLUORENE	\$06013	Below MDL	330	ug/Kg	1.0	86-73-7	GC	08/07/96
8270B	4-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	100-01-6	GC	08/07/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	534-52-1	GC	08/07/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	330	ug/Kg	1.0	86-30-6	GC	08/07/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	330	ug/Kg	1.0	101-55-3	GC	08/07/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	118-74-1	GC	08/07/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	87-86-5	GC	08/07/96

Lab Sample ID AB36690
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time / / :

Client Site #
 Client Sample # SOIL METHOD BLANK

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/07/96			Batch 0807960004		
8270B	PHENANTHRENE	\$06013	Below MDL	330	ug/Kg	1.0	85-01-8	GC	08/07/96
8270B	ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	120-12-7	GC	08/07/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	84-74-2	GC	08/07/96
8270B	FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	208-44-0	GC	08/07/96
8270B	PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	129-00-0	GC	08/07/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	85-68-7	GC	08/07/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	660	ug/Kg	1.0	91-94-1	GC	08/07/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	56-55-3	GC	08/07/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	117-81-7	GC	08/07/96
8270B	CHRYSENE	\$06013	Below MDL	330	ug/Kg	1.0	218-01-9	GC	08/07/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	117-84-0	GC	08/07/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	205-99-2	GC	08/07/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	207-08-9	GC	08/07/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	50-32-8	GC	08/07/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	193-39-5	GC	08/07/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	53-70-3	GC	08/07/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	330	ug/Kg	1.0	191-24-2	GC	08/07/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	63	%	REC	1.0	367-12-4	GC	08/07/96
8270B	PHENOL-D5 (SURR)	\$06013	43	%	REC	1.0	13127-88-3	GC	08/07/96
OB	NITROBENZENE-D5 (SURR)	\$06013	45	%	REC	1.0	4165-60-0	GC	08/07/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	64	%	REC	1.0	321-60-8	GC	08/07/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	69	%	REC	1.0	118-79-6	GC	08/07/96
8270B	TERPHENYL-D14 (SURR)	\$06013	94	%	REC	1.0	1718-51-0	GC	08/07/96
8270B	CARBAZOLE	\$06013	Below MDL	330	ug/Kg	1.0	86-74-8	GC	08/07/96
BTX (GC) SOIL				Prep Date 08/08/96			Batch 080896BW		
8020A	BENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	71-43-2	DTA	08/08/96
8020A	TOLUENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-88-3	DTA	08/08/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	100-41-4	DTA	08/08/96
8020A	XYLENES (TOTAL)	\$08006	Below MDL	1.0	ug/Kg	1.0	1330-20-7	DTA	08/08/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	89	%	REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	92	%	REC	1.0	460-00-4	DTA	08/08/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-90-7	DTA	08/08/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	95-50-1	DTA	08/08/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	541-73-1	DTA	08/08/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	106-46-7	DTA	08/08/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.0	ug/Kg	1.0	1634-04-4	DTA	08/08/96
				Prep Date 08/08/96			Batch 080896		
418.1	TPH (FTIR) SOIL	08008	Below MDL	5.0	mg/Kg	1.0		ML	08/08/96

Lab Sample ID AB37060
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # MS

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/07/96			Batch 0807960004		
8270B	2-FLUOROPHENOL (SURR)	\$06013	64	%	REC	1.0	367-12-4	GC	08/07/96
8270B	PHENOL-D5 (SURR)	\$06013	67	%	REC	1.0	13127-88-3	GC	08/07/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	60	%	REC	1.0	4165-60-0	GC	08/07/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	73	%	REC	1.0	321-60-8	GC	08/07/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	86	%	REC	1.0	118-79-6	GC	08/07/96
8270B	TERPHENYL-D14 (SURR)	\$06013	85	%	REC	1.0	1718-51-0	GC	08/07/96

Lab Sample ID AB37061
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # MSD

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/07/96			Batch 0807960004		
8270B	2-FLUOROPHENOL (SURR)	\$06013	71	%	REC	1.0	367-12-4	GC	08/07/96
8270B	PHENOL-D5 (SURR)	\$06013	75	%	REC	1.0	13127-88-3	GC	08/07/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	70	%	REC	1.0	4165-60-0	GC	08/07/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	79	%	REC	1.0	321-60-8	GC	08/07/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	90	%	REC	1.0	118-79-6	GC	08/07/96
8270B	TERPHENYL-D14 (SURR)	\$06013	95	%	REC	1.0	1718-51-0	GC	08/07/96

Lab Sample ID AB37062
 Project # 4047
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # LCS

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/07/96			Batch 0807960004		
8270B	2-FLUOROPHENOL (SURR)	\$06013	59	%	REC	1.0	367-12-4	GC	08/07/96
8270B	PHENOL-D5 (SURR)	\$06013	55	%	REC	1.0	13127-88-3	GC	08/07/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	54	%	REC	1.0	4165-60-0	GC	08/07/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	65	%	REC	1.0	321-60-8	GC	08/07/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	85	%	REC	1.0	118-79-6	GC	08/07/96
8270B	TERPHENYL-D14 (SURR)	\$06013	94	%	REC	1.0	1718-51-0	GC	08/07/96

Lab Sample ID AB37090
Project # 4047
Project Name FT. STEWART
Sampling Date/Time / /

Client Site #
Client Sample # LCS

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 08/08/96		Batch 080896BW		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	93	% REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	97	% REC	1.0	460-00-4	DTA	08/08/96

Lab Sample ID AB37091
Project # 4047
Project Name FT. STEWART
Sampling Date/Time / /

Client Site #
Client Sample # MS

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 08/08/96		Batch 080896BW		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	62	% REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	64	% REC	1.0	460-00-4	DTA	08/08/96

Lab Sample ID AB37092
Project # 4047
Project Name FT. STEWART
Sampling Date/Time / /

Client Site #
Client Sample # MSD

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 08/08/96		Batch 080896BW		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	64	% REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	63	% REC	1.0	460-00-4	DTA	08/08/96



Certifying Scientist

Organics and Inorganics in Wastewater, Solids, and Wastes

NC-DEHNR 441, SC-DHEC 98013, GA, TN-DOH 02826, UT-DOH E-228, FL-DEP 940134 HRS E87511 (Water) HRS 87485 (Drinking Water), NY-DEH ELAP 11551,
WI-DNR 998014380
Radioactive Materials License ISO 9000 EPA ID EPA Reg Waste GA APHIS Fed Lab ID US Army Corps of
GA-DNR 1283-1 A2LA:0594-01 GA-00058 GA-0001011006 S-3966 58-188334 Engineers Validation

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(FBI 1110-1-26)

TAT Equiano

8/2

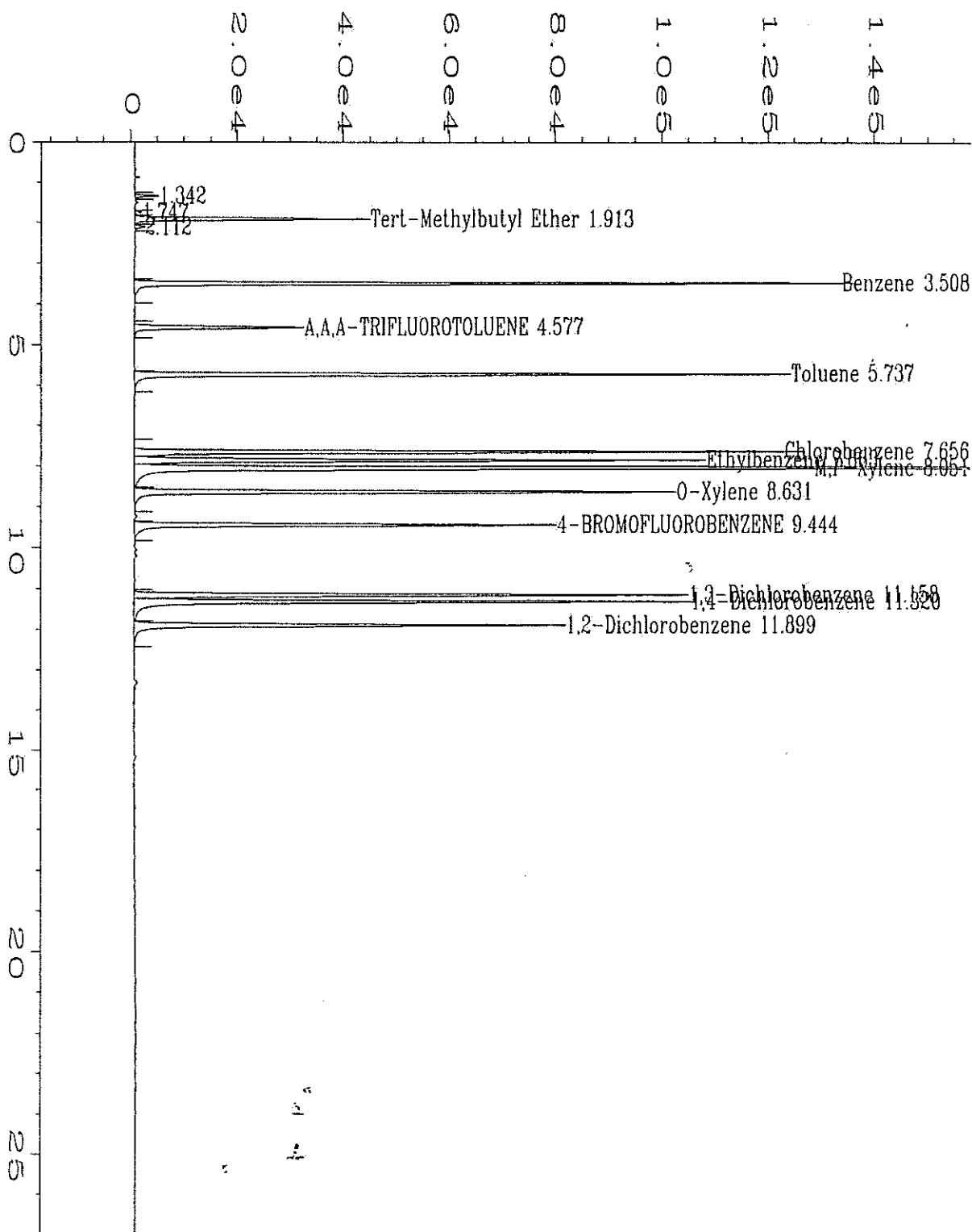
六五七

External Standard Report

Data File Name : C:\HPCHEM\1\DATA\b080896\30808F10.D
 Operator : Doug Anderson Page Number : 1
 Instrument : GC3 Vial Number : 10
 Sample Name : 20ppb 8020 ccv Injection Number : 1
 Run Time Bar Code: Sequence Line : 1
 Acquired on : 08 Aug 96 03:45 PM Instrument Method: 3B080196.MTH
 Report Created on: 08 Aug 96 04:12 PM Analysis Method : 3B080196.MTH
 Last Recalib on : 02 AUG 96 07:23 AM Sample Amount : 0
 Multiplier : 1 ISTD Amount :
 Sample Info : 16ppb surr

Sig. 1 in C:\HPCHEM\1\DATA\b080896\30808F10.D

Ret Time	Area	Type	Width	Ref#	ppb	Name
1.913	165872	PV	0.059	1	19.191	Tert-Methylbutyl Ether
3.508	488552	BB	0.056	1	18.631	Benzene
4.577	132511	BB	0.065	1	15.193	A,A,A-TRIFLUOROTOLUENE
5.737	473217	BB	0.060	1	18.631	Toluene
7.656	481070	BV	0.059	1	18.797	Chlorobenzene
7.863	432725	VV	0.062	1	18.901	Ethylbenzene
8.051	1005758	VV	0.065	1	38.097	M,P-Xylene
8.631	424038	VB	0.065	1	19.032	O-Xylene
9.444	317906	BV	0.062	1	15.874	4-BROMOFLUOROBENZENE
11.158	424381	BV	0.063	1	19.031	1,3-Dichlorobenzene
11.320	460777	VV	0.067	1	19.773	1,4-Dichlorobenzene
11.899	343457	VB	0.065	1	19.292	1,2-Dichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\b080896\30808F10.D	Page Number	: 1
Operator	: Doug Anderson	Vial Number	: 10
Instrument	: GC3	Injection Number	: 1
Sample Name	: 20ppb 8020 ccv	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 3B080196.MTH
Printed on	: 08 Aug 96 03:45 PM	Analysis Method	: 3B080196.MTH
Print Created on	: 08 Aug 96 04:12 PM	Sample Amount	: 0
Last Recalib on	: 02 AUG 96 07:23 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: 16ppb surr		

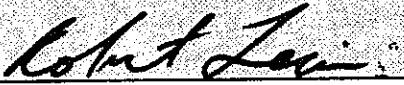
BTEX Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): I08040	
Batch No: 080896BW	Date Analyzed: 8/8/96
Lab File ID: 30808F11	Time Analyzed: 16:18
Lab Sample ID: AB36689	Level: Low
Instrument ID: GC3	Matrix: Soil

This method blank applies to the following samples, LCS, MS, and MSD:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	NA	AB37090 LCS	30808F12	8/8/96
2	NA	AB37091 MS	30808F13	8/8/96
3	NA	AB37092 MSD	30808F14	8/8/96
4	8101-TK100A-S1	AB36686	30808F17	8/8/96
5	8101-TK100B-S1	AB36687	30808F20	8/8/96
6	8101-TK94B-S1	AB36688	30808F18	8/8/96
7	8101-TK94B-S2	AB36689	30808F19	8/8/96
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

NA = Not Applicable


 QA/QC Officer

Comments:

Soil BTEX MS/MSD Recovery

Lab Name: EcoSys, Inc.
 Ledger No: 108040
 Batch No: 080896BW
 Lab File ID: 30808F13/30808F14

Client: ACE-SAD
 Matrix Spike/Lab Sample No: AB36628 REF
 AB37091 MS
 AB37092 MSD

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	MS % Recovery	#	QC Limits Recovery
Benzene	20	ND	14	68		40-160
Toluene	20	ND	13	66		40-160
Ethylbenzene	20	ND	13	63		40-160
m,p-Xylene	40	ND	25	63		40-160
o-Xylene	20	ND	13	64		40-160

Compound	Spike Added (ug/Kg)	MSD Conc (ug/Kg)	MSD % Recovery	#	% RPD	#	RPD	QC Limits Recovery
Benzene	20	13	66		3		30	40-160
Toluene	20	13	64		3		30	40-160
Ethylbenzene	20	12	61		4		30	40-160
m,p-Xylene	40	24	60		6		30	40-160
o-Xylene	20	12	61		4		30	40-160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ND = Not Detected

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

Robert Ferri

QA/QC Officer

Comments: _____

BTEX LCS Recoveries (Soil)

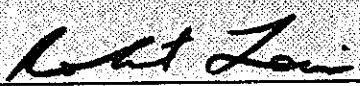
Lab Name: EcoSys, Inc.
 Ledger No: 108040
 Batch No: 080896BW
 Lab File ID: 30808F12

Client: ACE-SAD
 Laboratory Control Sample No: AB37090
 Level (Low/Med): Low
 Matrix: Soil

Compound	Spike Added (ug/Kg)	LCS Conc (ug/Kg)	LCS % Recovery	#	QC Limits Recovery
Benzene	20	21	103		40-160
Toluene	20	21	103		40-160
Ethylbenzene	20	21	103		40-160
m,p-Xylene	40	41	103		40-160
o-Xylene	20	21	103		40-160

* Values outside of QC limits
 ND = Not Detected

Spike Recovery: 0 out of 5 outside limits


 QA/QC Officer

Comments: _____

BTEX Surrogate Recovery Summary

Client: ACE-SAD
Matrix: Soil
Level: Low

[illegible]

Surrogate Recovery Limits: 40-160%

Column to be used to flag recovery values

* Values outside of required QC limits

ND = Not Detected

DO = Diluted Out

Robert Lewis

QA/QC Officer

Comments:

[illegible]

SemiVolatiles DFTPP

Lab Name: EcoSys, Inc.Client: ACE-SADLedger No: 108040DFTPP Injection Date: 7/31/96Lab File ID: DFTPP073196DFTPP Injection Time: 9:15Instrument ID: MSD-2Batch Number: 0807960004

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.2
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	63.3 (1)
70	Less than 2.0% of mass 69	0.6
127	40.0 - 60.0% of mass 198	50.7
197	Less than 1.0% of mass 198	0.0 (1)
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	18.3
365	Greater than 1% of mass 198	1.5
441	Present, but less than mass 443	81.6
442	Greater than 40% of mass 198	50.5
443	17.0 - 23.0% of mass 442	19.0 (2)

1-Value is % mass 69

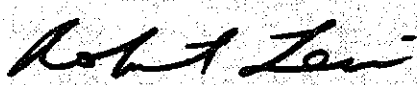
2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	01 STD	INITIAL CAL-2	BNA0201002	07/31/96	9:46 AM
	02 STD	INITIAL CAL-3	BNA0301003	07/31/96	10:34 AM
	03 STD	INITIAL CAL-4	BNA0601006	07/31/96	1:17 PM
	04 STD	INITIAL CAL-5	BNA0401004	07/31/96	11:29 AM
	05 STD	INITIAL CAL-6	BNA0501005	07/31/96	12:22 PM
	06				
	07				
	08				

NA: Not Applicable

Comments:


 QA/QC OFFICER

Ecosys, Inc.

Data file : /chem/msd_2.i/2-073196.b/dftpp073196.d
Lab. Id. : DFTPP02
Inj Date : 31-JUL-96 09:15 Autotune Date: 31-Jul-96 09:13:5
Operator : GORDON Inst ID: msd_2.i
Smp Info : 50NG of dft-05-39
Misc Info : TUNE FOR INSTRUMENT msd2.i
Comment :
Method : /chem/msd_2.i/2-073196.b/dftpp288.m
Meth Date : 31-Jul-1996 09:17 target
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.000 Target Version: Target 2.20
Integrator: HP RTE Compound Sublist: all.sub
Sample Type: WATER

		CONCENTRATIONS				
		ON-COL	FINAL			
RT (REL RT)	MASS	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO	
				CAS #: 5074-71-5		
dftpp					100.00(Q)	
7.915(0.000)	198	338368		0.00-	0.00	55.20
7.915(0.000)	51	186776		0.00-	0.00	0.00
7.915(0.000)	68	0		0.00-	0.00	65.33
7.915(0.000)	69	221048		0.00-	0.00	0.59
7.915(0.000)	70	1312		0.00-	0.00	50.53
7.915(0.000)	127	170984		0.00-	0.00	0.00
7.915(0.000)	197	0		0.00-	0.00	6.41
7.915(0.000)	199	21699		0.00-	0.00	19.24
7.915(0.000)	275	65117		0.00-	0.00	1.73
7.915(0.000)	365	5853		0.00-	0.00	87.23
7.915(0.000)	441	33738		0.00-	0.00	61.78
7.915(0.000)	442	209048		0.00-	0.00	18.50
7.915(0.000)	443	38679		0.00-	0.00	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Ecosys, Inc.

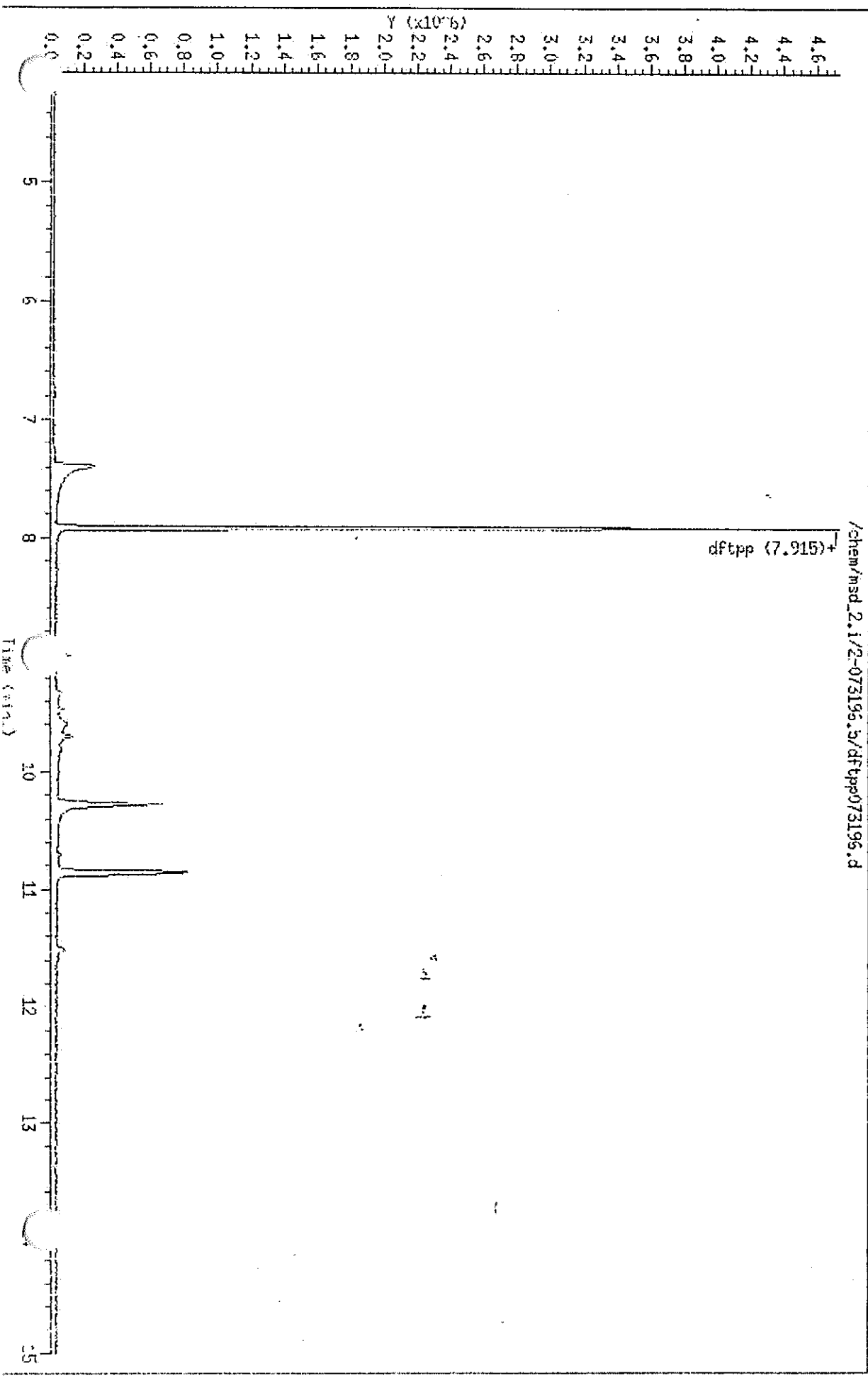
TARGET COMPOUNDS

Client Name:	Client SDG: 2-073196.b
Client Sample ID: DFTPP02	Sample Date:
Sample Location:	Sample Point:
Lab Sample ID: DFTPP02	Date Received:
Sample Type: WATER	
Analysis Type: SU	Level: LOW
Data Type: MS DATA	Column Number: 1
Misc Info: TUNE FOR INSTRUMENT msd2.i	

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/KG) ug/L	Q
5074-71-5-----dftpp		0.01	
=====		=====	=====

Data File: /chem/msd_2.1/2-073196.b/dftpp073196.d
Date : 31-Jul-96 09:15
Instrument : risc_2.1
Sample ID : DFTFP02
Column phase :
Volume Injected (ul) : 1.0

Column diameter : 2.00



Date: 31-JUL-96 09:15

Instrument: msd_2.1

Sample ID: DFTPP02

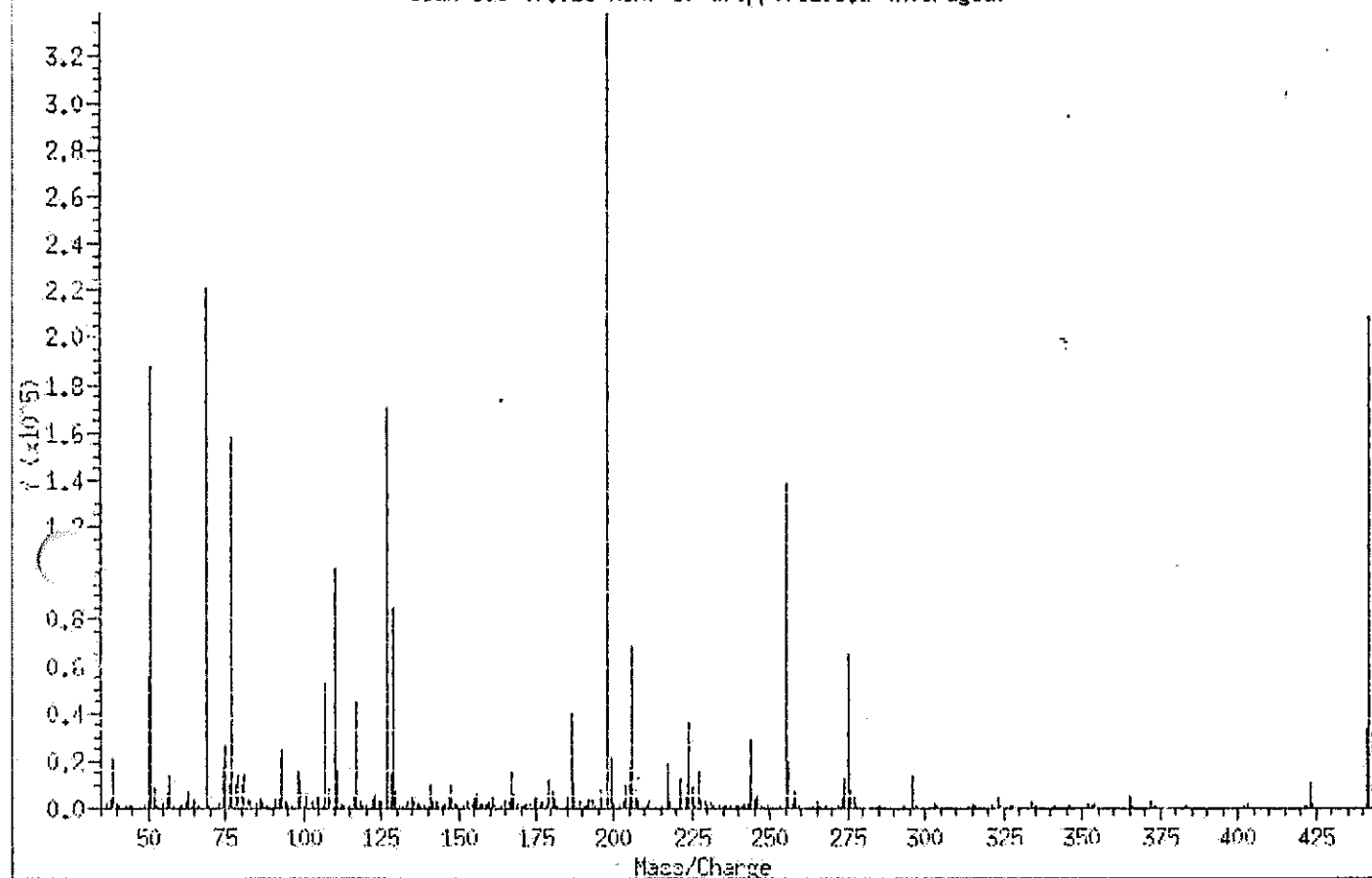
Column phase:

Column diameter: 2.00

Volume Injected (uL): 1.0

1 dftpp

Scan 395 (7.915 min) of dftpp073196.d (Averaged)



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
199	Base Peak, 100% relative abundance	100.0
51	Mass 51 relative abundance	55.2
68	Mass 68 relative abundance	0.0
69	Mass 69 relative abundance	65.3
70	Mass 70 relative abundance	0.6
127	Mass 127 relative abundance	50.5
197	Mass 197 relative abundance	0.0
199	Mass 199 relative abundance	6.4
275	Mass 275 relative abundance	19.2
365	Mass 365 relative abundance	1.7
441	Mass 441 relative abundance	97.2
442	Mass 442 relative abundance	61.8
443	Mass 443 relative abundance	18.5

Date : 31-JUL-96 09:15

Instrument : msd_2.1

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

Spectrum: Scan 395-397 (7.915 min) Subtraction Scan 392

Base Peak: 198.00

Number of mass peaks: 295

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
37.00	1295	119.00	587	195.00	446	277.00	4798
38.00	3354	120.00	695	196.00	7828	278.00	892
39.00	20347	121.00	231	198.00	338368	279.00	129
40.00	930	122.00	3519	199.00	21699	283.00	439
41.00	549	123.00	5590	200.00	1480	284.00	175
42.00	74	124.00	2372	201.00	1120	285.00	732
43.00	92	125.00	2851	203.00	2460	287.00	72
44.00	539	127.00	170984	204.00	9699	289.00	184
45.00	945	128.00	14110	205.00	17319	290.00	190
46.00	195	129.00	84677	206.00	67951	291.00	85
48.00	376	130.00	6956	207.00	8131	292.00	260
49.00	1360	131.00	874	208.00	2585	293.00	938
50.00	54647	132.00	493	209.00	814	296.00	13606
51.00	186776	133.00	491	210.00	1200	297.00	1009
52.00	8714	134.00	2133	211.00	2795	301.00	245
53.00	168	135.00	5940	212.00	164	302.00	264
55.00	1086	136.00	2260	213.00	209	303.00	1620
56.00	6287	137.00	2062	214.00	110	304.00	621
57.00	13031	138.00	519	215.00	867	308.00	153
58.00	455	139.00	428	216.00	445	309.00	105
60.00	548	140.00	1102	217.00	19386	313.00	103
61.00	1731	141.00	9920	218.00	2620	314.00	860
62.00	3082	142.00	2989	219.00	293	315.00	1518
63.00	7100	143.00	2506	221.00	13069	316.00	906
64.00	897	144.00	496	223.00	4108	317.00	192
65.00	2890	145.00	500	224.00	35032	321.00	469
66.00	257	146.00	1609	225.00	9094	322.00	183
67.00	373	147.00	5009	226.00	793	323.00	4528
69.00	221048	148.00	9505	227.00	15823	324.00	790
70.00	1312	149.00	2073	228.00	2298	325.00	74
73.00	1696	150.00	714	229.00	2667	326.00	87
74.00	16731	151.00	832	230.00	344	327.00	708
75.00	26638	153.00	2841	231.00	1392	328.00	462
76.00	9513	154.00	2234	232.00	504	332.00	425
77.00	157039	155.00	4489	233.00	197	333.00	427

Date : 31-JUL-96 09:15

Instrument : msd_2.1

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

Spectrum: Scan 395-397 (7.915 min) Subtraction Scan 392

Base Peak: 198.00

Number of mass peaks: 295

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
78.00	9489	156.00	6182	234.00	928	334.00	3082
79.00	13018	157.00	1524	235.00	1167	335.00	839
80.00	9596	158.00	1654	236.00	616	336.00	181
81.00	14199	159.00	1473	237.00	1107	341.00	617
82.00	3589	160.00	2871	238.00	124	342.00	188
83.00	2430	161.00	4169	239.00	684	346.00	849
84.00	418	162.00	995	240.00	560	347.00	99
85.00	2239	163.00	382	241.00	755	351.00	96
86.00	4021	164.00	233	242.00	1782	352.00	1306
87.00	2013	165.00	2697	245.00	2064	353.00	1084
88.00	543	166.00	2808	244.00	28648	354.00	1591
89.00	424	167.00	15004	245.00	3631	355.00	298
90.00	99	168.00	6338	246.00	5670	365.00	5853
91.00	3411	169.00	1472	247.00	1169	366.00	746
92.00	3640	170.00	782	248.00	442	370.00	196
93.00	24023	171.00	808	249.00	934	371.00	398
94.00	1410	172.00	1564	250.00	94	372.00	2542
95.00	251	173.00	1581	251.00	268	373.00	623
96.00	1226	174.00	3431	252.00	345	383.00	786
98.00	15791	175.00	5413	253.00	743	384.00	185
99.00	12000	176.00	1635	255.00	138506	390.00	274
100.00	1142	177.00	2615	256.00	19945	391.00	236
101.00	6202	178.00	1067	257.00	1437	401.00	121
102.00	425	179.00	11569	258.00	7076	402.00	940
103.00	2329	180.00	7084	259.00	1328	403.00	1469
104.00	4551	181.00	3745	260.00	188	404.00	363
105.00	4264	182.00	812	261.00	230	405.00	105
106.00	106	183.00	396	263.00	226	420.00	109
107.00	52296	184.00	1339	264.00	106	421.00	1194
108.00	8195	185.00	5435	265.00	2868	422.00	1308
110.00	102362	186.00	39309	267.00	240	423.00	10623
111.00	15564	187.00	10897	268.00	44	424.00	2018
112.00	1813	188.00	1172	269.00	101	425.00	294
113.00	1015	189.00	2394	271.00	451	441.00	33730
114.00	92	190.00	510	272.00	518	442.00	209048

Date : 31-JUL-96 09:15

Instrument : msd_2.i

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

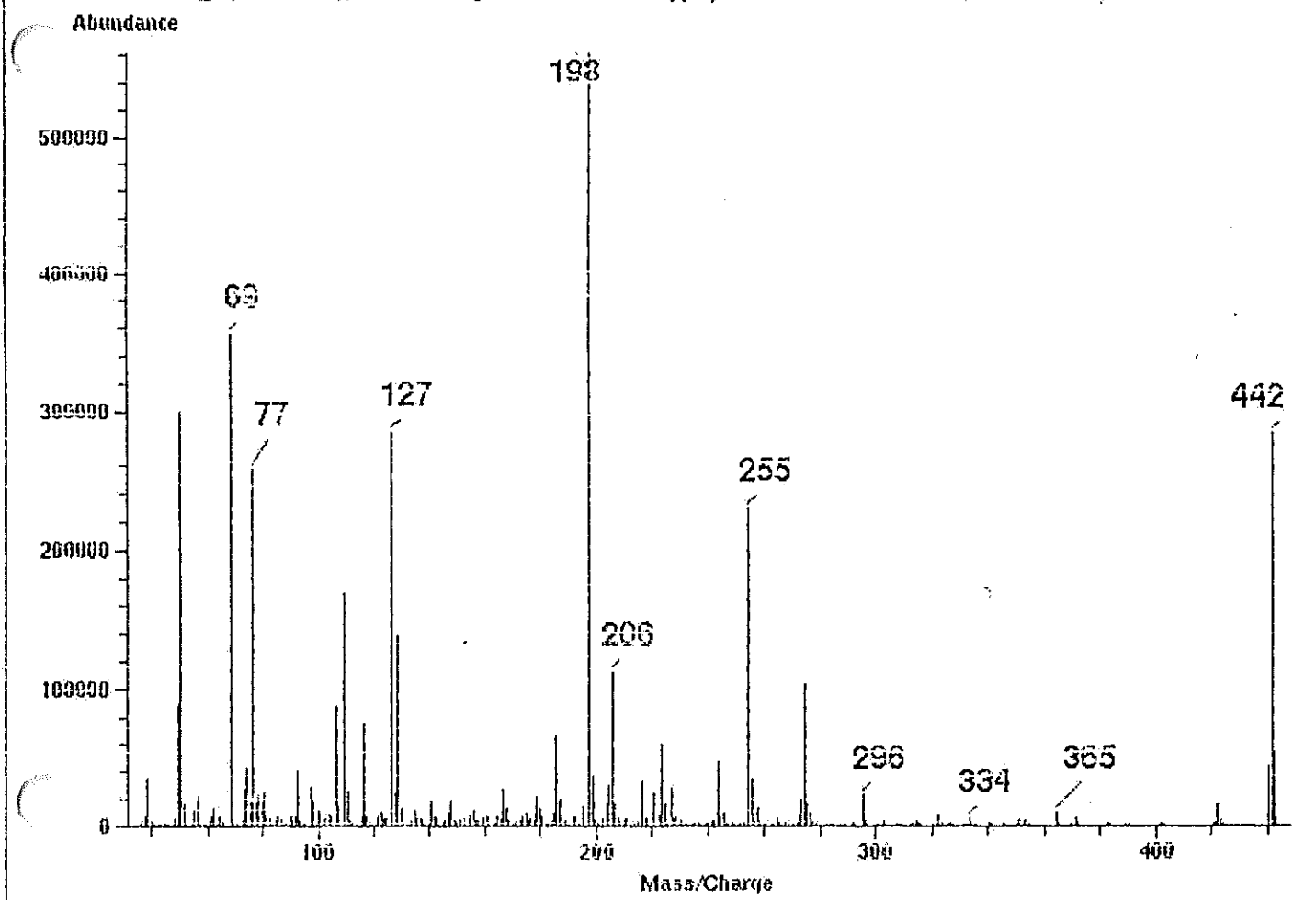
Spectrum: Scan 395-397 (7.915 min) Subtraction Scan 392

Base Peak: 198.00

Number of mass peaks: 295

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
115.00	443	191.00	1221	273.00	4259	443.00	38679
116.00	3856	192.00	3510	274.00	12212	444.00	3670
117.00	44576	193.00	3780	275.00	65117	445.00	136
118.00	3079	194.00	904	276.00	8306		

Scan 396 (7.915 min) of dflpp073196.d
msd_2 (ms5971-2); /chem/config/dvc/ms5971-2/dflpp.u; Tuned at 09:13 AM EDT on Wed Jul 31, 1996



Mass	Ion abundance criteria	%relative abundance
51	30.0 - 60.0% of mass 198	53.2
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance is	63.3
70	Less than 2.0% of mass 69	0.6
127	40.0 to 60.0% of mass 198	50.7
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	18.3
365	Greater than 1% of mass 198	1.5
441	Present, but less than mass 443	81.6
442	Greater than 40.0% of mass 198	50.5
443	17.0 - 23.0% of mass 442	19.0

Ecosys, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-MAY-93 15:51
 End Cal Date : 31-JUL-1996 13:17
 Quant Method : ISTD
 Cal Curve Type : Averaged
 Target Version : Target 2.20
 Integrator : HP RTE
 Method file : /chem/msd_2.i/2-073196.b/MA-BNA.m
 Cal Date : 01-Aug-1996 06:42 target

Calibration File Names:

Level 2: /chem/msd_2.i/2-073196.b/BNA0201002.d
 Level 3: /chem/msd_2.i/2-073196.b/BNA0301003.d
 Level 4: /chem/msd_2.i/2-073196.b/BNA0601006.d
 Level 5: /chem/msd_2.i/2-073196.b/BNA0401004.d
 Level 6: /chem/msd_2.i/2-073196.b/BNA0501005.d

Compound	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	1% RSD/R^2
2 Aniline	0.664671	1.065651	1.005731	1.451251	1.378491	1.113161	28.3951
4 Phenol **	0.927431	1.022611	1.114321	1.166211	1.196291	1.085371	10.1511
5 Bis(2-chloroethyl) ether	1.301831	1.081181	1.219101	1.179901	1.226251	1.201651	6.7011
6 2-Chlorophenol	1.161731	1.220241	1.256661	1.455971	1.319281	1.282771	8.7651
7 1,3-Dichlorobenzene	1.460411	1.470161	1.537751	1.542181	1.546831	1.511471	2.8061
9 1,4-Dichlorobenzene **	1.462661	1.501791	1.562821	1.590461	1.635921	1.550731	4.4601
10 1,2-Dichlorobenzene	1.388791	1.400591	1.467531	1.497261	1.545621	1.459961	4.5141
11 Benzyl alcohol	0.779781	0.920021	0.933841	0.906451	0.841791	0.876381	7.3591
12 2-Methylphenol	0.811761	0.868211	0.908541	1.079491	0.991011	0.931801	11.2961
13 Bis(2-chloroisopropyl) ether	0.907761	0.918531	0.979681	1.168411	1.129561	1.020791	11.8521
14 N-Nitrosodi-n-propylamine *	0.707711	0.693371	0.714801	0.687871	0.691551	0.699061	1.6571
15 4-Methylphenol	0.767991	0.877731	0.950131	1.118571	1.049091	0.952701	14.5201
16 Hexachloroethane	0.639691	0.643931	0.668621	0.685811	0.716901	0.670991	4.7391
18 Nitrobenzene	0.353901	0.391781	0.408171	0.421601	0.415131	0.398121	6.8071
19 Isophorone	0.673251	0.695821	0.727051	0.610491	0.708921	0.683111	6.5991
20 2-Nitrophenol **	0.228711	0.257521	0.271431	0.273291	0.295281	0.265251	9.2341
21 2,4-Dimethylphenol	0.327251	0.385641	0.415781	0.341821	0.386451	0.371391	9.7301
22 Bis(2-chloroethoxy)methane	0.359891	0.376011	0.403601	0.348131	0.393701	0.376271	6.1051
23 2,4-Dichlorophenol **	0.284751	0.336551	0.337171	0.307181	0.299661	0.313061	7.4021
24 Benzoic acid	0.220301	0.182361	0.194241	0.254531	0.239561	0.218201	13.8231
25 1,2,4-Trichlorobenzene	0.368121	0.383521	0.394181	0.381811	0.397161	0.384961	2.9891
27 Naphthalene	1.094111	1.130781	1.187251	1.167541	1.157971	1.147531	3.1481
28 4-Chloroaniline	0.260201	0.314191	0.332181	0.407791	0.375521	0.337981	16.8231
29 Hexachlorobutadiene **	0.227201	0.222301	0.225181	0.219811	0.224101	0.223721	1.2591
30 4-Chloro-3-methylphenol **	0.326261	0.343101	0.366661	0.367811	0.345211	0.349811	5.0111
31 2-Methylnaphthalene	0.731581	0.745511	0.769391	0.724671	0.752421	0.744721	2.3671
32 Hexachlorocyclopentadiene *	0.203491	0.254601	0.255471	0.284061	0.298141	0.259151	14.0101
33 2,4,6-Trichlorophenol **	0.259441	0.303611	0.332181	0.361731	0.350821	0.321561	12.7891
34 2,4,5-Trichlorophenol	0.333081	0.356231	0.374891	0.395291	0.347411	0.361381	6.7141

Ecosys, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-MAY-93 15:51
End Cal Date : 31-JUL-1996 13:17
Quant Method : ISTD
Cal Curve Type : Averaged
Target Version : Target 2.20
Integrator : HP RTE
Method file : /chem/msd_2.i/2-073196.b/MA-BNA.m
Cal Date : 01-Aug-1996 06:42 target

Calibration File Names:
Level 2: /chem/msd_2.i/2-073196.b/BNA0201002.d
Level 3: /chem/msd_2.i/2-073196.b/BNA0301003.d
Level 4: /chem/msd_2.i/2-073196.b/BNA0601006.d
Level 5: /chem/msd_2.i/2-073196.b/BNA0401004.d
Level 6: /chem/msd_2.i/2-073196.b/BNA0501005.d

Compound	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD/R^2
2-Chloronaphthalene	1.12479	1.18116	1.23548	1.21694	1.24983	1.20164	4.166
37 2-Nitroaniline	0.31532	0.31374	0.32014	0.32646	0.29772	0.31468	3.399
38 Dimethyl phthalate	1.53443	1.39211	1.53044	1.54900	1.52436	1.50607	4.272
39 2,6-Dinitrotoluene	0.32402	0.33601	0.30488	0.28565	0.31131	0.31237	6.128
42 Acenaphthylene	1.70680	1.83876	1.89627	1.88086	1.92512	1.84956	4.633
41 3-Nitroaniline	0.20153	0.10292	0.15493	0.22854	0.16383	0.17035	28.130
43 Acenaphthene **	1.17690	1.20977	1.20593	1.24295	1.25779	1.21867	2.629
44 2,4-Dinitrophenol *	++++	0.07469	0.11086	0.13015	0.13043	0.11153	23.503
47 2,4-Dinitrotoluene	0.35910	0.39177	0.42081	0.38998	0.42362	0.39706	6.650
45 4-Nitrophenol *	0.11579	0.12201	0.16167	0.14751	0.12335	0.13407	14.621
46 Dibenzofuran	1.54299	1.60570	1.66028	1.68959	1.71874	1.64346	4.259
48 Diethyl phthalate	1.57139	1.47849	1.61389	1.53164	1.48834	1.53675	3.698
50 Fluorene	1.15400	1.25010	1.28855	1.34247	1.38706	1.28444	6.975
49 4-Chlorophenyl phenyl ether	0.60238	0.61464	0.62956	0.65278	0.67651	0.63518	4.688
52 4-Nitroaniline	0.11718	0.12711	0.13126	0.13647	0.14422	0.13125	7.720
51 4,6-Dinitro-2-methylphenol	0.07389	0.09802	0.11428	0.13540	0.13392	0.11111	23.283
53 N-Nitrosodiphenylamine **	0.47209	0.44330	0.40617	0.41486	0.37711	0.42271	8.592
54 1,2-Diphenylhydrazine	2.12393	2.09748	2.04161	2.02511	2.17141	2.09191	2.865
56 4-Bromophenyl phenyl ether	0.29573	0.30323	0.28802	0.31305	0.29834	0.29967	3.098
57 Hexachlorobenzene	0.33781	0.33608	0.32286	0.33314	0.33927	0.33383	1.961
58 Pentachlorophenol **	0.10790	0.10803	0.12565	0.14551	0.12921	0.12326	12.854
60 Phenanthrene	1.21068	1.23195	1.36382	1.46502	1.45517	1.34533	8.929
61 Anthracene	1.18514	1.20530	1.23675	1.29740	1.29147	1.24321	4.045
62 Carbazole	0.75283	0.56202	0.55738	0.72086	0.58909	0.63643	14.635
Di-n-butyl phthalate	2.04394	2.00785	1.96648	2.13475	1.87178	2.00496	4.835
Fluoranthene **	1.01621	1.03898	1.22756	1.22107	1.22142	1.14505	9.393
65 Pyrene	2.39729	2.40590	1.99877	2.01945	2.05139	2.17456	9.571
67 Butyl benzyl phthalate	1.52748	1.45777	1.26894	1.36805	1.23604	1.37166	8.977
68 Di(2-ethylhexyl) adipate	1.25841	1.28324	1.06330	1.20481	1.11429	1.18481	7.922

Ecosys, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-MAY-93 15:51
 End Cal Date : 31-JUL-1996 13:17
 Quant Method : ISTD
 Cal Curve Type : Averaged
 Target Version : Target 2.20
 Integrator : HP RTE
 Method file : /chem/msd_2.i/2-073196.b/MA-BNA.m
 Cal Date : 01-Aug-1996 06:42 target

Calibration File Names:

Level 2: /chem/msd_2.i/2-073196.b/BNA0201002.d
 Level 3: /chem/msd_2.i/2-073196.b/BNA0301003.d
 Level 4: /chem/msd_2.i/2-073196.b/BNA0601006.d
 Level 5: /chem/msd_2.i/2-073196.b/BNA0401004.d
 Level 6: /chem/msd_2.i/2-073196.b/BNA0501005.d

Compound	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD/R ²
67 3,3'-Dichlorobenzidine	0.17801	0.12933	0.13336	0.14203	0.12978	0.14250	14.380
71 Benz(a)anthracene	1.14772	1.23207	1.26699	1.29354	1.31018	1.25010	5.152
70 Bis(2-ethylhexyl) phthalate	2.30514	2.18057	1.92232	2.30296	1.88546	2.11929	9.598
73 Chrysene	1.17939	1.15770	1.15993	1.12971	1.18142	1.16163	1.798
74 Di-n-octyl phthalate **	5.96630	5.80127	6.04103	6.44683	5.57462	5.96601	5.413
75 Benzo(b)fluoranthene	1.46153	1.64385	1.72229	1.84736	2.01947	1.73890	12.088
76 Benzo(k)fluoranthene	2.05495	1.92860	2.15527	1.92126	1.76823	1.96566	7.470
77 Benzo(a)pyrene **	1.33555	1.42128	1.45451	1.44299	1.48508	1.42788	3.958
79 Indeno(1,2,3-cd)pyrene	1.00556	1.17424	1.10880	1.03513	1.05039	1.07482	6.243
80 Dibenz(a,h)anthracene	0.79569	0.92959	0.90776	0.98283	1.01363	0.92590	9.074
81 Benzo(g,h,i)perylene	0.91354	1.03065	1.05425	1.01117	1.03272	1.00847	5.475
1 2-Fluorophenol	1.07719	1.03327	1.06103	1.25352	1.13636	1.11227	7.867
3 Phenol-d5	0.91115	1.04258	1.04072	1.12015	1.19510	1.06194	9.953
17 Nitrobenzene-d5	0.40403	0.41454	0.43224	0.43902	0.43268	0.42450	3.446
35 2-Fluorobiphenyl	1.38256	1.40234	1.44907	1.48808	1.49777	1.44597	3.321
55 2,4,6-Tribromophenol	0.12096	0.13033	0.14170	0.15114	0.14271	0.13737	8.580
66 Terphenyl-d14	1.48872	1.55202	1.37206	1.43639	1.39074	1.44799	5.082

SemiVolatiles DFTPP

Lab Name: EcoSys, Inc.Client: ACE-SADLedger No: 108040DFTPP Injection Date: 8/7/96Lab File ID: DFTPP080796DFTPP Injection Time: 14:55Instrument ID: MSD-2Batch Number: 0807960004

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.6
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	61.4 (1)
70	Less than 2.0% of mass 69	0.4
127	40.0 - 60.0% of mass 198	48.5
197	Less than 1.0% of mass 198	0.0 (1)
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	20.4
365	Greater than 1% of mass 198	1.9
441	Present, but less than mass 443	83.8
442	Greater than 40% of mass 198	58.3
443	17.0 - 23.0% of mass 442	18.8 (2)

1-Value is % mass 69

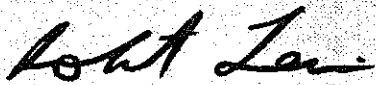
2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	01 NA	CCV	BNA0101001	08/07/96	3:21 PM
	02 NA	AB36690 MB	BNA0201002	08/07/96	4:08 PM
	03 NA	AB37062 LCS	BNA0301003	08/07/96	5:02 PM
	04 NA	AB37060 MS	BNA0501005	08/07/96	6:53 PM
	05 NA	AB37061 MSD	BNA0601006	08/07/96	7:48 PM
	06 8101-TK100A-S1	AB36686	BNA0701007	08/07/96	8:42 PM
	07 8101-TK100B-S1	AB36687	BNA0801008	08/07/96	9:33 PM
	08 8101-TK94B-S1	AB36688	BNA0901009	08/07/96	10:31 PM
	09 8101-TK94B-S2	AB36689	BNA1001010	08/07/96	11:21 PM

NA: Not Applicable

Comments:


 QA/QC OFFICER

Ecosys, Inc.

Data file : /chem/msd_2.i/2-080796.b/DFTPP2-8796.d
Lab. Id. : DFTPP02
Inj Date : 07-AUG-96 14:55 Autotune Date: 31-Jul-96 09:13:5
Operator : GORDON Inst ID: msd_2.i
Smp Info : 50NG of dft-05-39
Misc Info : TUNE FOR INSTRUMENT msd2.i
Comment :
Method : /chem/msd_2.i/2-080796.b/dftpp288.m
Meth Date : 07-Aug-1996 07:09
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.000 Target Version: Target 2.20
Integrator: HP RTE Compound Sublist: all.sub
Sample Type: WATER

		CONCENTRATIONS			
		ON-COL	FINAL		
RT (REL RT)	MASS	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp				CAS #: 5074-71-5	
7.904(0.000)	198	354858			100.00(Q)
7.904(0.000)	51	189640		0.00- 0.00	53.44
7.904(0.000)	68	0		0.00- 0.00	0.00
7.904(0.000)	69	220032		0.00- 0.00	62.01
7.904(0.000)	70	647		0.00- 0.00	0.29
7.904(0.000)	127	174269		0.00- 0.00	49.11
7.904(0.000)	197	0		0.00- 0.00	0.00
7.904(0.000)	199	23366		0.00- 0.00	6.58
7.904(0.000)	275	74304		0.00- 0.00	20.94
7.904(0.000)	365	7717		0.00- 0.00	2.17
7.904(0.000)	441	40413		0.00- 0.00	84.25
7.904(0.000)	442	253898		0.00- 0.00	71.55
7.904(0.000)	443	47966		0.00- 0.00	18.89

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Ecosys, Inc.

TARGET COMPOUNDS

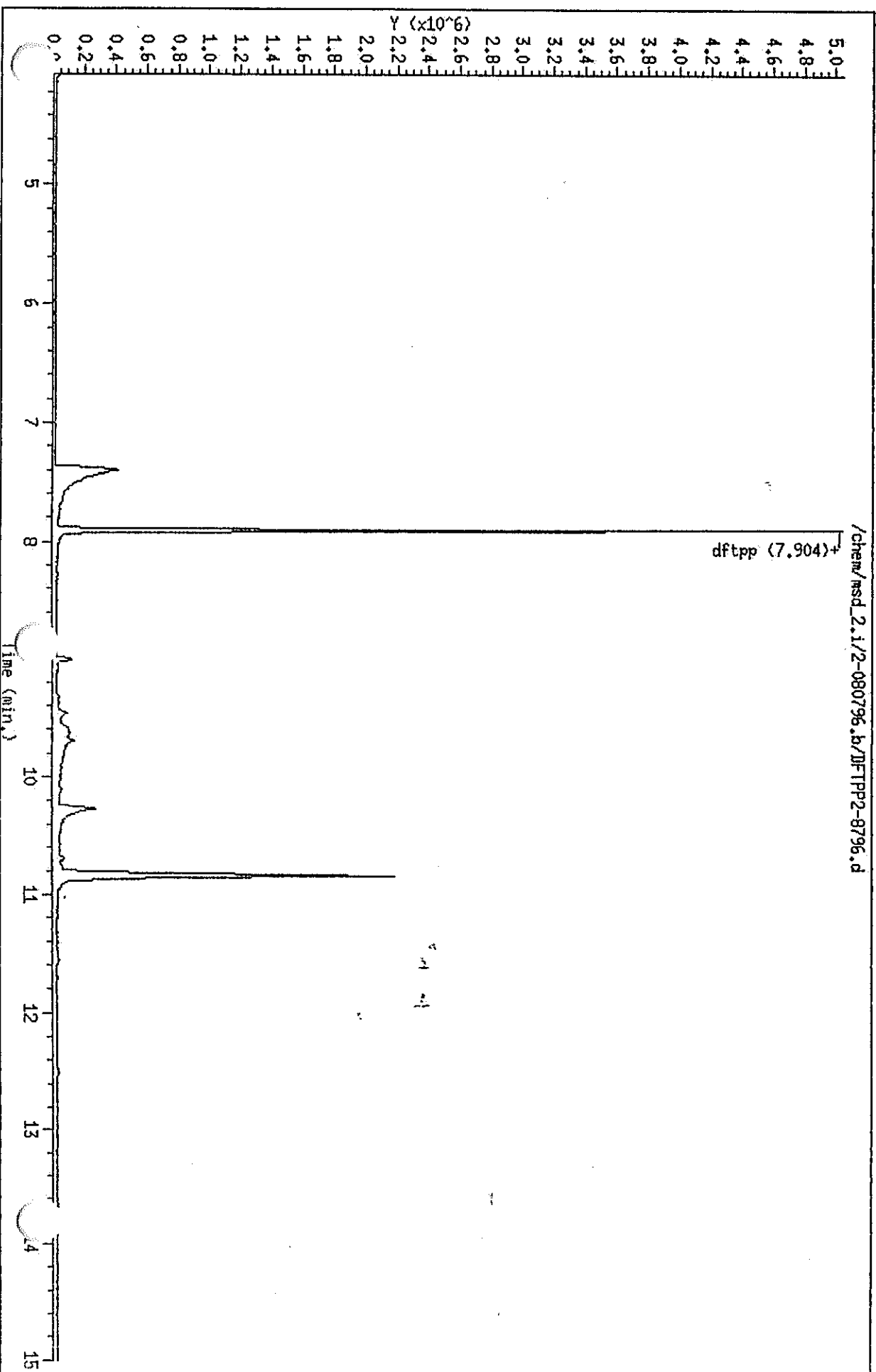
Client Name:	Client SDG: 2-080796.b
Client Sample ID: DFTPP02	Sample Date:
Sample Location:	Sample Point:
Lab Sample ID: DFTPP02	Date Received:
Sample Type: WATER	
Analysis Type: SU	Level: LOW
Data Type: MS DATA	Column Number: 1
Misc Info: TUNE FOR INSTRUMENT msd2.i	

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/KG) ug/L	Q
5074-71-5-----dftpp		0.0	
-----	-----	-----	-----

Data File: /chem/msd_2.1/2-080796.b/JF1PP2-8796.d
Date : 07-AUG-96 14:55
Instrument : msd_2.1
Sample ID : JF1PP02
Column phase :
Volume Injected (ul) : 1.0

Column diameter : 2.00

Page 3



Date : 07-AUG-96 14:55

Instrument : msd_2.1

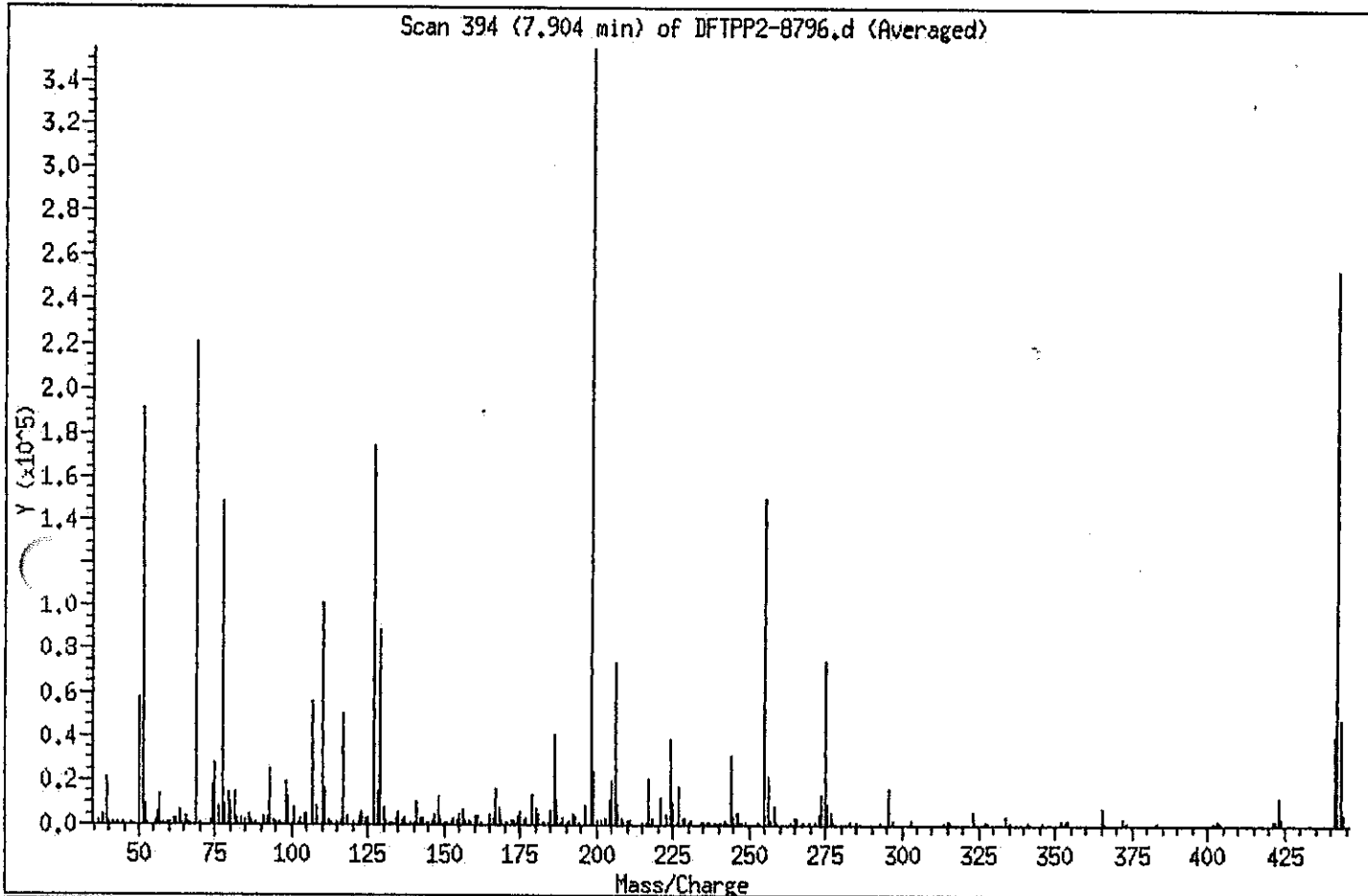
Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.0
51	Mass 51 relative abundance	53.4
68	Mass 68 relative abundance	0.0
69	Mass 69 relative abundance	62.0
70	Mass 70 relative abundance	0.3
127	Mass 127 relative abundance	49.1
197	Mass 197 relative abundance	0.0
199	Mass 199 relative abundance	6.6
275	Mass 275 relative abundance	20.9
365	Mass 365 relative abundance	2.2
441	Mass 441 relative abundance	84.3
442	Mass 442 relative abundance	71.5
443	Mass 443 relative abundance	18.9

Date : 07-AUG-96 14:55

Instrument : msd_2.1

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

Spectrum: Scan 394-396 (7.904 min) Subtraction Scan 391

Base Peak: 198.00

Number of mass peaks: 301

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
35.00	146	122.00	4071	201.00	1013	286.00	120
37.00	1781	123.00	6095	202.00	377	289.00	246
38.00	4105	124.00	2931	203.00	2495	290.00	196
39.00	19348	125.00	2466	204.00	11016	291.00	88
40.00	509	127.00	174269	205.00	20210	292.00	298
41.00	279	128.00	14479	206.00	73976	293.00	1077
44.00	93	129.00	89381	207.00	9125	294.00	330
45.00	495	130.00	6929	208.00	2459	296.00	15810
46.00	178	131.00	1848	209.00	777	297.00	2048
47.00	10	132.00	693	210.00	1487	298.00	107
48.00	306	133.00	275	211.00	2166	301.00	212
50.00	56900	134.00	2940	213.00	280	302.00	145
51.00	189640	135.00	6134	214.00	79	303.00	1783
52.00	9361	136.00	2344	215.00	931	304.00	345
53.00	510	137.00	2293	216.00	1088	308.00	244
54.00	215	138.00	459	217.00	21219	309.00	147
55.00	1136	139.00	289	218.00	2493	310.00	142
56.00	5760	140.00	1059	219.00	165	311.00	90
57.00	13018	141.00	10174	221.00	12013	312.00	150
58.00	503	142.00	2763	223.00	4895	313.00	145
59.00	496	143.00	2576	224.00	38341	314.00	949
60.00	109	144.00	468	225.00	10246	315.00	1760
61.00	2464	145.00	548	226.00	957	316.00	1196
62.00	2812	146.00	2048	227.00	17195	317.00	104
63.00	6400	147.00	4742	228.00	2302	321.00	451
64.00	919	148.00	12277	229.00	3196	322.00	469
65.00	2876	149.00	2071	230.00	539	323.00	5833
66.00	330	150.00	803	231.00	1465	324.00	1040
67.00	905	151.00	1116	232.00	4	326.00	67
69.00	220032	152.00	828	233.00	448	327.00	1108
70.00	647	153.00	2972	234.00	1081	328.00	507
72.00	45	154.00	2273	235.00	983	332.00	361
73.00	1643	155.00	4826	236.00	768	333.00	341
74.00	18163	156.00	6630	237.00	1285	334.00	3661
75.00	27546	157.00	1444	238.00	216	335.00	822

Date : 07-AUG-96 14:55

Instrument : msd_2.1

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

Spectrum: Scan 394-396 (7.904 min) Subtraction Scan 391

Base Peak: 198.00

Number of mass peaks: 301

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
76.00	8679	158.00	1536	239.00	660	336.00	104
77.00	147399	159.00	1286	240.00	532	341.00	731
78.00	9548	160.00	3388	241.00	1134	342.00	98
79.00	13906	161.00	3976	242.00	2021	346.00	1058
80.00	10335	162.00	1168	243.00	1335	347.00	179
81.00	14256	163.00	439	244.00	31074	352.00	1922
82.00	3267	164.00	302	245.00	4191	353.00	1171
83.00	2742	165.00	3536	246.00	5834	354.00	1989
84.00	317	166.00	2744	247.00	1258	355.00	261
85.00	2221	167.00	15511	248.00	482	358.00	72
86.00	4644	168.00	6855	249.00	1204	359.00	76
87.00	1834	169.00	1435	250.00	261	365.00	7717
88.00	728	170.00	531	251.00	329	366.00	948
89.00	428	171.00	506	252.00	456	370.00	186
90.00	207	172.00	1769	253.00	981	371.00	440
91.00	3612	173.00	1961	255.00	150474	372.00	2882
92.00	3532	174.00	3941	256.00	22214	373.00	660
93.00	24803	175.00	6007	257.00	1807	377.00	74
94.00	1272	176.00	1528	258.00	8421	383.00	681
96.00	648	177.00	3236	259.00	1262	384.00	162
98.00	18362	178.00	472	260.00	234	390.00	462
99.00	12235	179.00	13442	261.00	195	391.00	337
100.00	1229	180.00	7424	262.00	74	392.00	302
101.00	7650	181.00	4353	264.00	441	401.00	116
102.00	271	182.00	911	265.00	3234	402.00	1152
103.00	2635	183.00	592	266.00	762	403.00	1443
104.00	5052	184.00	1159	269.00	159	404.00	713
105.00	4440	185.00	6883	270.00	223	415.00	82
107.00	56213	186.00	40366	272.00	517	421.00	1602
108.00	8067	187.00	11502	273.00	4843	422.00	1504
110.00	100540	188.00	1089	274.00	13106	423.00	12235
111.00	15996	189.00	3117	275.00	74304	424.00	2601
112.00	1891	190.00	481	276.00	9255	425.00	276
113.00	741	191.00	1433	277.00	5274	441.00	40413
114.00	228	192.00	4112	278.00	809	442.00	253898

Data File: /chem/msd_2.1/2-080796.b/DFTPP2-8796.d

Page 7

.e : 07-AUG-96 14:55

Instrument : msd_2.1

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

Spectrum: Scan 394-396 (7.904 min) Subtraction Scan 391

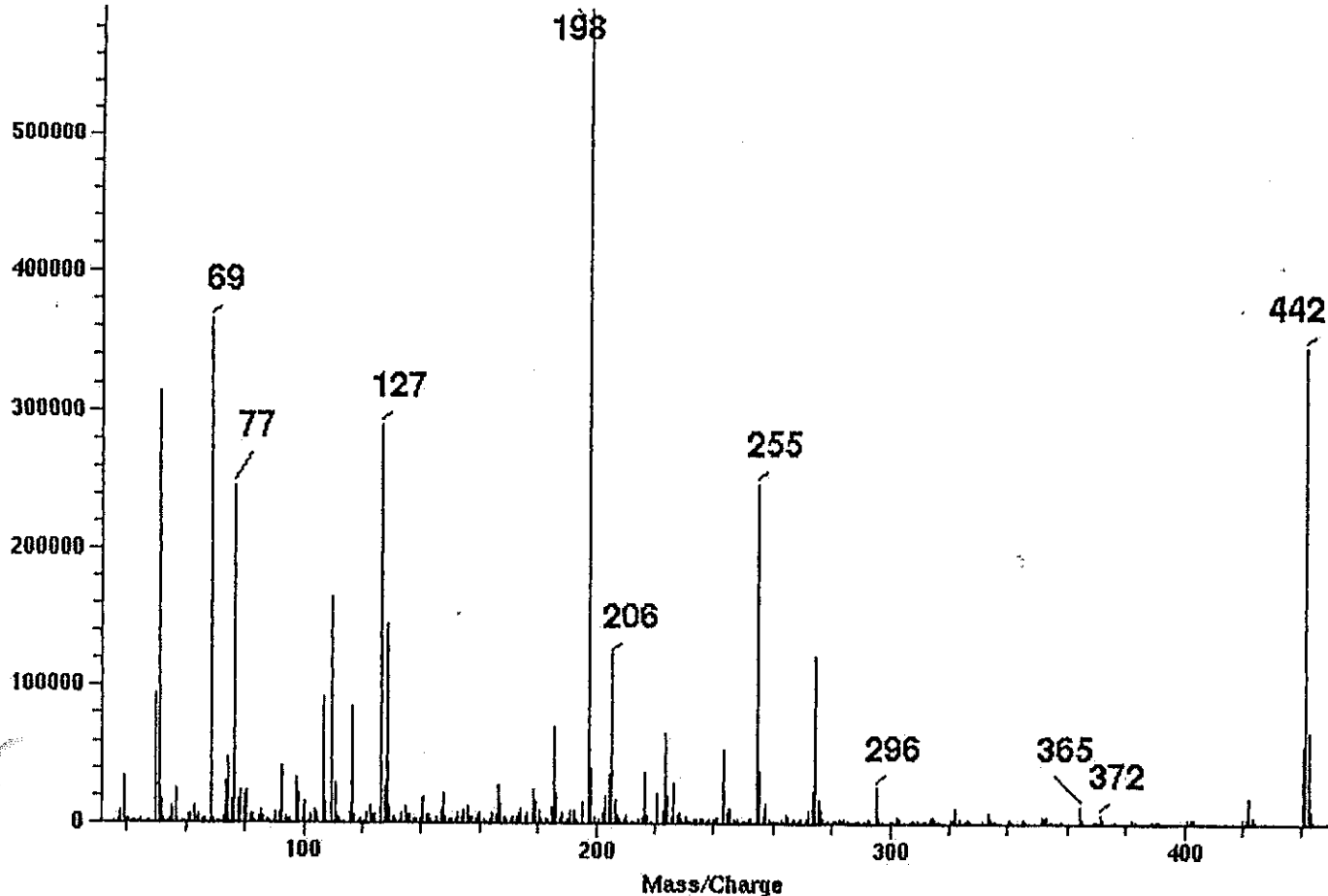
Base Peak: 198.00

Number of mass peaks: 301

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
115.00	86	193.00	4246	279.00	255	443.00	47966
116.00	1862	194.00	1277	281.00	154	444.00	4887
117.00	49627	196.00	8959	282.00	326	445.00	217
118.00	3145	198.00	354858	283.00	559		
119.00	435	199.00	23366	284.00	382		
120.00	985	200.00	1285	285.00	898		

Scan 395 (7.904 min) of DFTPP2-8796.d
msd_2 (ms5971-2); /chem/config/dvc/ms5971-2/dftpp.u; Tuned at 09:13 AM EDT on Wed Jul 31, 1996

Abundance



Mass	Ion abundance criteria	%relative abundance
51	30.0 - 60.0% of mass 198	52.6
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance is	61.4
70	Less than 2.0% of mass 69	0.4
127	40.0 to 60.0% of mass 198	48.5
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	20.4
365	Greater than 1% of mass 198	1.9
441	Present, but less than mass 443	83.8
442	Greater than 40.0% of mass 198	58.3
443	17.0 - 23.0% of mass 442	18.8

Ecosys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd_2.i Injection Date: 07-AUG-1996 15:21
Lab File ID: BNA0101001.d Init. Calibration Date(s): 05/28/93 07/31/96
Analysis Type: WATER Init. Calibration Times: 15:51 13:17
Lab Sample ID: Method File: /chem/msd_2.i/2-080796.b/MA-BNA.m

COMPOUND	RRF	RF80	MIN	RRF	%D	MAX
=====	=====	=====	=====	=====	=====	=====
12-Fluorophenol	1.112	0.986	10.050	11.3	30.0	
Aniline	1.113	1.041	10.050	6.5	30.0	
Phenol-d5	1.062	0.954	10.050	10.1	30.0	
Phenol **	1.085	1.043	10.050	3.9	30.0	
Bis(2-chloroethyl) ether	1.202	1.132	10.050	5.8	30.0	
2-Chlorophenol	1.283	1.182	10.050	7.9	30.0	
1,3-Dichlorobenzene	1.511	1.513	10.050	0.1	30.0	
1,4-Dichlorobenzene **	1.551	1.545	10.050	0.3	30.0	
1,2-Dichlorobenzene	1.460	1.427	10.050	2.2	30.0	
Benzyl alcohol	0.876	0.915	10.050	4.4	30.0	
2-Methylphenol	0.932	0.844	10.050	9.4	30.0	
Bis(2-chloroisopropyl) ether	1.021	0.900	10.050	11.8	30.0	
N-Nitrosodi-n-propylamine *	0.699	0.692	10.050	1.0	30.0	
4-Methylphenol	0.953	0.847	10.050	11.1	30.0	
Hexachloroethane	0.671	0.710	10.050	5.8	30.0	
Nitrobenzene-d5	0.424	0.427	10.050	0.6	30.0	
Nitrobenzene	0.398	0.409	10.050	2.7	30.0	
Isophorone	0.683	0.639	10.050	6.5	30.0	
2-Nitrophenol **	0.265	0.292	10.050	10.1	30.0	
2,4-Dimethylphenol	0.371	0.337	10.050	9.2	30.0	
Bis(2-chloroethoxy)methane	0.376	0.369	10.050	1.9	30.0	
2,4-Dichlorophenol **	0.313	0.336	10.050	7.4	30.0	
Benzoic acid	0.218	0.199	10.050	8.7	30.0	
1,2,4-Trichlorobenzene	0.385	0.431	10.050	12.0	30.0	
Naphthalene	1.148	1.196	10.050	4.2	30.0	
4-Chloroaniline	0.338	0.346	10.050	2.3	30.0	
Hexachlorobutadiene **	0.224	0.271	10.050	21.1	30.0	
4-Chloro-3-methylphenol **	0.350	0.358	10.050	2.4	30.0	
2-Methylnaphthalene	0.745	0.749	10.050	0.6	30.0	
Hexachlorocyclopentadiene *	0.259	0.331	10.050	27.7	30.0	
2,4,6-Trichlorophenol **	0.322	0.287	10.050	10.6	30.0	
2,4,5-Trichlorophenol	0.361	0.340	10.050	6.0	30.0	
2-Fluorobiphenyl	1.446	1.299	10.050	10.2	30.0	
2-Chloronaphthalene	1.202	1.009	10.050	16.0	30.0	
2-Nitroaniline	0.315	0.275	10.050	12.8	30.0	
Dimethyl phthalate	1.506	1.284	10.050	14.7	30.0	
2,6-Dinitrotoluene	0.312	0.260	10.050	16.8	30.0	
Acenaphthylene	1.850	1.541	10.050	16.7	30.0	
3-Nitroaniline	0.170	0.142	10.050	16.5	30.0	
Acenaphthene **	1.219	1.010	10.050	17.1	30.0	
2,4-Dinitrophenol *	0.112	0.116	10.050	4.1	30.0	
2,4-Dinitrotoluene	0.397	0.355	10.050	10.5	30.0	
4-Nitrophenol *	0.134	0.117	10.050	12.6	30.0	
Dibenzofuran	1.643	1.355	10.050	17.6	30.0	
Diethyl phthalate	1.537	1.330	10.050	13.4	30.0	

Ecosys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd_2.i Injection Date: 07-AUG-1996 15:21
 Lab File ID: BNA0101001.d Init. Calibration Date(s): 05/28/93 07/31/96
 Analysis Type: WATER Init. Calibration Times: 15:51 13:17
 Lab Sample ID: Method File: /chem/msd_2.i/2-080796.b/MA-BNA.m

COMPOUND	RRF	RF80	MIN	%D	MAX
=====	=====	=====	=====	=====	=====
Fluorene	1.284	1.097	0.050	14.6	30.0
4-Chlorophenyl phenyl ether	0.635	0.563	0.050	11.4	30.0
4-Nitroaniline	0.131	0.130	0.050	1.1	30.0
4,6-Dinitro-2-methylphenol	0.111	0.142	0.050	27.7	30.0
N-Nitrosodiphenylamine **	0.423	0.362	0.050	14.3	30.0
1,2-Diphenylhydrazine	2.092	1.754	0.050	16.2	30.0
2,4,6-Tribromophenol	0.137	0.163	0.050	18.4	30.0
4-Bromophenyl phenyl ether	0.300	0.305	0.050	1.8	30.0
Hexachlorobenzene	0.334	0.368	0.050	10.1	30.0
Pentachlorophenol **	0.123	0.142	0.050	15.1	30.0
Phenanthrene	1.345	1.375	0.050	2.2	30.0
Anthracene	1.243	1.200	0.050	3.5	30.0
Carbazole	0.636	0.609	0.050	4.3	30.0
Di-n-butyl phthalate	2.005	1.865	0.050	7.0	30.0
Fluoranthene **	1.145	1.296	0.050	13.1	30.0
Pyrene	2.175	1.745	0.050	19.8	30.0
Terphenyl-d14	1.448	1.115	0.050	23.0	30.0
Butyl benzyl phthalate	1.372	1.058	0.050	22.9	30.0
Di(2-ethylhexyl) adipate	1.185	0.862	0.050	27.3	30.0
3,3'-Dichlorobenzidine	0.143	0.123	0.050	13.7	30.0
Benz(a)anthracene	1.250	1.198	0.050	4.1	30.0
Bis(2-ethylhexyl) phthalate	2.119	1.670	0.050	21.2	30.0
Chrysene	1.162	1.208	0.050	4.0	30.0
Di-n-octyl phthalate **	5.966	4.465	0.050	25.2	30.0
Benzo(b)fluoranthene	1.739	1.767	0.050	1.6	30.0
Benzo(k)fluoranthene	1.966	1.937	0.050	1.5	30.0
Benzo(a)pyrene **	1.428	1.469	0.050	2.8	30.0
Indeno(1,2,3-cd)pyrene	1.075	1.068	0.050	0.6	30.0
Dibenz(a,h)anthracene	0.926	0.813	0.050	12.2	30.0
Benzo(g,h,i)perylene	1.008	0.931	0.050	7.6	30.0

SemiVolatile Method Blank Summary

Lab Name: EcoSys, Inc.

Client: ACE-SAD

Ledger No(s): 108040

Extraction Method No.: 3550

Batch No(s): 0807960004

Date Extracted: 8/7/96

Lab File ID: BNA0201002

Date Analyzed: 8/7/96

Lab Sample ID: AB36690

Time Analyzed: 16:08

Cleanup Method: NA

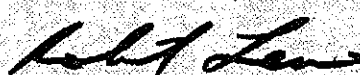
Level: Low

Instrument ID: MSD-2

Matrix: Soil

This method blank applies to the following samples, LCS, MS, and MSD:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	NA	AB37062 LCS	BNA0301003	8/7/96
2	NA	AB37060 MS	BNA0501005	8/7/96
3	NA	AB37061 MSD	BNA0601006	8/7/96
4	8101-TK1000A-S1	AB36686	BNA0701007	8/7/96
5	8101-TK100B-S1	AB36687	BNA0801008	8/7/96
6	8101-TK94B-S1	AB36688	BNA0901009	8/7/96
7	8101-TK94B-S2	AB36689	BNA1001010	8/7/96
8				
9				


QA/QC OfficerComments:

SemiVolatile MS/MSD Recovery

Lab Name: EcoSys, Inc.

Client: ACE-SAD

Ledger No(s): 108040

Matrix Spike/Spike dup AB36691 REF

Batch No(s): 0807960004

AB37060 MS

Lab File ID: BNA0501005/BNA0601006

AB37062 MSD

Compound	Spike Added (ug/Kg)	Sample	MS	MS % Recovery	#	QC Limits Recovery
		Conc (ug/Kg)	Conc (ug/Kg)			
Phenol	3330	ND	2290	69		26-90
2-Chlorophenol	3330	ND	2300	69		25-102
1,4-Dichlorobenzene	1670	ND	1100	66		28-104
N-Nitroso-di-n-propylamine	1670	ND	1500	90		41-126
1,2,4-Trichlorobenzene	1670	ND	999	60		38-107
4-Chloro-3-methylphenol	3330	ND	2500	75		26-103
Acenaphthene	1670	ND	1040	62		31-137
4-Nitrophenol	3330	ND	998	30		11-114
2,4-Dinitrotoluene	1670	ND	1010	60		28-89
Pentachlorophenol	3330	ND	2760	83		17-109
Pyrene	1670	ND	1400	84		35-142

Compound	Spike Added (ug/Kg)	MSD	MSD %	#	% RPD	#	QC Limits	
		Conc (ug/Kg)	Recovery				RPD	Recovery
Phenol	3330	2500	75		9		35	26-90
2-Chlorophenol	3330	2520	76		9		50	25-102
1,4-Dichlorobenzene	1670	1200	72		9		27	28-104
N-Nitroso-di-n-propylamine	1670	1780	107		17		38	41-126
1,2,4-Trichlorobenzene	1670	1050	63		5		23	38-107
4-Chloro-3-methylphenol	3330	2540	76		2		33	26-103
Acenaphthene	1670	1090	65		5		19	31-137
4-Nitrophenol	3330	889	27		12		50	11-114
2,4-Dinitrotoluene	1670	1110	66		9		47	28-89
Pentachlorophenol	3330	2980	89		8		47	17-109
Pyrene	1670	1530	92		9		36	35-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ND = Not Detected

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits


 QA/QC Officer

Comments: _____

SemiVolatile LCS Recovery

Lab Name: EcoSys, Inc.

Client: ACESAD

Ledger No(s): 108040

Lab Control Spike: AB37062

Batch No(s): 0807960004

Lab File ID: BNA03D1003

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	LCS Conc (ug/Kg)	LCS % Recovery	#	QC Limits Recovery
Phenol	3330	NR	1760	53		26-90
2-Chlorophenol	3330	NR	2020	61		25-102
1,4-Dichlorobenzene	1670	NR	1020	61		28-104
N-Nitroso-di-n-propylamine	1670	NR	952	57		41-126
1,2,4-Trichlorobenzene	1670	NR	1020	61		38-107
4-Chloro-3-methylphenol	3330	NR	2330	70		26-103
Acenaphthene	1670	NR	1260	75		31-137
4-Nitrophenol	3330	NR	2840	85		11-114
2,4-Dinitrotoluene	1670	NR	1100	66		28-89
Pentachlorophenol	3330	NR	2800	84		17-109
Pyrene	1670	NR	1510	90		35-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NR = Not Required

Spike Recovery: 0 out of 11 outside limits



QA/QC Officer

Comments: _____

SemiVolatile Surrogate Recovery (Soil)

Lab Name: EcoSys, Inc.

Client: ACE-SAD

Ledger No(s): 108040

Level: Low

Batch No.(s): 0807960004

Lab	S1	S2	S3	S4	S5	S6	Total
Sample No.	(2FP) #	(PHL) #	(NBZ) #	(FBP) #	(TBP) #	(TPH) #	Out
AB36690 MB	63	43	45	64	69	94	0
AB37062 LCS	59	55	54	65	85	94	0
AB37060 MS	64	67	60	73	86	85	0
AB37061 MSD	71	75	70	79	90	95	0
AB36686	37	39	27	50	58	90	0
AB36687	35	34	40	51	68	85	0
AB36688	26	27	57	89	43	49	0
AB36689	29	25	58	71	61	65	0

Column used to flag recovery values

* = Values outside of required QC limits

ND = Not Detected

	QC Limits
S1 (2FP) 2-Fluorophenol	25-121
S2 (PHL) Phenol-d5	24-113
S3 (NBZ) Nitrobenzene-d5	23-120
S4 (FBP) 2-Fluorobiphenyl	30-115
S5 (TBP) 2,4,6-Tribromophenol	19-122
S6 (TPH) Terphenyl-d14	18-137

Robert Levi

QA/QC Officer

Comments:

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.	54
Customer	<i>Triple R. Mgmt</i>	Description	<i>PCS</i>
Project Number	<i>RRR 104</i>		
Location	<i>H. Stewart</i>	County	<i>Liberty</i>

44060 1b Net

22020 1b Tare

66080 1b+ Gross

12:33 PM AU 30 96

[Signature]
Signature of Weigher

TONS:

22.03

TOTAL TONS:

999.58

1003.58

TRUCKER

DEIVER

TRUCK NO.

TICKET NO.

55

60168

55

NON-HAZARDOUS WASTE MANIFEST		Manifest Document No.	1. Page 1 of 1	
2. Generator's Name and Mailing Address Ft. Stewart Hinesville, GA 31313				
3. Generator's Phone (912) 234-6579				
4. Transporter 1 Company Name Hendricks Hauling				
5. Transporter 2 Company Name				
6. Designated Facility Name and Site Address Triple R Management, Inc. C/O Reynolds Construction Co. Rt. 84 Ludowici GA 31316			A. Transporter's Phone B. Transporter's Phone 912-427-6758 C. Facility's Phone 912-756-3655	
7. Waste Shipping Name and Description		8. Containers No. Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil		1 TT	18.00	CY
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
11. Special Handling Instructions and Additional Information 8101 Tank# _____				
12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Tom Fry		Signature Tom Fry		Month Day Year 08 30 96
13. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name GILL JERRY		Signature Jerry Gill		Month Day Year 08 30 96
14. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
15. Discrepancy Indication Space				
16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Charles Pruitt		Signature Charles Pruitt		Month Day Year 08 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.	55
Customer	Triple R. Mgmt.	Description	PCS
Project Number	104		
Location	St. Louis	County	St. Louis

34500 lb Net

21640 lb Tare

56140 lb+ Gross

12:35 PM AU 30-96

Signature of Weigher

TONS:

17.25

TOTAL TONS:

1016.83

~~1020.83~~

TRUCKER

DRIVER

TRUCK NO.

TICKET NO.

43

60169

43

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

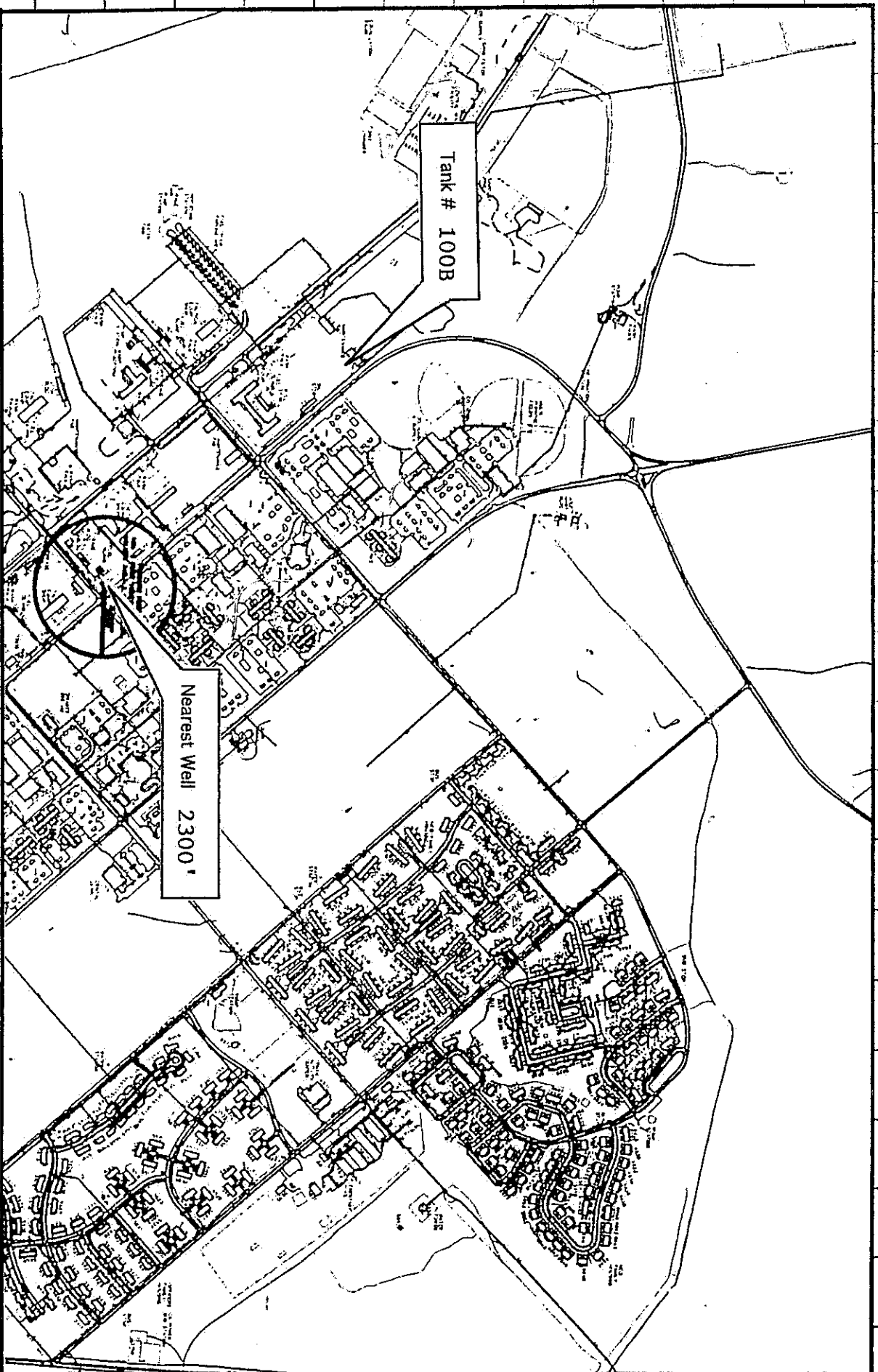
GENERATOR

TRANSPORTER

FACILITY

TAB 10

FORT STEWART AREA MAP



LEGEND/REF. DRWG'S

ANDERSON COLUMBIA

E N V I R O N M E N T A L I N C.
P.O. BOX 1386 LAKE CITY, FLORIDA 32056 (904) 755-1196

Base map of Fort Stewart.

DR. AJR CHD SRC DR. APP. DFB
ENGR. ENGRG DEPT
DATE 9 Oct 96 SCALE 1" = 1000'

Area Map for Tank # 100B
Fort Stewart
Hinesville, Georgia

DRAWING NO.: FIGURE 1