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

CLOSURE REPORT

WASTE OIL TANK
BUILDING 1349, TANK 100A
FACILITY ID NUMBER: 9-089080
FT. STEWART, GEORGIA

PREPARED BY:

ANDERSON COLUMBIA ENVIRONMENTAL, INC.

NOVEMBER 1996

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

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

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Prepared by

Anderson Columbia Enviornmental, Inc.

CLOSURE REPORT ADDENDUM

FACILITY ID. NO. 9-089080
UST #100A

APRIL 9, 1998

NOTE: PLEASE INSERT THIS ADDENDUM INTO THE CLOSURE REPORT SUBMITTED TO THE USTMP IN NOVEMBER 1996

TAB 1

GEORGIA CLOSURE REPORT FORMS

Georgia Department of Natural Resources

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

CLOSURE REPORT FORM

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

1. Owner of UST System:

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

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

Signature: _____ Date: _____

2. UST System Site Location:

Facility Name:	Ft. Stewart, GA FAC 1349		
Street Address:	FAC 1349		
	Ft. Stewart	GA	31314-5000
	(city)	(state)	(zip code)
Facility ID#	9-089080		

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: 11/8/96

4. Site-specific Hydrogeology:

Depth to Groundwater _____ ft. if encountered

[X] Not Applicable

5. Site Map: Include the following items on an attached site map: **REFER TO TAB 5**

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

6. Tank Removal

- Date of Removal: 29-Jul-96
- Tank Information:

Tank #	Tank Size (gallons)	Tank Contents
100A	1000	Waste Oil

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

- Attach Amended Notification Form 7530-1 **REFER TO TAB 6**
- Describe Soil Sampling Procedures (and groundwater, if encountered):

REFER TO TAB 6

7. Laboratory Analytical Data: The following items must be included on attached copies **REFER TO TAB 7**

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

8. Regulated Substance Released: Check the applicable box(es).

[ ] Gasoline [ ] Diesel [ ] Kerosene [ ] Used Oil [X] Other No release

9. Excavation and Treatment/Disposal of Contaminated Soil:

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

_____ Tons OR _____ yd^3

[X] 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 100A site prior to removal activities.

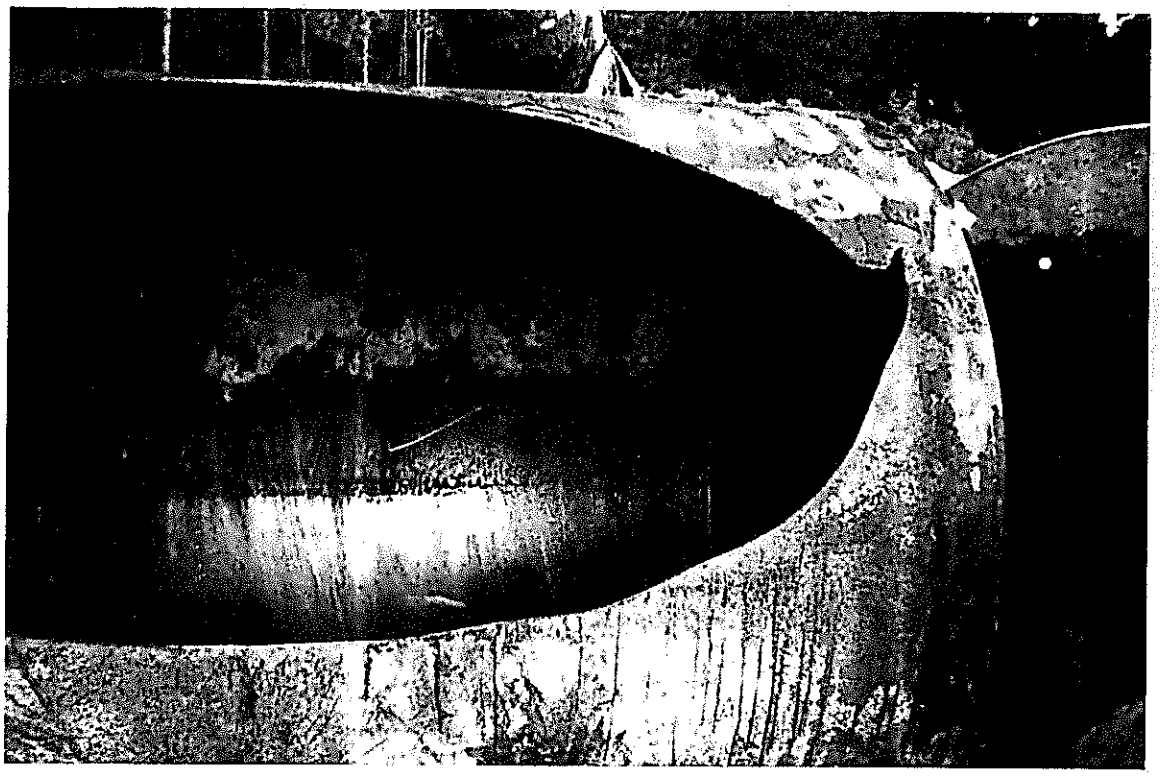


Photo 2. Tank 100A after cutting and cleaning.

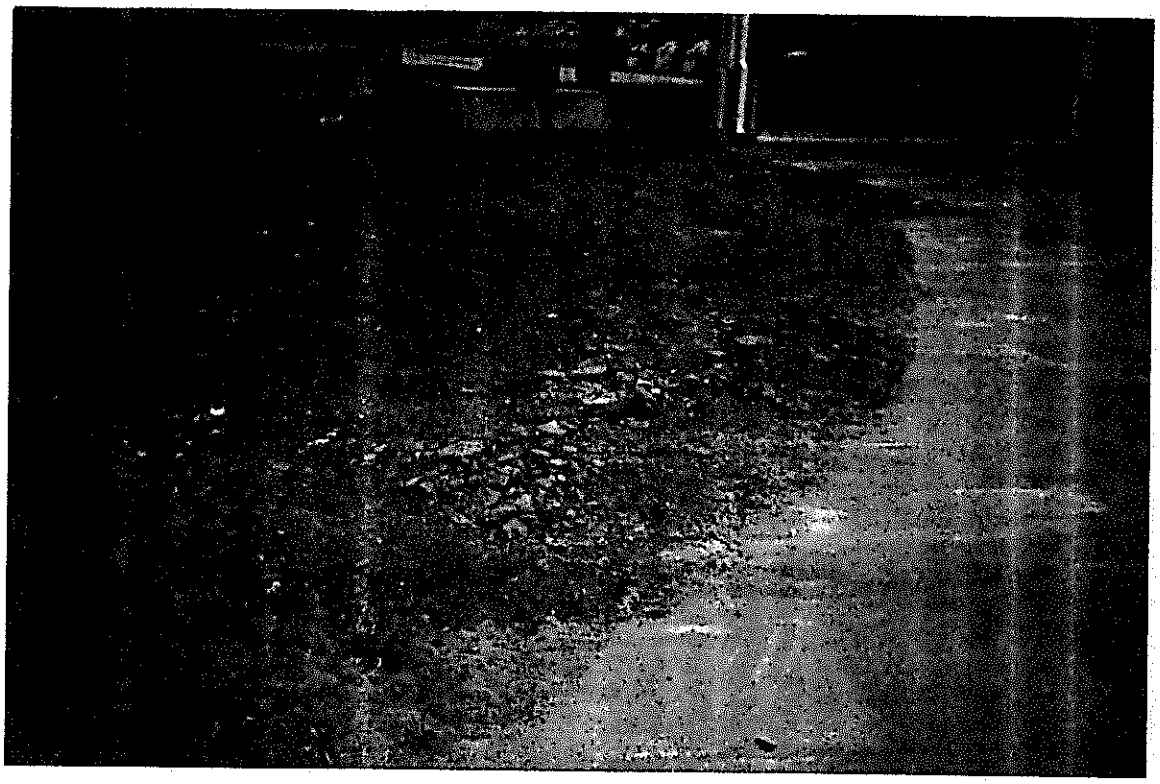


Photo 3. The tank site after backfilling.

CLOSURE REPORT ADDENDUM
UST #100A, FACILITY ID. NO. 9-089080

SITE MAP
TAB 5

A general site map that includes the location of the tank, associated piping, sewer lines, water lines, approximate sampling location, scale, north arrow, and tank identification number is provided as Map 1. A typical detail for the 1000 gallon waste oil tank is provided as Map 2.

In addition, the sketch of the sampling location previously submitted with the Closure Report has been revised to include the sample identification and approximate depth and is provided as Map 3.

Please replace the maps previously submitted with Maps 1 through 3 provided in this addendum into the Closure Report submitted to the USTMP in November 1996 under Tab 5.

TAB 5

SITE MAPS

INFORMATION ON MAPS

MAP #1: Site plan, copied from Installation archives.

MAP #2: 1000 gallon UST typical detail, copied from Installation archives.

MAP #3: Provided to Installation by Anderson Columbia Environmental annotating sampling location.

NOTE: This UST was for Waste oil storage and did NOT have dispensers, only a waste oil-draw-off.

TAB 5

SITE MAPS

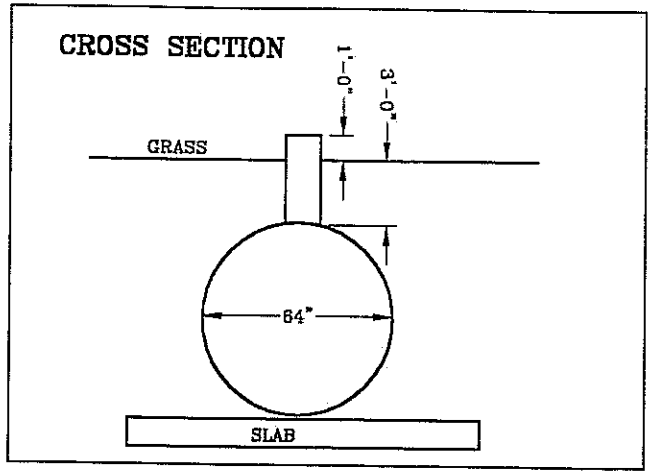
Headspace Analyses

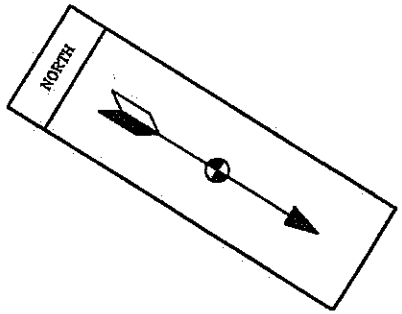
Instrument: _____ Serial #: _____

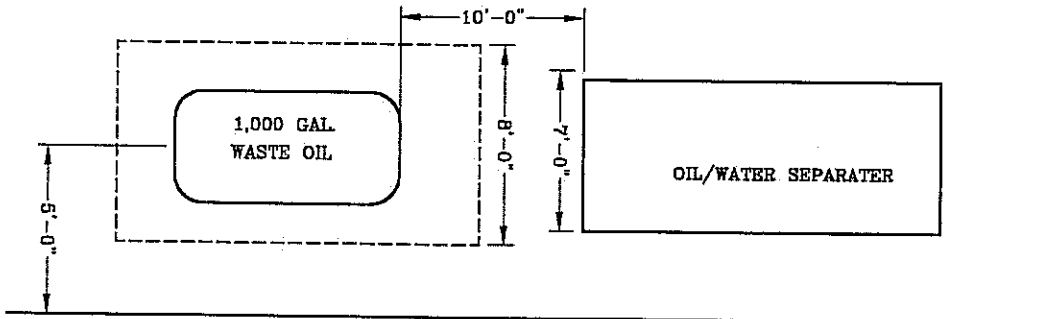
Source: _____ Temp: _____

PID Correlation: 50 ppm

Sample	Depth	PID	FID	Methane	VOA







CONCRETE

BLDG. 1349

LEGEND/REF. DRWG.'S

EXCAVATION AREA: 8' X 13' X 8' DEEP

ANDERSON COLUMBIA
ENVIRONMENTAL, INC.
P.O. BOX 1386 LAKE CITY, FLORIDA 32056 (904) 755-1195

DR. N.A.M. CH'D _____ DR. APP. _____

ENGR. _____ ENGR.'S DEPT. _____

DATE 11-6-96 SCALE N.T.S.

JOB #B101 FT. STEWART, GA

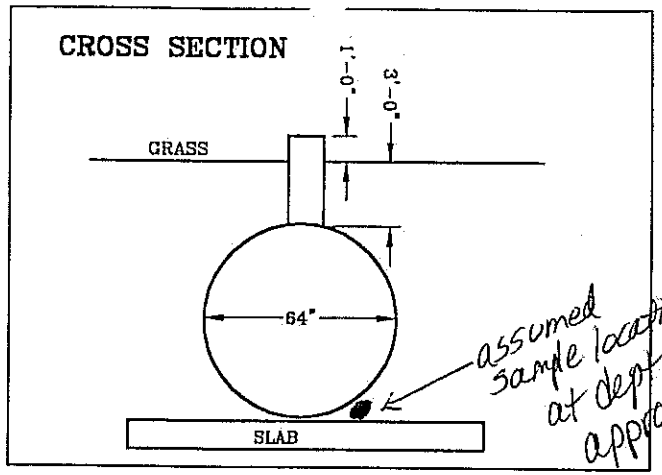
LOCATION: BLDG. 1349

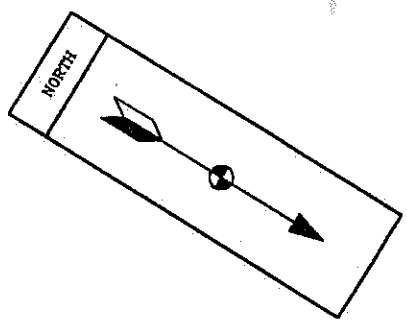
TANK 100A WASTE OIL

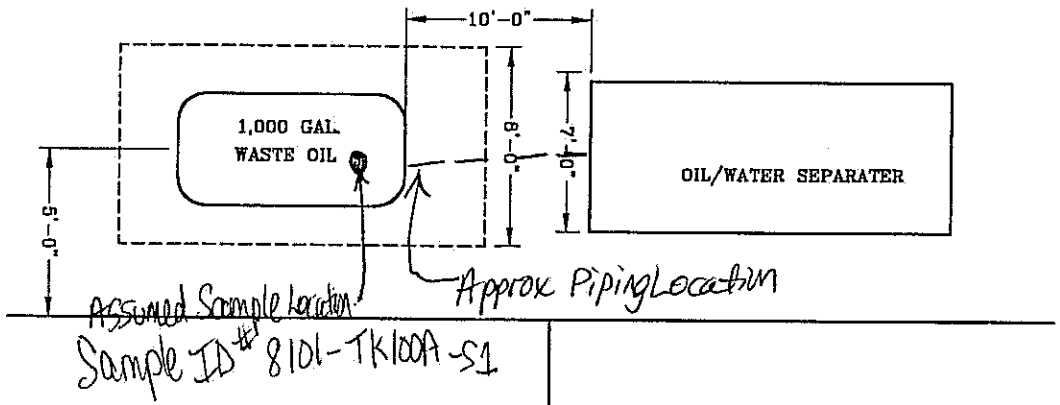
Headspace Analyses

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

Sample	Depth	PID	FID	Methane	VOA







LEGEND/REF. DRWG.'S

EXCAVATION AREA: 8' X 13' X 8' DEEP

ANDERSON COLUMBIA
ENVIRONMENTAL, INC.
P.O. BOX 1386 LAKE CITY, FLORIDA 32056 (904) 755-1195

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

JOB #8101 FT. STEWART, GA
LOCATION: BLDG. 1349
TANK 100A WASTE OIL
FAC. ID# 9089080

m803/0046

TAB 6

EPA FORM 7530-1
&
FIELD ASSESSMENT METHODS

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part I: Facility Data

state use only

FACILITY ID NUMBER: 9-089080

OWNER'S ID: 197

INITIAL DATE RECEIVED: 05-06-1986

DATE AMENDED LAST:

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

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

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

LOCATION OF TANK (S):

Name : FT STEWART/FAC 1349
Street Address : FAC 1349
City : FT STEWART State: GEORGIA Zip Code: 31314-5000
County : LIBERTY Latitude: Longitude:
Phone :

OWNER TYPE: [X] Federal [ ] State [ ] Local [ ] Commercial [ ] Private

FACILITY TYPE (S):

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

CONTACT PERSON IN CHARGE OF TANK (S):

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

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part I: Facility Data

FINANCIAL RESPONSIBILITY: **FACILITY ID NUMBER:**

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

Primary Financial Responsibility Mechanism (check one)

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

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

Financial Responsibility Provider (deductible):

Name: _____

Address: _____ City: _____ State: _____

Mechanism Id Number: _____

Mechanism Anniversary Date: _____

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part III: Certifications

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

Installer:

Company	Company Address
Authorized Representative	Signature / Date
Title	Telephone Number (include Area Code)

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

Owner:

John H. Spears Owner Name	Chief, Environmental Branch Title
ORIGINAL SIGNED Owner's Signature	11/96 Date

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089080				
TANK ID	100A				
Status of Tank					
Currently in Use	X				
Temp. Out of Use					
Perm. Out of Use	X				
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	9-089080									
TANK ID	100A									
Substance Stored in Tank										
Hazardous Substance										
CERCLA Name										
CAS Number										
Mixture										
Mixture, Specification										
Out of Use/Chg. Ser.	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Est. Date Last Used	7-23-96	7-23-96								
Est. Date Closed	7-29-96	7-29-96								
Removed from Ground	Y									
Closed in Ground		Y								
Filled with Iner. Mat.		Y								
Change in Service										
Site Assessment Compl.										
Leak Detected										
Installation										
Certified by Manufac.										
Certified by Imple. Agn.										
Inspected by Engineer										
Checklists Completed										
Another Allowed Method										
Method Description										
Certified by Imple. Agn.										
Inspected by Engineer										
Checklists Completed										
Another Allowed Method										
Method Description										
Release Detection	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Tank Tightness Testing										
Inventory Controls										
SIR										
Automatic Tank Guaging										
Inter. Mon./Double Wall										
Groundwater Monitoring										
Manual Tank Guaging										
Vapor Monitoring										
Inter. Mon./Sec. Cont.										
Auto. Line Leak Detect.										
Line Tightness Testing										
Other Method										
Other Description										
Spill and Overfill										
Date Overfill Device										
Date Spill Device										
Installer Certification										
Name										
Position										
Company										
Date										

CLOSURE REPORT ADDENDUM
UST #100A, FACILITY ID. NO. 9-089080

TANK REMOVAL
(CLOSURE OF PIPING)
TAB 6

The undersigned certifies that the piping associated with former Tank #100A, located at Building 1349, Fort Stewart, Georgia, was purged, cleaned, and removed by our contractor, Anderson Columbia Environmental. The piping connection at the oil/water separator, which is located approximately ten feet from the former UST, was capped at the oil/water separator.

The undersigned also certifies that the piping at this facility was associated with Tank #100A, which was used for storage of waste oil. The piping was not greater than 25 feet (i.e., piping from tank to oil/water separator was 10 feet), and in accordance with GUST Rules, sampling is not required.

Name: Dale F. Kiefer Title: Chief, Environmental
Natural Resources Division

Signature: Dale F. Kiefer Date: 4/13/98

CLOSURE REPORT ADDENDUM
UST #100A, FACILITY ID. NO. 9-089080

TANK REMOVAL
(FIELD ASSESSMENT METHODS)
TAB 6

Please replace the Field Assessment Methods included under Tab 6 of the previously submitted Closure Report with the attached methodology. The previous methodology enclosed with the report was in error. Only one soil sample was taken at this site.

TAB 6

CLOSURE REPORT ADDENDUM
UST #100A, FACILITY ID. NO. 9-089080

FIELD ASSESSMENT METHODS

SOIL SAMPLES

TANK #100A: Removed July 29, 1996

One (1) soil sample for analytical testing was collected by Anderson Columbia Environmental, Inc. (ACE) personnel approximately two (2) feet below the center of the excavated tank pit in accordance with GUST-9 requirements for a 1000 gallon UST (i.e., GUST-9 Section 7) I.). The soil sample was collected into a precleaned, labeled laboratory sample bottles and immediately placed on ice. The sample was shipped under Chain of Custody to the South Atlantic Division, Corps of Engineers laboratory (contracted to Analytical Services, Inc.), located in Norcross, Georgia.

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.

CLOSURE REPORT ADDENDUM
UST #100A, FACILITY ID. NO. 9-089080

LABORATORY ANALYTICAL DATA
TAB 7

Lab data previously submitted in the Closure Report included all samples listed on a single chain-of-custody, which included multiple sites. Please replace the laboratory data sheets contained in the Closure Report submitted in November 1996 (Tab 7) with those provided in this addendum which are specific to UST #100A.

TAB 7

ANALYTICAL DATA

TAB 7 - Laboratory Analytical Data

Delivery Order #101
Fort Stewart, Georgia
Tank Number 100A
Building Number 1349

Method / **Sample ID** / *unit*	9073 **TRPH** ppm	418.1 **TPH** ppm	8020A **BTEX** ppb	8270B **Semi-Volatile Organics** ppb
8101-TK100A-S1		bdl	bdl	bdl
bdl= below method detection limits				

**Fort Stewart is in an area of 'High or Average Groundwater pollution susceptibility' and this tank is approximately 2400 feet from a withdrawal point. Comparisons should be made to Table A for contaminants >500 feet from a withdrawal point. Because no contamination was encountered in the excavation pit, a clean closure is likely.

Complete Data Package Follows

Petroleum Constituents and Soil Threshold Levels[a]

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

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

a - Based on worst-case assumptions for one-dimensional vadose zone and groundwater contaminant fate and transport models.
b - Based on an assumed distance of 0.5 feet between contaminated soils and the water table.
c - Based on an assumed distance of 5.0 feet between contaminated soils and the water table.
d - Estimated Quantitation Limit. The health-based threshold level is less than the laboratory method limit of detection.
e - Not applicable. The health-based threshold level exceeds the expected soil concentration under free product condition.
f - In order to protect surface waters, the soil threshold level in Table B may supersede that found in Table A.
g - In the presence of other petroleum contaminants in concentrations exceeding 1.0 mg/kg, the Estimated Quantitation Limit, and hence the soil threshold level, may be substantially greater, as approved by EPD.

Table B

Petroleum Constituents and Soil Threshold[a] Levels

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

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	William L. Tison	25 Aug 1996

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

District - SAVANNAH
Date Received - 96/08/01
Date Reported - 96/08/21 09:39:38

FT. STEWART ARMY AF
Requisition - PMS-96-109
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
Chemist

Sheet 1 of 4

SADD Labs

ANDERSON COLUMBIA ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

SDG # 4047

Page 1 of 1

Project No.	Project Name
8101	Ft Stewart DO-0101

Samplers (Signature)

Sample Number	Date	Time	Grab	Comp.	Sample Location	No. of Containers	Preservative	8020	8270	418.1					Remarks:
Temp Vial	7/30/96	~~0930~~ KPH	✓		~~Soil~~ KPH	1	Un	~~✓~~ KPH	~~✓~~ KPH	~~✓~~ KPH					
8101-TK100A-S1	7/30/96	0930	✓		Soil	3	Un	✓	✓	✓	8960	64			
8101-TK100B-S1	7/30/96	1600	✓		Soil	3	Un	✓	✓	✓			65		
8101-TK94B-S1	7/31/96	1000	✓		Soil	3	Un	✓	✓	✓			66		
8101-TK94B-S2	7/31/96	1015	✓		Soil	3	Un	✓	✓	✓			67		

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
	7/31/96 1345				
Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Remarks:
Relinquished by:	Date / Time	Received by: 0930			

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: Atlanta GA

PROJECT: F. Stewart W.O.# _____ JOB# 4047

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

1. Did cooler come with shipping slip? [✓] yes [ ] no
If yes, enter Tracking Number here 102038 3254

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: ice

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: EQ343 TAT Expedite

COMMENTS: _____

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

LAB NUMBER(S): 29664 - 29667

SIGNATURE: Beth C. McDonald

ECOSYS
LABORATORY SERVICES

ANALYTICAL REPORT

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

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

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

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
)B	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
)B	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	**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	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
(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 **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
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 **Client Site #** 29665
Project # 4047 **Client Sample #** 8101-TK100B-S1
Project Name FT. STEWART
Sampling Date/Time 07/30/96 16:00

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 AB36690 **Client Site #**

Project # 4047 **Client Sample #** SOIL METHOD BLANK

Project Name FT. STEWART

Sampling Date/Time / / :

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	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	132-64-9	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 **Client Site #**

Project # 4047 **Client Sample #** SOIL METHOD BLANK

Project Name FT. STEWART

Sampling Date/Time / / :

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	206-44-0	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
8270B	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
BTEX (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 Client Site #
Project # 4047 Client Sample # MS
Project Name FT. STEWART
Sampling Date/Time / /

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)	S06013	64		% REC	1.0	367-12-4	GC	08/07/96
8270B	PHENOL-D5 (SURR)	S06013	67		% REC	1.0	13127-88-3	GC	08/07/96
8270B	NITROBENZENE-D5 (SURR)	S06013	60		% REC	1.0	4165-60-0	GC	08/07/96
8270B	2-FLUOROBIPHENYL (SURR)	S06013	73		% REC	1.0	321-60-8	GC	08/07/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	S06013	86		% REC	1.0	118-79-6	GC	08/07/96
8270B	TERPHENYL-D14 (SURR)	S06013	85		% REC	1.0	1718-51-0	GC	08/07/96

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

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)	S06013	71		% REC	1.0	367-12-4	GC	08/07/96
8270B	PHENOL-D5 (SURR)	S06013	75		% REC	1.0	13127-88-3	GC	08/07/96
8270B	NITROBENZENE-D5 (SURR)	S06013	70		% REC	1.0	4165-60-0	GC	08/07/96
8270B	2-FLUOROBIPHENYL (SURR)	S06013	79		% REC	1.0	321-60-8	GC	08/07/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	S06013	90		% REC	1.0	118-79-6	GC	08/07/96
8270B	TERPHENYL-D14 (SURR)	S06013	95		% REC	1.0	1718-51-0	GC	08/07/96

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

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)	S06013	59		% REC	1.0	367-12-4	GC	08/07/96
8270B	PHENOL-D5 (SURR)	S06013	55		% REC	1.0	13127-88-3	GC	08/07/96
8270B	NITROBENZENE-D5 (SURR)	S06013	54		% REC	1.0	4165-60-0	GC	08/07/96
8270B	2-FLUOROBIPHENYL (SURR)	S06013	65		% REC	1.0	321-60-8	GC	08/07/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	S06013	85		% REC	1.0	118-79-6	GC	08/07/96
8270B	TERPHENYL-D14 (SURR)	S06013	94		% REC	1.0	1718-51-0	GC	08/07/96

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

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 Client Site #
Project # 4047 Client Sample # MS
Project Name FT. STEWART
Sampling Date/Time / /

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 Client Site #
Project # 4047 Client Sample # MSD
Project Name FT. STEWART
Sampling Date/Time / /

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

U.S. Army Corps of Engineers Work Order #: ____ Job #: 4047 Chain of Custody Record

(ER 1110-1-263)

Proj. No. | Project Name: Ft. Stewart

Sampler: (Signature)

TAT: Regular

* Due 8/9

Date	Time	Pres.	Grab	Comp	Site Code/Sample Number	Number of Containers	8020	8270	TRPH 418.1					Remarks: SAD NO.	MAT
7/30/96	0930				8101-TK100A-S1	3	V	V	V					29664	AB 36686
↓	1600				8101-TK100B-S1	3	V	V	V					29665	AB 36687
7/31/96	1000				8101-TK94B-S1	3	V	V	V					29666	AB36688
↓	1015				8101-TK94B-S2	3	V	V	V					29667	AB 36689
					soil method Blank		X	X	X						AB 36690

Sampler Relinquished by:	Date/Time	Received by: (Sig.)	Date/Time	Hazards Associated with Samples
Relinquished by: (Sig.)	Date/Time 8/1/96	Received by: (Sig.)	Date/Time	
Relinquished by: (Sig)	Date/Time	Received for Laboratory by: (Sig.) Oscar A.	Date/Time 8/2 3/02 1023	Remarks at time of receipt:
Custody Seal No.		Lab case No.: 108040		

ENG Form 1-R, Oct 90

Pro nt: CEMP

40C f4

014

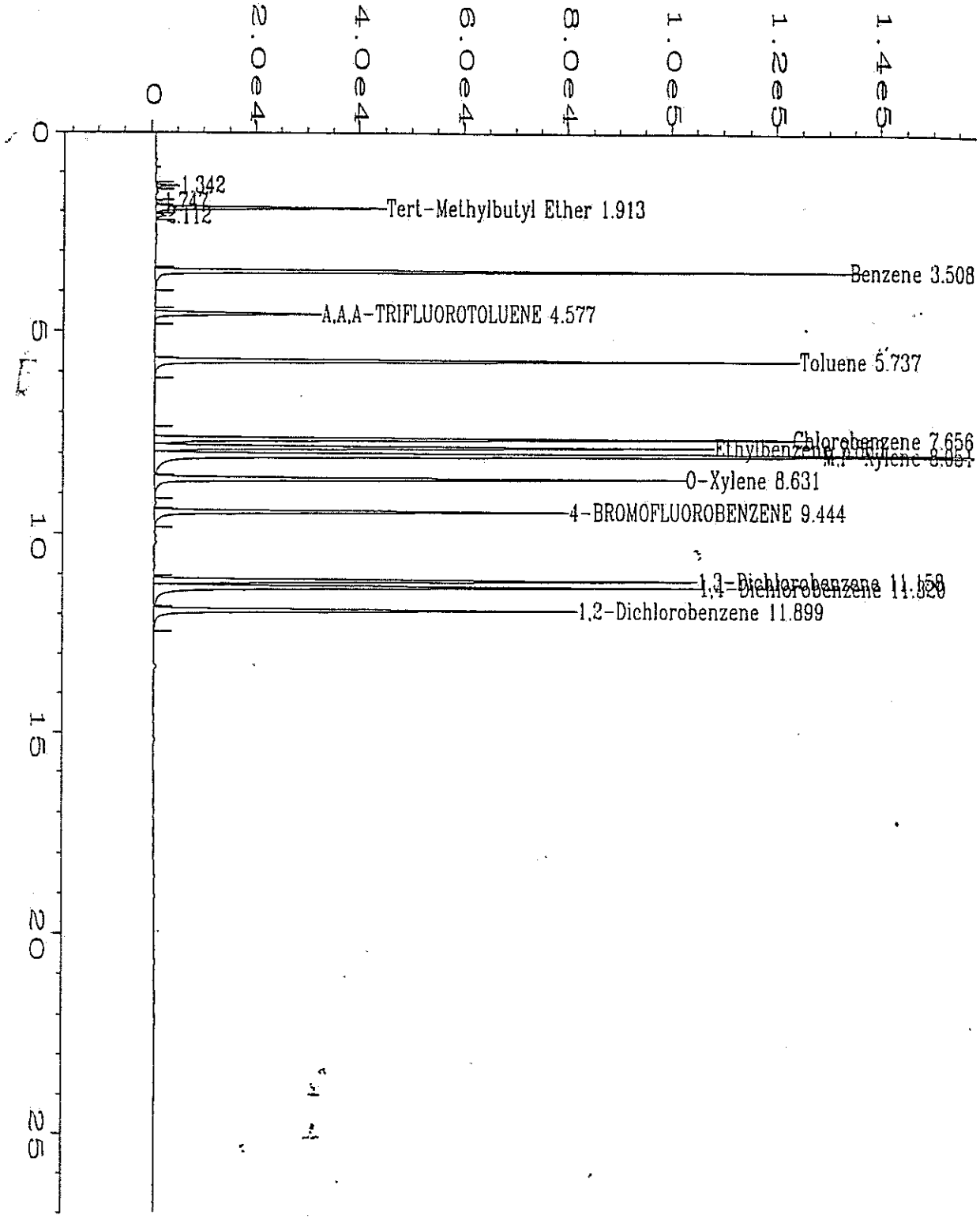
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\b080896\30808F10.D
Operator : Doug Anderson
Instrument : GC3
Sample Name : 20ppb 8020 ccv
Run Time Bar Code:
Acquired on : 08 Aug 96 03:45 PM
Report Created on: 08 Aug 96 04:12 PM
Last Recalib on : 02 AUG 96 07:23 AM
Multiplier : 1
Sample Info : 16ppb surr

Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 1
Instrument Method: 3B080196.MTH
Analysis Method : 3B080196.MTH
Sample Amount : 0
ISTD Amount :

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		
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		

BTEX Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 108040	
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.	Client: ACE-SAD
Ledger No: 108040	Matrix Spike/Lab Sample No: AB36628 REF
Batch No: 080896BW	AB37091 MS
Lab File ID: 30808F13/30808F14	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	#	QC Limits 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

QA/QC Officer

Comments: _____

BTEX LCS Recoveries (Soil)

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No: 108040	Laboratory Control Sample No: AB37090
Batch No: 080896BW	Level (Low/Med): Low
Lab File ID: 30808F12	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

Lab Name: EcoSys, Inc. Client: ACE-SAD
Ledger No(s): 108040
Batch No.: 080896BW Matrix: Soil
GC Column : DB-VXR Level: Low

Lab Sample No.	A,A,A-Trifluorotoluene %Rec	#	4-Bromofluorobenzene %Rec	#	Total Out
AB36690 MB	89		92		0
AB37090 LCS	93		97		0
AB37091 MS	62		64		0
AB37092 MSD	64		63		0
AB36686	78		74		0
AB36687	71		103		0
AB36688	70		73		0
AB36689	63		63		0

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

QA/QC Officer

Comments:

Lab Name: EcoSys, Inc. Client: ACE-SAD

Ledger No: 108040 DFTPP Injection Date: 7/31/96

Lab File ID: DFTPP073196 DFTPP Injection Time: 9:15

Instrument ID: MSD-2 Batch 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

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

QC Flag Legend

I - Qualifier signal failed the ratio test.

Ecosys, Inc.

TARGET COMPOUNDS

Client Name:
Client Sample ID: DFTPP02
Sample Location:
Lab Sample ID: DFTPP02
Sample Type: WATER
Analysis Type: SU
Data Type: MS DATA
Misc Info: TUNE FOR INSTRUMENT msd2.i

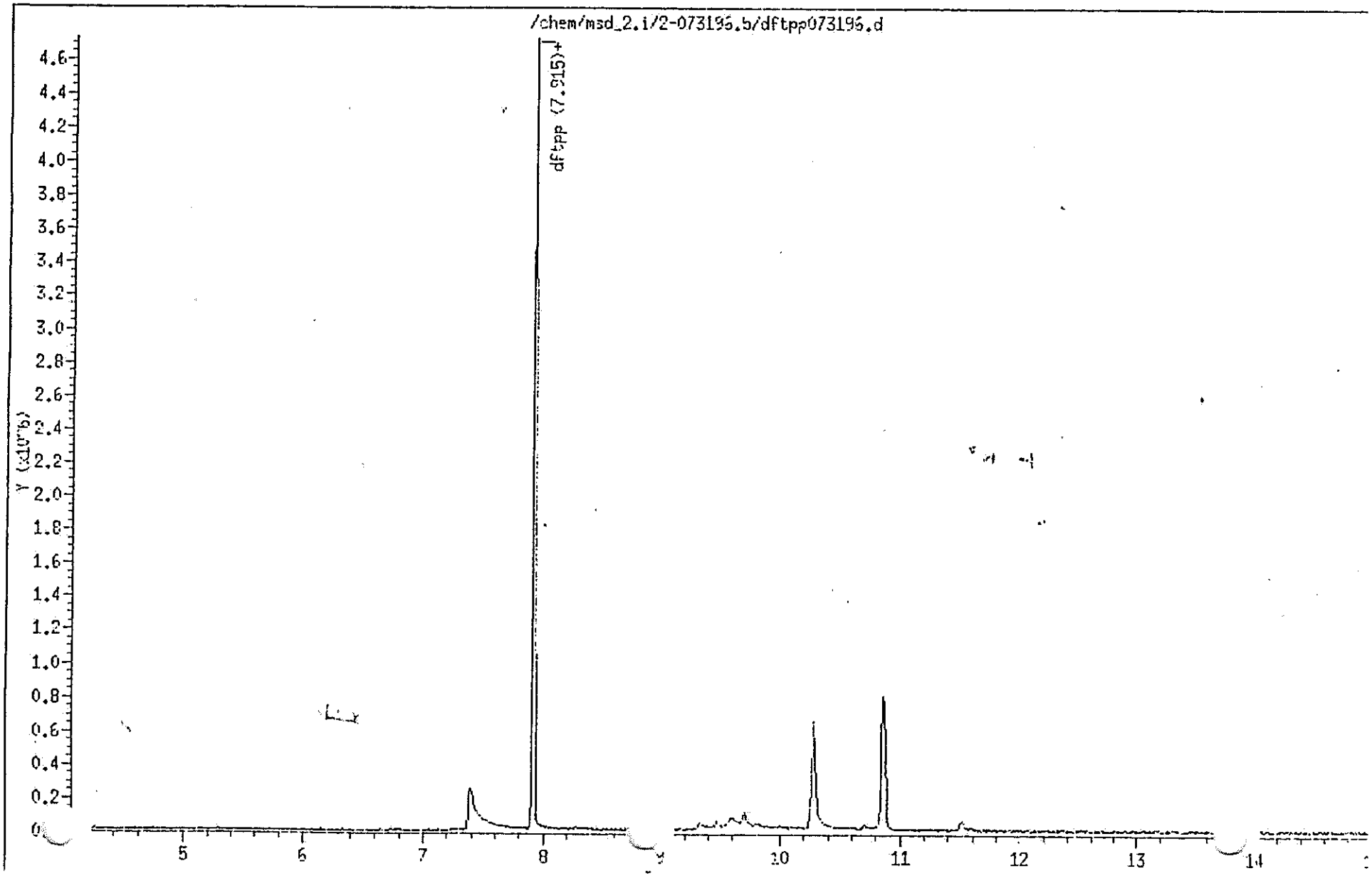
Client SDG: 2-073196.b
Sample Date:
Sample Point:
Date Received:

Level: LOW
Column Number: 1

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

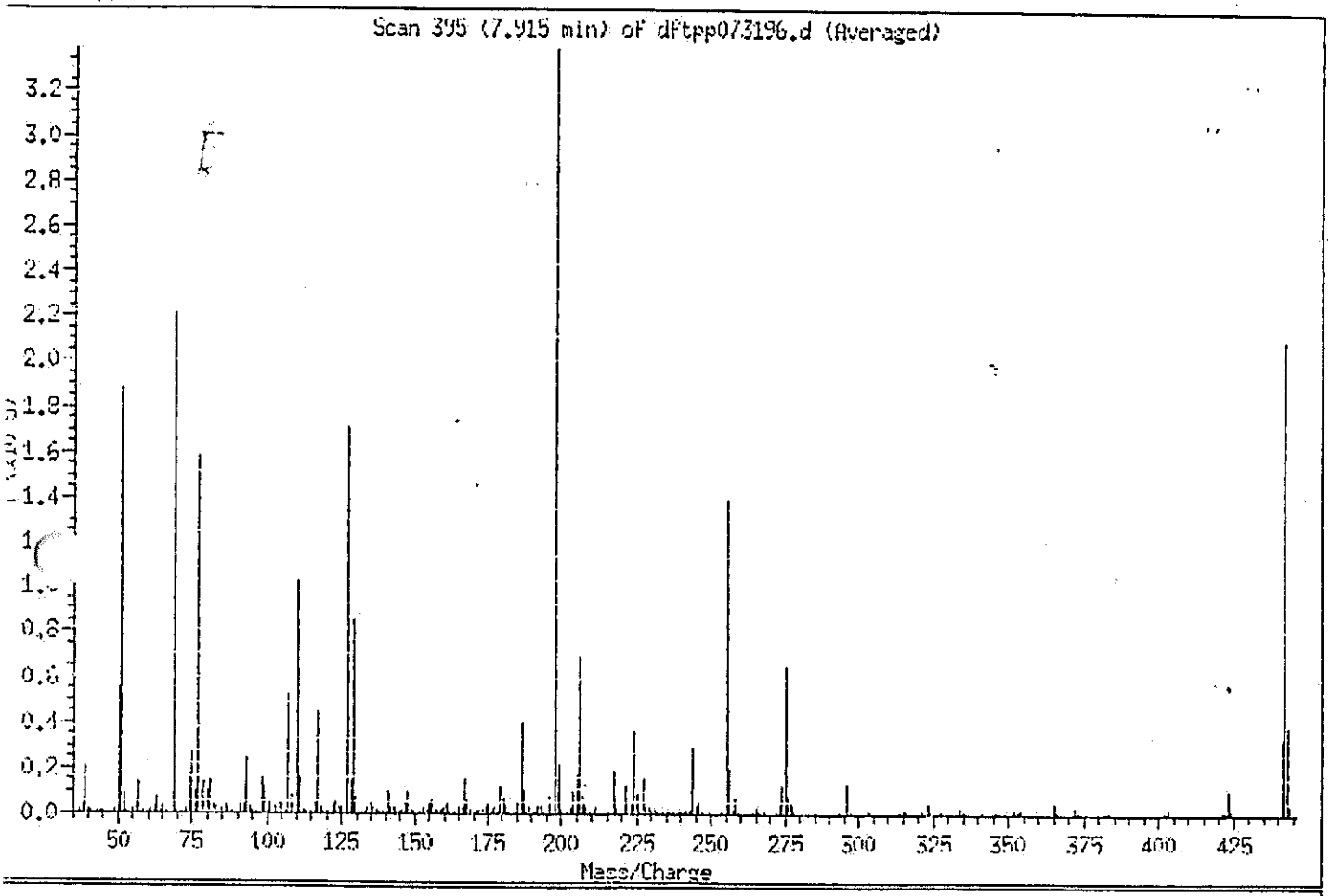
Data File: /chem/msd_2.i/2-073196.b/dftpp073196.d
Date : 31-JUL-96 09:15
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase :
Volume Injected (uL) : 1.0

Column diameter : 2.00



Data File: /chem/msd_2.i/2-073196.b/dftpp073196.d
: 31-JUL-96 09:15
Instrument : msd_2.i
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	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

Data File: /chem/msd_2.i/2-073196.b/dftpp073196.d
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
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	125.00	5590	200.00	1480	284.00	179
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	14118	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	8191	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	106776	133.00	491	210.00	1280	297.00	1009
52.00	8714	134.00	2133	211.00	2793	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	3982	142.00	2988	219.00	293	315.00	1518
63.00	7100	143.00	2586	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	35832	321.00	469
66.00	257	146.00	1609	225.00	9094	322.00	183
67.00	373	147.00	5009	226.00	795	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	29638	153.00	2841	231.00	1392	328.00	462
76.00	9513	154.00	2234	232.00	504	332.00	425
77.00	157069	155.00	4489	233.00	197	333.00	427

Data File: /chem/msd_2.i/2-073196.b/dftpp073196.d
Date : 31-JUL-96 09:15
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase :
Column diameter : 2.00
Volume Injected (uL) : 1.0

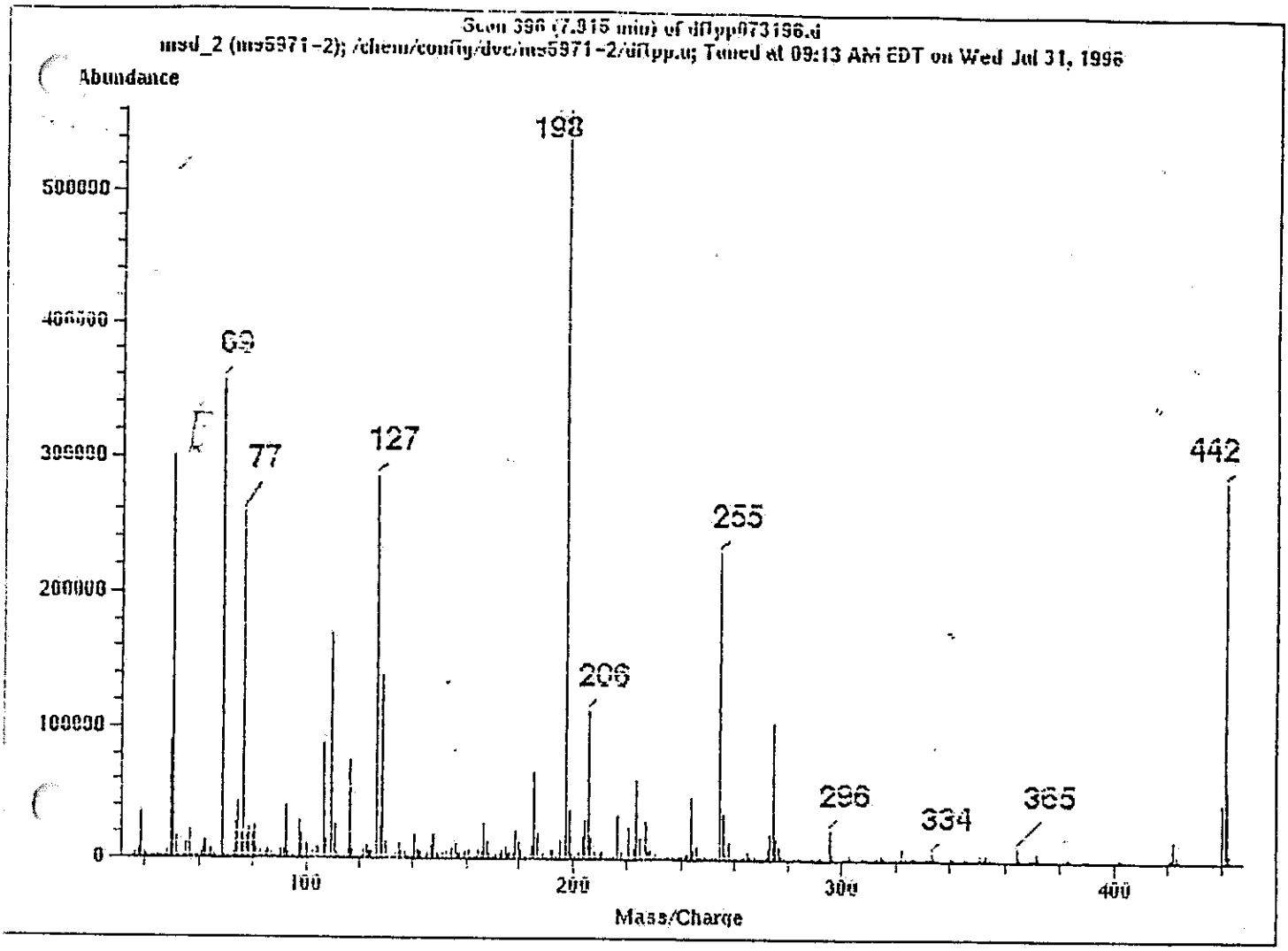
Spectrum: Scan 395-397 (7.915 min) Subtraction Scan 392
Base Peak: 198.00
Number of mass peaks: 295

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
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	1664	236.00	616	336.00	181
81.00	14139	159.00	1473	237.00	1107	341.00	617
82.00	3569	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	1702	352.00	1306
87.00	2013	165.00	2697	243.00	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	1591	251.00	268	373.00	623
96.00	1226	174.00	3431	252.00	345	385.00	706
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	196	183.00	396	263.00	226	420.00	109
107.00	52236	184.00	1339	264.00	106	421.00	1194
108.00	8195	185.00	5435	265.00	2868	422.00	1508
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	33738
114.00	92	190.00	510	272.00	518	442.00	209048

Data File: /chem/msd_2.i/2-073196.b/dftpp073196.d
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		



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	%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
-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
36	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
	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
64	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

tart Cal Date : 28-MAY-93 15:51
nd Cal Date : 31-JUL-1996 13:17
uant Method : ISTD
al Curve Type : Averaged
arget Version : Target 2.20
ntegrator : HP RTE
ethod file : /chem/msd_2.i/2-073196.b/MA-BNA.m
al Date : 01-Aug-1996 06:42 target

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

	Compound	Level 2	Level 3	Level 4	Level 5	Level 6	$\overline{RRF}$	%RSD/R^2
69	3,3'-Dichlorobenzidine	0.178011	0.129331	0.133361	0.142031	0.129781	0.142501	14.3801
71	Benz(a)anthracene	1.147721	1.232071	1.266991	1.293541	1.310181	1.250101	5.1521
70	Bis(2-ethylhexyl) phthalate	2.305141	2.180571	1.922321	2.302961	1.885461	2.119291	9.5981
73	Chrysene	1.179391	1.157701	1.159931	1.129711	1.181421	1.161631	1.7981
74	Di-n-octyl phthalate **	5.966301	5.801271	6.041031	6.446831	5.574621	5.966011	5.4131
75	Benzo(b)fluoranthene	1.461531	1.643851	1.722291	1.847361	2.019471	1.738901	12.0881
76	Benzo(k)fluoranthene	2.054951	1.928601	2.155271	1.921261	1.768231	1.965661	7.4701
77	Benzo(a)pyrene **	1.335551	1.421281	1.454511	1.442991	1.485081	1.427881	3.9581
79	Indeno(1,2,3-cd)pyrene	1.005561	1.174241	1.108801	1.035131	1.050391	1.074821	6.2431
80	Dibenz(a,h)anthracene	0.795691	0.929591	0.907761	0.982831	1.013631	0.925901	9.0741
81	Benzo(g,h,i)perylene	0.913541	1.030651	1.054251	1.011171	1.032721	1.008471	5.4751
1	2-Fluorophenol	1.077191	1.033271	1.061031	1.253521	1.136361	1.112271	7.8671
3	Phenol-d5	0.911151	0.942581	1.040721	1.120151	1.195101	1.061941	9.9531
17	Nitrobenzene-d5	0.404031	0.414541	0.432241	0.439021	0.432681	0.424501	3.4461
35	2-Fluorobiphenyl	1.392561	1.402341	1.449071	1.488081	1.497771	1.445971	3.3211
55	2,4,6-Tribromophenol	0.120961	0.130331	0.141701	0.151141	0.142711	0.137371	8.5801
66	Terphenyl-d14	1.488721	1.552021	1.372061	1.436391	1.390741	1.447991	5.0821

Lab Name: EcoSys, Inc. Client: ACE-SAD

Ledger No: 108040 DFTPP Injection Date: 8/7/96

Lab File ID: DFTPP080796 DFTPP Injection Time: 14:55

Instrument ID: MSD-2 Batch 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.

ata file : /chem/msd_2.i/2-080796.b/DFTPP2-8796.d
ab. Id. : DFTPP02
nj Date : 07-AUG-96 14:55 Autotune Date: 31-Jul-96 09:13:5
perator : GORDON Inst ID: msd_2.i
mp Info : 50NG of dft-05-39
isc Info : TUNE FOR INSTRUMENT msd2.i
omment :
ethod : /chem/msd_2.i/2-080796.b/dftpp288.m
eth Date : 07-Aug-1996 07:09
al Date : Cal File:
ls bottle: 1 QC Sample: DFTPP
il Factor: 1.000 Target Version: Target 2.20
ntegrator: HP RTE Compound Sublist: all.sub
ample Type: WATER

RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (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

C Flag Legend

- Qualifier signal failed the ratio test.

Ecosys, Inc.

TARGET COMPOUNDS

Client Name:
Client Sample ID: DFTPP02
Sample Location:
Lab Sample ID: DFTPP02
Sample Type: WATER
Analysis Type: SV
Data Type: MS DATA
Misc Info: TUNE FOR INSTRUMENT msd2.i

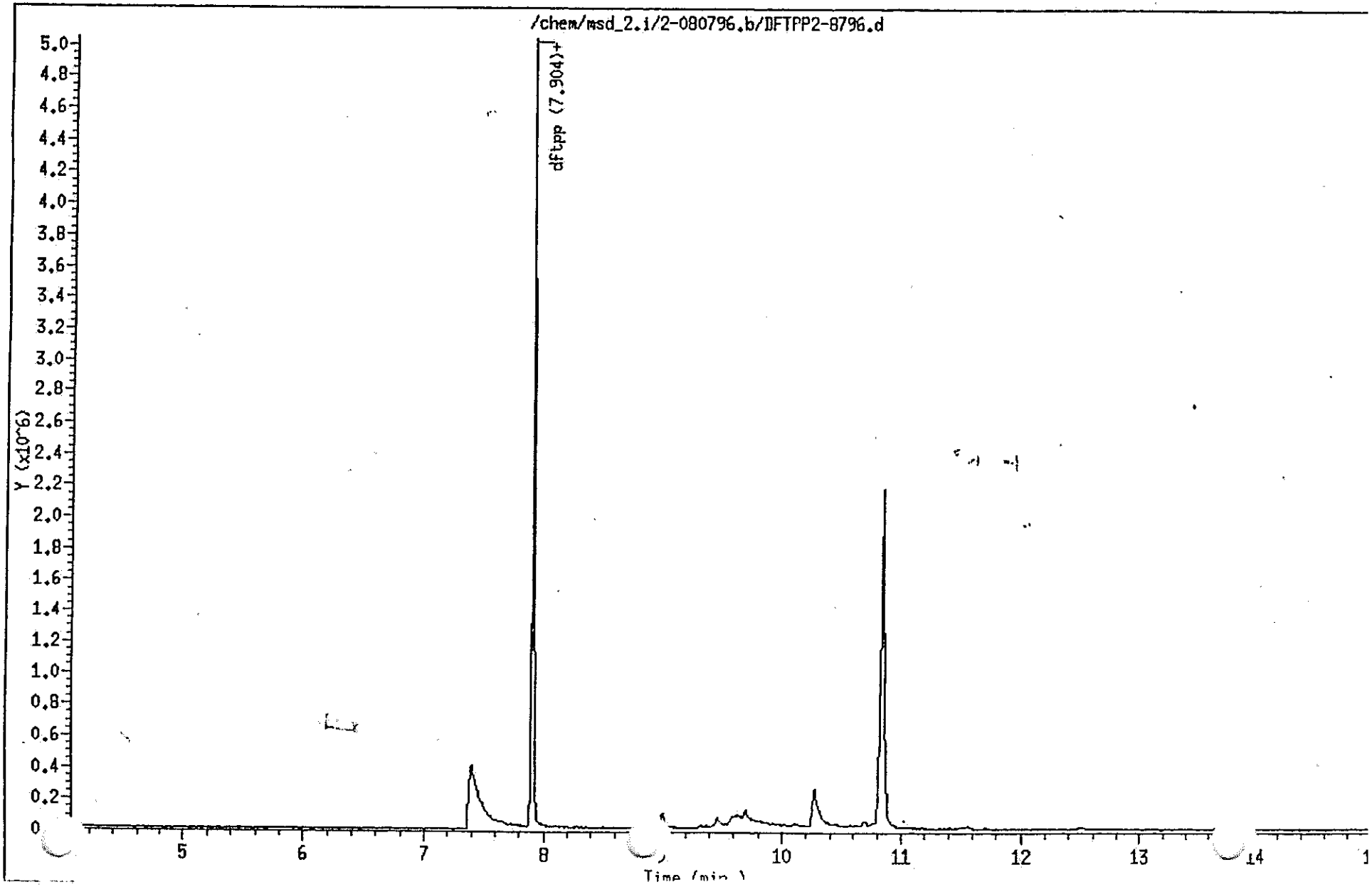
Client SDG: 2-080796.b
Sample Date:
Sample Point:
Date Received:

Level: LOW
Column Number: 1

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

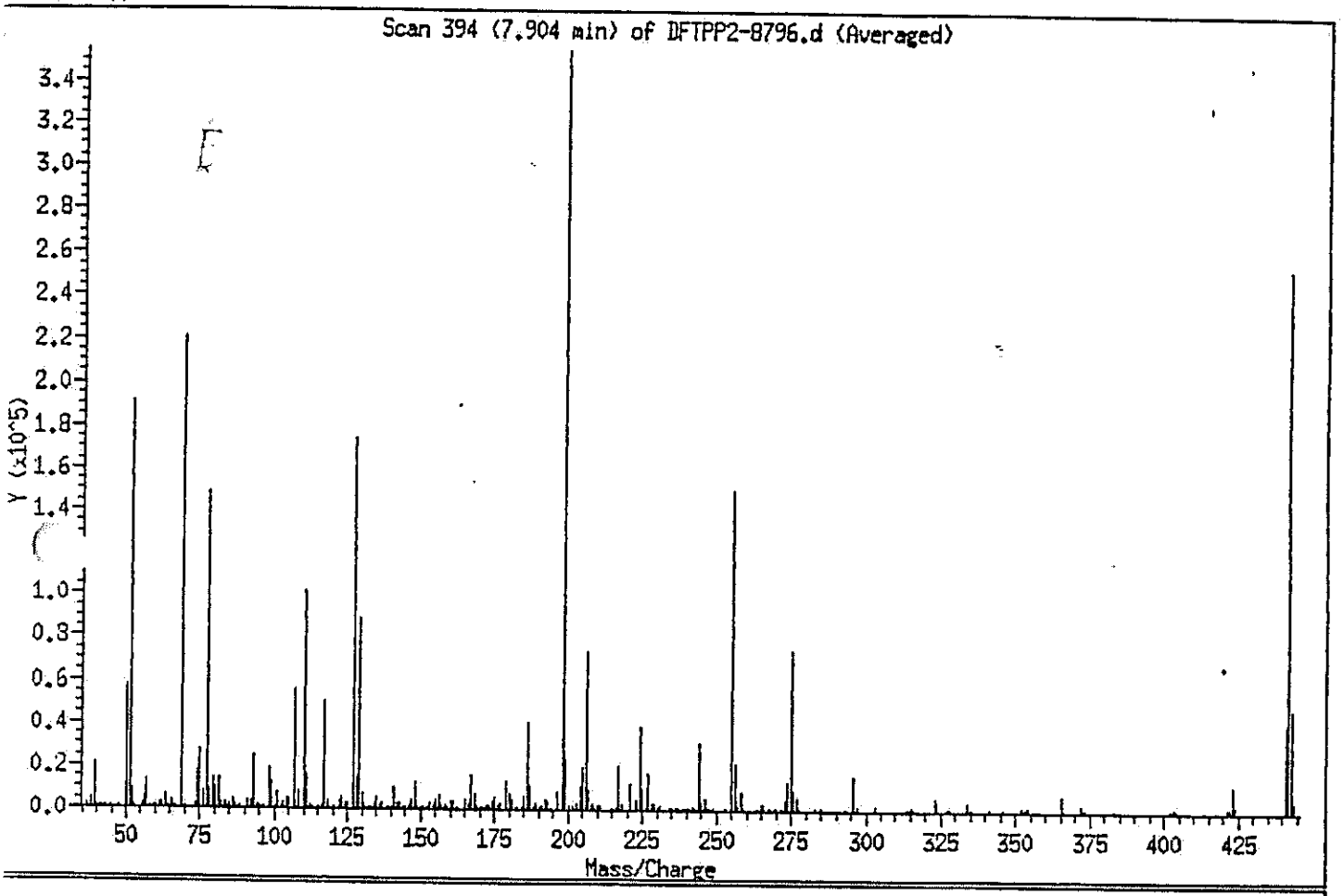
Data File: /chem/msd_2.i/2-080796.b/DFTPP2-8796.d
Date : 07-AUG-96 14:55
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase :
Volume Injected (uL) : 1.0

Column diameter : 2.00



Data File: /chem/msd_2.i/2-080796.b/DFTPP2-8796.d
e : 07-AUG-96 14:55
Instrument : msd_2.i
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

Data File: /chem/msd_2.i/2-080796.b/DFTPP2-8796.d
Date : 07-AUG-96 14:55
Instrument : msd_2.i
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

Data File: /chem/msd_2.i/2-080796.b/DFTPP2-8796.d
Date : 07-AUG-96 14:55
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase :
Column diameter : 2.00
Volume Injected (uL) : 1.0

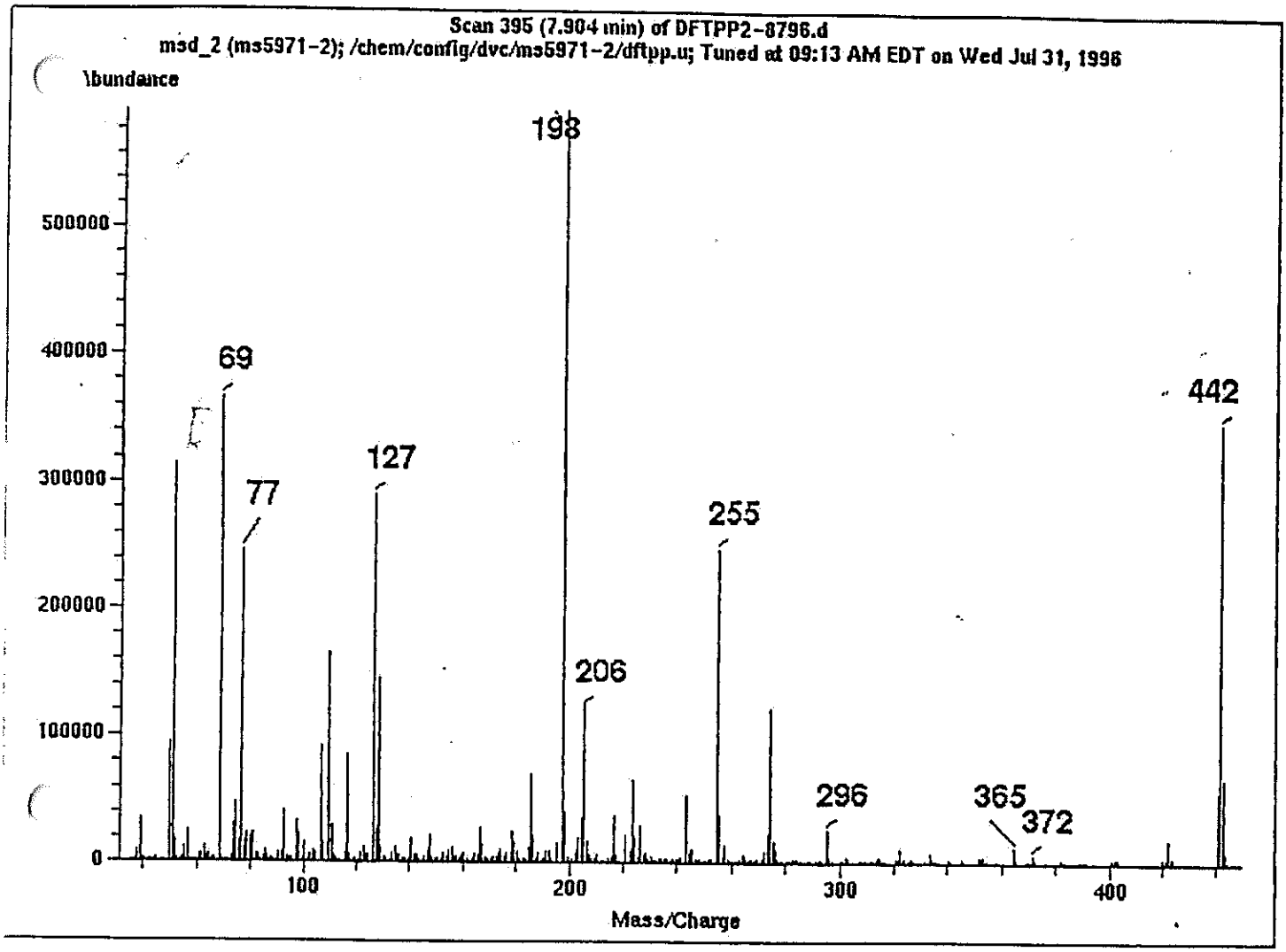
Spectrum: Scan 394-396 (7.904 min) Subtraction Scan 391
Base Peak: 198.00
Number of mass peaks: 301

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.i/2-080796.b/DFTPP2-8796.d
: 07-AUG-96 14:55
Instrument : msd_2.i
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		



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
Lab File ID: BNA0101001.d
Analysis Type: WATER
Lab Sample ID:

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

COMPOUND	RRF	RF80	MIN RRF	%D	MAX %D
2-Fluorophenol	1.112	0.986	0.050	11.3	30.0
Aniline	1.113	1.041	0.050	6.5	30.0
Phenol-d5	1.062	0.954	0.050	10.1	30.0
Phenol **	1.085	1.043	0.050	3.9	30.0
Bis(2-chloroethyl) ether	1.202	1.132	0.050	5.8	30.0
2-Chlorophenol	1.283	1.182	0.050	7.9	30.0
1,3-Dichlorobenzene	1.511	1.513	0.050	0.1	30.0
1,4-Dichlorobenzene **	1.551	1.545	0.050	0.3	30.0
1,2-Dichlorobenzene	1.460	1.427	0.050	2.2	30.0
Benzyl alcohol	0.876	0.915	0.050	4.4	30.0
2-Methylphenol	0.932	0.844	0.050	9.4	30.0
Bis(2-chloroisopropyl) ether	1.021	0.900	0.050	11.8	30.0
N-Nitrosodi-n-propylamine *	0.699	0.692	0.050	1.0	30.0
4-Methylphenol	0.953	0.847	0.050	11.1	30.0
Hexachloroethane	0.671	0.710	0.050	5.8	30.0
Nitrobenzene-d5	0.424	0.427	0.050	0.6	30.0
Nitrobenzene	0.398	0.409	0.050	2.7	30.0
Isophorone	0.683	0.639	0.050	6.5	30.0
2-Nitrophenol **	0.265	0.292	0.050	10.1	30.0
2,4-Dimethylphenol	0.371	0.337	0.050	9.2	30.0
Bis(2-chloroethoxy)methane	0.376	0.369	0.050	1.9	30.0
2,4-Dichlorophenol **	0.313	0.336	0.050	7.4	30.0
Benzoic acid	0.218	0.199	0.050	8.7	30.0
1,2,4-Trichlorobenzene	0.385	0.431	0.050	12.0	30.0
Naphthalene	1.148	1.196	0.050	4.2	30.0
4-Chloroaniline	0.338	0.346	0.050	2.3	30.0
Hexachlorobutadiene **	0.224	0.271	0.050	21.1	30.0
4-Chloro-3-methylphenol **	0.350	0.358	0.050	2.4	30.0
2-Methylnaphthalene	0.745	0.749	0.050	0.6	30.0
Hexachlorocyclopentadiene *	0.259	0.331	0.050	27.7	30.0
2,4,6-Trichlorophenol **	0.322	0.287	0.050	10.6	30.0
2,4,5-Trichlorophenol	0.361	0.340	0.050	6.0	30.0
2-Fluorobiphenyl	1.446	1.299	0.050	10.2	30.0
2-Chloronaphthalene	1.202	1.009	0.050	16.0	30.0
2-Nitroaniline	0.315	0.275	0.050	12.8	30.0
Dimethyl phthalate	1.506	1.284	0.050	14.7	30.0
2,6-Dinitrotoluene	0.312	0.260	0.050	16.8	30.0
Acenaphthylene	1.850	1.541	0.050	16.7	30.0
3-Nitroaniline	0.170	0.142	0.050	16.5	30.0
Acenaphthene **	1.219	1.010	0.050	17.1	30.0
2,4-Dinitrophenol *	0.112	0.116	0.050	4.1	30.0
2,4-Dinitrotoluene	0.397	0.355	0.050	10.5	30.0
4-Nitrophenol *	0.134	0.117	0.050	12.6	30.0
Dibenzofuran	1.643	1.355	0.050	17.6	30.0
Diethyl phthalate	1.537	1.330	0.050	13.4	30.0

Ecosys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd_2.i
Lab File ID: BNA0101001.d
Analysis Type: WATER
Lab Sample ID:

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

COMPOUND	RRF	RF80	MIN RRF	%D	MAX %D
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-TK100BA-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 Officer

Comments:

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 Conc (ug/Kg)	MS Conc (ug/Kg)	MS % Recovery	#	QC Limits Recovery
Phenol	3330	ND	2290	69		26-90
2-Chlorophenol	3330	ND	2300	69		25-102
1,4-Dichlorobezene	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
Acenapthene	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 Conc (ug/Kg)	MSD % Recovery	#	% RPD	#	QC Limits RPD	QC Limits Recovery
Phenol	3330	2500	75		9		35	26-90
2-Chlorophenol	3330	2520	76		9		50	25-102
1,4-Dichlorobezene	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
Acenapthene	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: ACE-SAD

Ledger No(s): 108040 Lab Control Spike: AB37062

Batch No(s): 0807960004

Lab File ID: BNA0301003

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-Dichlorobezene	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 Sample No.	S1 (2FP)	#	S2 (PHL)	#	S3 (NBZ)	#	S4 (FBP)	#	S5 (TBP)	#	S6 (TPH)	#	Total 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

QA/QC Officer

Comments:

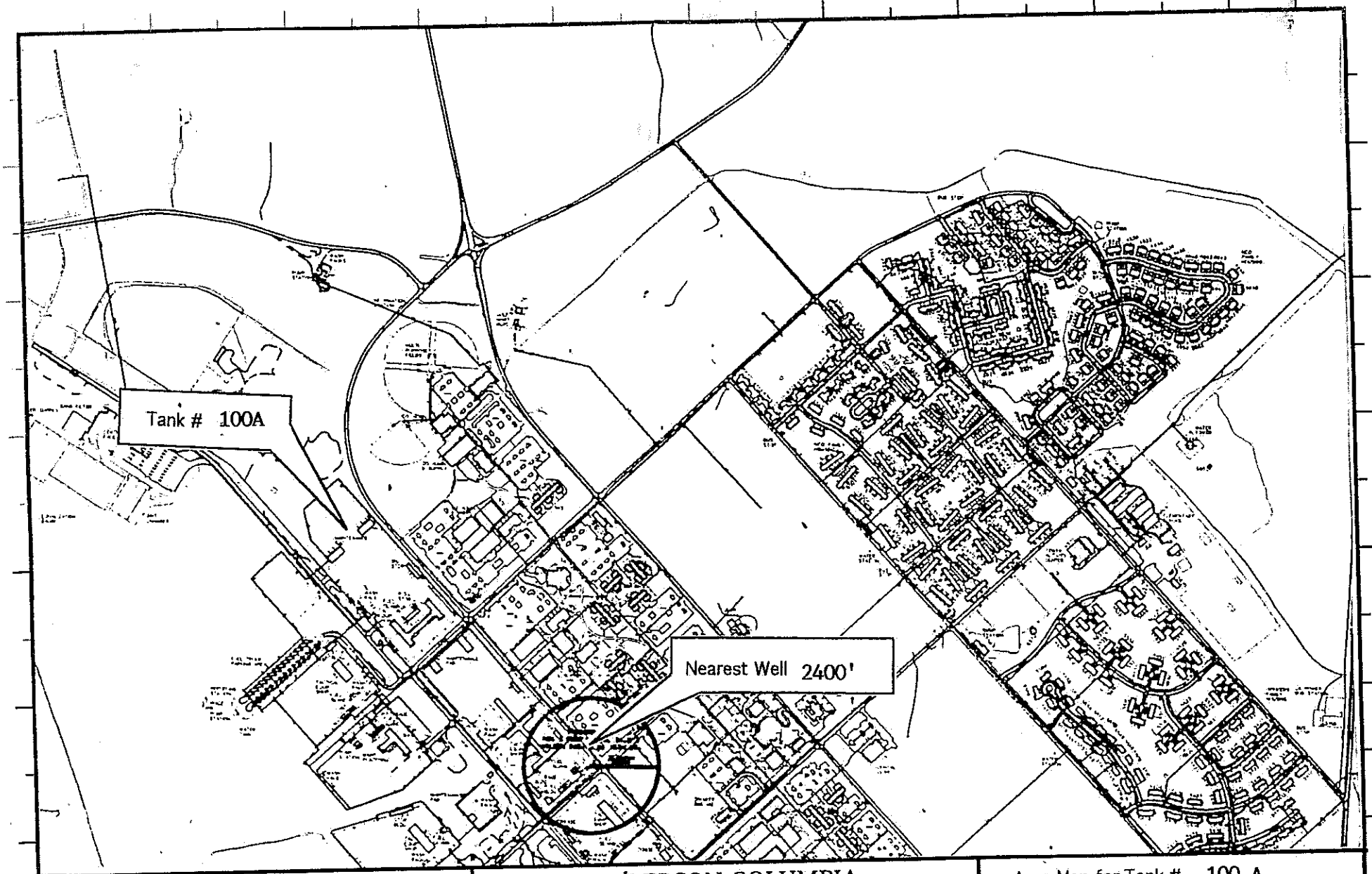
TAB 9

MANIFESTS

NO MANIFESTS ARE APPLICABLE TO THIS CLEAN SITE.

TAB 10

FORT STEWART AREA MAP



LEGEND/REF. DRWG'S

Base map of Fort Stewart.

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

DR. AJR CH'D SRC DR. APP. DFB
ENGR. ENGR'G DEPT.
DATE 9 Oct 96 SCALE 1"=1000'

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

DRAWING NO.: FIGURE 1