

CLOSURE REPORT ADDENDUM

FACILITY ID. NO. 9-089112
USTs #93

APRIL 3, 1998

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

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

CLOSURE REPORT

WASTE OIL TANK
BUILDING 1330, TANK 93
FACILITY ID NUMBER: 9-089112
FT. STEWART, GEORGIA

PREPARED BY:

ANDERSON COLUMBIA ENVIRONMENTAL, INC.

NOVEMBER 1996

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

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

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Prepared by

Anderson Columbia Environmental, Inc.

TAB 1

GEORGIA CLOSURE REPORT FORMS

CLOSURE REPORT ADDENDUM
USTs #93, FACILITY ID. NO. 9-089112

CLOSURE REPORT FORMS

As requested, separate Closure Report Forms for each excavation are attached. Please insert into the Closure Report submitted in November 1996.

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

Joe D. Tanner, Commissioner

Harold P. Rebeck, Director

Environmental Protection Division

REPLY TO:

UNDERGROUND STORAGE TANK MANAGEMENT PROGRAM

4244 INTERNATIONAL PARKWAY

SUITE 100

ATLANTA, GEORGIA 30354

(404)362-7657 FAX (404)362-2654

NOTICE DATE: _____

GEORGIA UNDERGROUND STORAGE TANK (GUST) CLOSURE ACTIVITY FORM

For underground storage tanks (USTs) which will be permanently closed in-place or by removal, this form must be completed and submitted to the "Reply to" address above at least 30 days prior to proposed closure. Modifications of this form will not be accepted. USTs must be closed within 90 days after proposed closure date as approved by EPD. Otherwise, a new Closure Activity Form must be submitted.

I. FACILITY INFORMATION:

Facility Name: FORT STEWART

Contact Person: JOHN H. SPEARS

Telephone: (912) 767-2010/1071

Address (location; P.O. Box not acceptable): FAC 1330

City: FORT STEWART

County: LIBERTY

Zip Code: 31314-4928

Facility ID (if known): 9-089112

Date Tanks Last Used: 16 JUL 96

II. UST INFORMATION: ("Contents" refer to last product contained in UST system)

Tank ID: 93 Tank Size (gal): 2500 Contents: Waste Oil

Tank ID: _____ Tank Size (gal): _____ Contents: _____

Tank ID: _____ Tank Size (gal): _____ Contents: _____

Tank ID: _____ Tank Size (gal): _____ Contents: _____

Tank ID: _____ Tank Size (gal): _____ Contents: _____

III. UST OWNER: (Complete this section even if it is the same as Section I)

UST Owner Name: 3rd Infantry Division (Mech) and Fort Stewart/Env'tl Branch

Contact Person: John H. Spears

Telephone: (912) 767-1071/2010

Mailing Address: 1557 Frank Cochran Dr

City: Fort Stewart

State: GA

Zip Code: 31314-4928

IV. CONTRACTOR: (Company secured to actually close UST system)

Company or Organization Name: Anderson Columbia Environmental Inc

Contractor Representative Name: David Black

Telephone: (904) 455-1196

Address: P.O. Box 1386

City: Lake City

State: FL

Zip Code: 32056

V. CLOSURE NOTIFICATION INFORMATION:

- A. We request approval for the following work at this site. Work will begin not earlier than 30 days after date of this notice. The owner **MUST** notify the USTMP of changes to the work date(s)!

Tank #	Remove		In-place Closure*		Replace		Upgrade**	
	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Q3	X			X				
Work Date	23 Jul 98							

- * In-place closure requires Fire Safety Officer approval. See V.B. (below).
** Upgrade is the addition of such compliance items as cathodic protection, overfill/over spill protection, tank lining, monitoring systems, etc., without removing tanks or piping.

- B. The local Fire Safety Officer must prepare this section, signifying approval of in-place closure.

Name: _____ Signature: _____
Jurisdiction: _____ Date: _____
Comment: _____

- C. Request waiver of 30-day notification? ☐ Yes ☒ No
Why? _____

- D. Comments: UST has been removed; GUST-79 is being submitted per GA EPD, USTMP, comments on closure report.

VI. PARTY TO WHOM COPY OF THIS FORM SHOULD BE RETURNED AFTER USTMP ACTION:

After approval by USTMP, please return copy of this notice to:

☒ the owner (Section III) or ☐ the contractor (Section IV).

VII. UST OWNER CERTIFICATION: (Must be signed by UST owner or authorized agent)

I certify that the information concerning permanent closure of the UST system referenced on this form is true to the best of my belief and knowledge, and that the requirements of Subpart G of Title 40 CFR Part 280 and the Georgia Environmental Protection Division guidance document entitled "So You Want to Close an UST?" (GUST-9, as revised) will be met. I further certify that I am the UST owner or am duly empowered and authorized to execute this document on behalf of the UST owner.

Name (Print): JOHN H. SPEARS
Organization Name: 3rd ID (Mech) - FSGA
Signature: John H. Spears

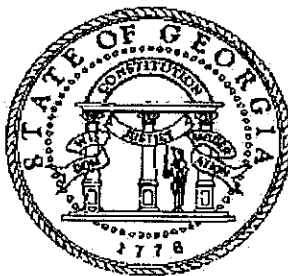
Title: Chief Environmental Branch
Telephone: (912) 767-1071/2016
Date: 4/3/98

For USTM Program Use Only FACILITY ID: _____ Date Into DB _____ Initials _____

Action _____ Comments _____
☐ No Action _____
☐ Waiver - Yes _____
☐ Waiver - No _____
Date: _____ Name: _____

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 1330
Street Address: FAC 1330
Ft. Stewart GA 31314-5000
(city) (state) (zip code)
Facility ID# 9-089112

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: 11/6/96

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: 1 in = 20 feet
- 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: 23-Jul-96
- Tank Information:

Tank #	Tank Size (gallons)	Tank Contents
93	2500	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)

58.21 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. Concrete over Tank 93 being broken and removed.



Photo 2. Tank 93 being removed from the tank pit.

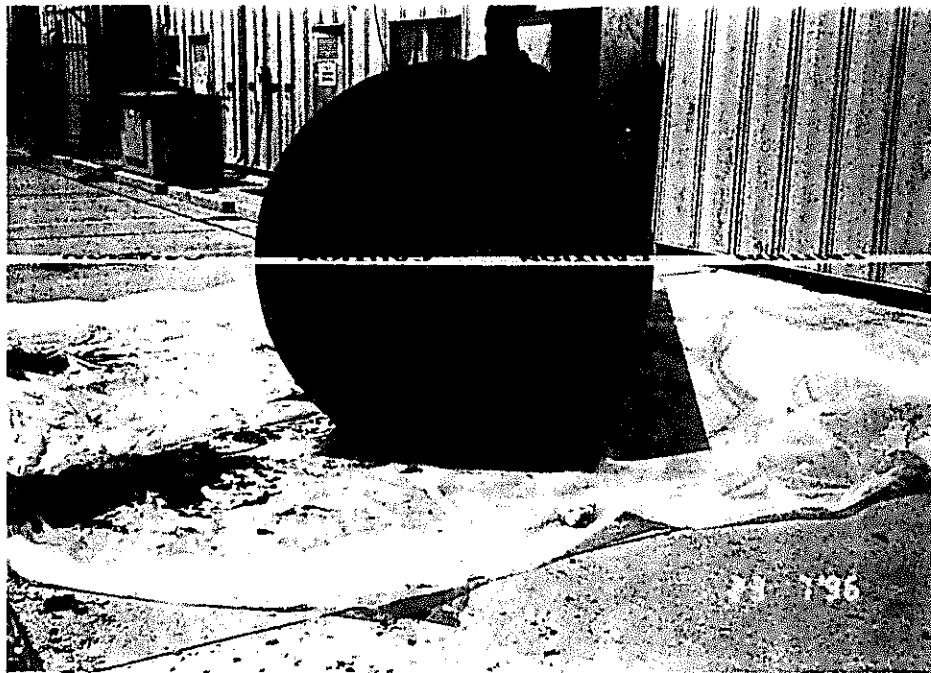


Photo 3. Tank 93 ready for cutting and cleaning.

TAB 5

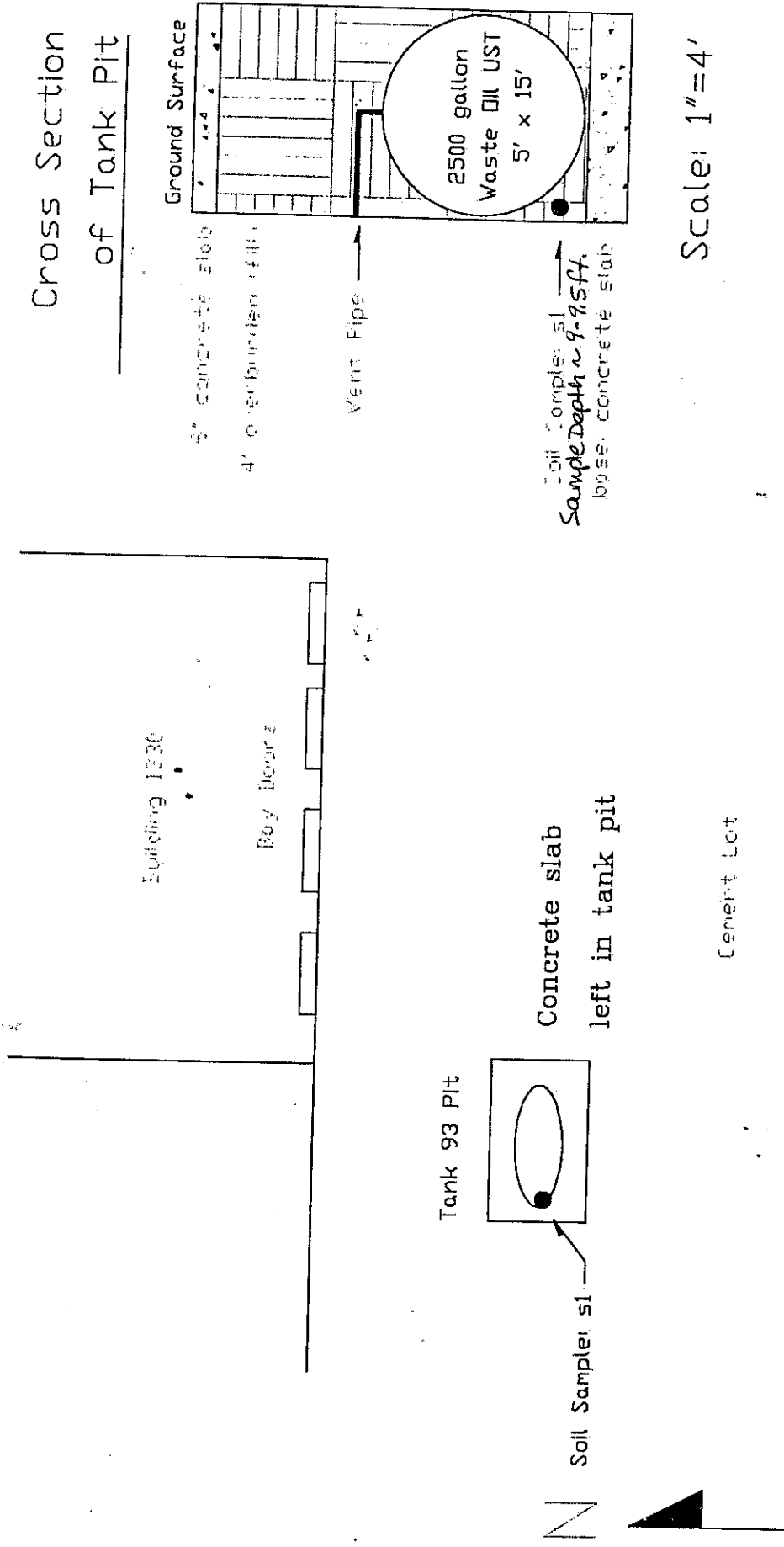
SITE MAPS

CLOSURE REPORT ADDENDUM
UST #93, FACILITY ID. NO. 9-089112

SITE MAPS
TAB 5

A site map that includes the location of the tank pit area, sewer lines, water lines, estimated piping, approximate sampling location, scale, north arrow and tank identification number is provided as Figure (Map) 1. A typical detail of a 2500 gallon waste oil tank is included in Figure 1. This detail indicates dispensers were not used with this tank. Figure 2, provided by the contractor, depicts the sampling location both in plan and section view and includes the sample number and the corresponding of approximately 9 to 9.5 feet.

Please insert the figures provided in this addendum into the Closure Report submitted to the USTMP in November 1996 as Tab 5.



LEGEND/REF. DRWG.'S

ANDERSON COLUMBIA
ENVIRONMENTAL, INC.
P.O. BOX 1388 LAKE CITY, FLORIDA 32057 (904) 755-1196

DR. AJR CH'D DR. APP.
ENGR. ENGR.'S DEPT.
DATE 23 July 96 SCALE 1"=20'-0"

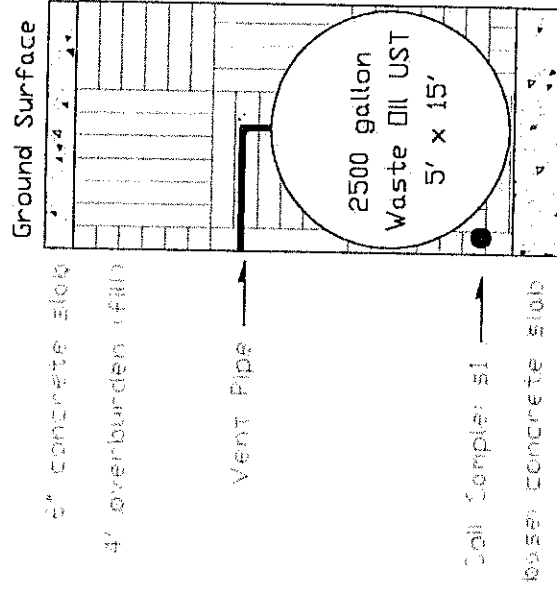
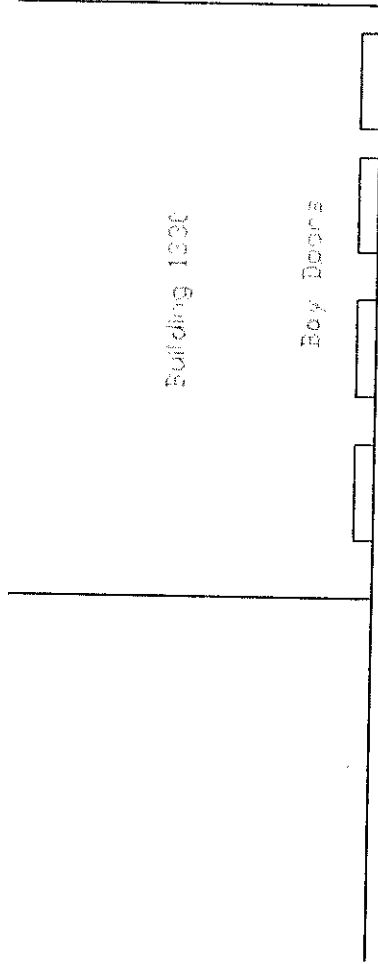
JOB# 9101 - FT. STEWART LOCATION: BLDG. #1330

TANK #93 - 2500 GAL. U.S.T. 13

FAC. ID. 9-089112

DRAWING NO.: FIGURE:

Cross Section of Tank Pit



Scale: 1"=4'

Cement Lot

LEGEND/REF. DRWG.'S

ANDERSON COLUMBIA
ENVIRONMENTAL, INC.
P.O. BOX 1386 LAKE CITY, FLORIDA 32056 (904) 755-1198

DR. AJR CH'D DR. APP.
ENGR. ENGR.'S DEPT.
DATE 23 July 96 SCALE 1"=20'-0"

JOB# 8101 - FT. STEWART LOCATION: BLDG. #1330
TANK #93 - 2500 GAL. U.S.T.

DRAWING NO.: FIGURE:

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: 9-089112

OWNER'S ID: 197

INITIAL DATE RECEIVED: 5/6/86

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 1330
Street Address : FAC 1330
City : FT STEWART State: GEORGIA Zip Code: 31314-5000
County : LIBERTY Latitude: _____ Longitude: _____
Phone : _____

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

FACILITY TYPE (S):

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

CONTACT PERSON IN CHARGE OF TANK (S):

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

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part I: Facility Data

FINANCIAL RESPONSIBILITY:

FACILITY ID NUMBER:

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

Primary Financial Responsibility Mechanism (check one)

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

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

Financial Responsibility Provider (primary):

Name: US Army

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

Mechanism Id Number: _____

Mechanism Anniversary Date: _____

Deductible Financial Responsibility, if any: (check one)

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

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

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

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

Financial Responsibility Provider (deductible):

Name: _____

Address: _____ City: _____ State: _____

Mechanism Id Number: _____

Mechanism Anniversary Date: _____

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part III: Certifications

OATH OF

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

Installer:

Company

Company Address

Authorized Representative

Signature

Date

Title

Telephone Number (include Area Code)

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

Owner:

John H. Spears

Owner Name

Chief, Environmental Branch

Title

Owner's Signature

Date

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089112				
TANK ID	93				
Status of Tank					
Currently in Use	X				
Temp. Out of Use					
Perm. Out of Use	X				
Date of Installation	1-Jan-81				
Age	15				
Est. Total Capacity	2500				
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	9-089112										
TANK ID	93										
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	1631496	1631496									
Est. Date Closed	2331496	2331496									
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 Gauging											
Inter. Mon./Double Wall											
Groundwater Monitoring											
Manual Tank Gauging											
Vapor Monitoring											
Inter. Mon./Sec. Cont.											
Auto. Line Leak Detect.											
Line Tightness Testing											
Other Method											
Other Description											
Spill and Overfill											
Date Overfill Device											
Date Spill Device											
Installer Certification											
Name											
Position											
Company											
Date											

TAB 6

FIELD ASSESSMENT METHODS

SOIL SAMPLES

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

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

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

GROUNDWATER SAMPLES

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

TAB 7

ANALYTICAL DATA

TAB 7 - Laboratory Analytical Data

Delivery Order #101

Fort Stewart, Georgia

Tank Number 93

Building Number 1330

<i>Method</i>	9073	418.1	8020A	8270B
Sample ID	TRPH	TPH	BTEX	Semi-Volatile Organics.
<i>unit</i>	ppm	ppm	ppb	ppb
8101-TK93-S1		63	bdl	bdl
bdl= below method detection limits				

**Fort Stewart is in an area of 'High or Average Groundwater pollution susceptibility' and these tanks are approximately 500 feet from a withdrawal point. Comparisons with Table A (which follows) reveals that the site is clean with respect to BTEX and PAH constituents. Note the low level of TPH that was detected.

58.21 tons of petroleum contaminated soil was removed from the Tank 93 pit.

Complete Data Package Follows

Table A

Petroleum Constituents and Soil Threshold Levels^a

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

CONSTITUENT	AVERAGE OR HIGHER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA ^b (Where public water supplies exist within 2.0 miles and/or non-public supplies exist within 0.5 miles)		LOWER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA ^c (Where public water supplies exist within 1.0 mile and/or non-public supplies exist within 0.25 mile)	
	≤500 feet to withdrawal point	>500 feet to withdrawal point	≤500 feet to withdrawal point	>500 feet to withdrawal point
VOLATILE ORGANIC COMPOUNDS				
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

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

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

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

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

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

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

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

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

TRANSMITTAL OF SAD LABORATORY REPORT(S)

TO: Commander, Savannah District
US Army Corps of Engineers
ATTN: CESAS-PM-H
Mr. Brent Rose
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 23 July 1996 from Ft. Stewart.

2. If you have any questions, please call Mr. Blaise Willis at 770-919-2295.

SUBMITTED BY:

SIGNATURE

DATE:

BLAISE WILLIS
Supervisory Chemist

Blaise Willis

29 Aug 1996

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

District - SAVANNAH
Date Received - 96/07/25
Date Reported - 96/08/22 15:05:25
FT. STEWART ARMY AF
Requisition - PMS-96-109
Work Order - 7996 Job Number - 4033

Lab #	Field ID	Date Sampled	Time Sampled
29628	8101-TK74-S1	96/07/23	12:30

Test Performed	Result	Units	Tested By	Test Date
TOTAL SOLIDS, % OF WET	86.20	%	ECO	96/07/29
AROMATIC VOLATILE ORGANICS	*		ECO	96/08/05
SEMIVOLATILE ORGANICS GC/MS	*		ECO	96/08/02
TRPH	9.3	MG/KG	ECO	96/07/31

*NOTE: See Attached

Sampled by District Personnel

Checked by: MS

Signed by:

Blaise Willis
Blaise Willis
Chemist

Page 1 of 3

Lab # Field ID

22530 TRIP BLANK

Date Sampled

96/07/23

Time Sampled

00:00

Test Performed

AROMATIC VOLATILE ORGANICS

Result Units

 *

Tested Test
By Date

ECO 96/08/05

*NOTE: See Attached

Sampled by District Personnel

Checked by: MS

Signed by:

Blaise Willis

Blaise Willis
Chemist

S(t 3 of 3

ANDERSON COLUMBIA
ENVIRONMENTAL, INC.
CLAIM OF CUSTODY RECEIPT

12/27/93

Page 1 of 1
4033

Project No. 8101 Project Name Ft. Stewart

Sample(s) Signature Andrew Powers

Sample Number	Date	Time	g	cc	Sample Location	No. of Containers	Preservative	8020	8270	4/B.1	Remarks
8101-TE74-S1	3/3/94	1230	X		Tank P.7	3	None	✓	✓	✓	Closure sample for Tank 74
8101-TK93-S1	23/1/94	1445	X		Tank P.1	3	None	✓	✓	✓	Closure sample for Tank 93
1610-TE74-S1	3/3/94	1445	X		Tank P.1	3	None	✓	✓	✓	Closure sample for Tank 93
Trip Blank	23/1/94					1	None				Distilled H ₂ O
Temp Vial	23/1/94					1	None				
Relinquished by: Andrew Powers	Date / Time: 23/1/94 / 1735	Accepted by: [Signature]	Relinquished by:	Date / Time:	Received by:						
Relinquished by:	Date / Time:	Accepted by:	Relinquished by:	Date / Time:	Received by:						
Relinquished by:	Date / Time:	Accepted by:	Relinquished by:	Date / Time:	Received by:						

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

DATE: 7/26/96

Number of coolers 1

Returned cooler(s) to: Anders, Columbia

PROJECT: Fr. Stewart

W.O.#

JOB#

4033

Coolers(s) opened by (print name) Brenda C. McDonald

(sign) [Signature]

1. Did cooler come with shipping slip?

If yes, enter Tracking Number here

1020383210

☒ yes | | no

2. Were custody seals on out side of cooler?

How many? 2 Date on seal(s) 7/23/96 Name on seal(s) P

☒ yes | | no

3. Were custody seals unbroken upon receipt?

☒ yes | | no

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

☒ yes | | no

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

☒ yes | | no

6. Temperature of sample(s) upon receipt: 9c

7. Describe cooler packing: Bubble Bags

8. Did all sample containers arrive unbroken?

☒ yes | | no

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

☒ yes | | no

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

☒ yes | | no

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

☒ yes | | no

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

| | yes | | no ☒ unk

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

☒ yes | | no

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

If no, list field ID#

☒ yes | | no | | N/A

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

2 days

16. Number of Samples: 3

Sample Type: ☒ soil | | water | | other

SAMPLE ANALYSIS PERFORMED BY: FLS Jy15

TAT

[Signature]

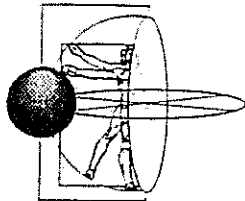
COMMENTS:

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

☒ yes | | no

LAB NUMBER(S): 29620-30

SIGNATURE: [Signature]



ECOSYS

LABORATORY SERVICES

ACE SAD

ACE SAD CLIENT NAME: FT. STEWART

ACE SAD JOB NUMBER: 4033

EcoSys LEDGER NUMBER: 107999

SAMPLE INFORMATION:

ACE SAD SAMPLE NAME	EcoSys SAMPLE NUMBER	MATRIX	ANALYSIS
8101-TK74-S1	AB36433	SOIL	BTEX(8020A), SVOC(8270B), TPH(418.1)
8101-TK93-S1	AB36434	SOIL	BTEX(8020A), SVOC(8270B), TPH(418.1)
TRIP BLANK #9	AB36435	WATER	BTEX(8020A)
METHOD BLANK	AB36436	SOIL	BTEX(8020A), SVOC(8270B), TPH(418.1)
NA	AB36720 MS	SOIL	BTEX(8020A)
NA	AB36721 MSD	SOIL	BTEX(8020A)
8101-TK74-S1	AB36433 REF	SOIL	BTEX(8020A)
NA	AB36719 LCS	SOIL	BTEX(8020A)
NA	AB36700 MS	SOIL	SVOC(8270B)
NA	AB36701 MSD	SOIL	SVOC(8270B)
8101-TK94C-S1	AB36628 REF	SOIL	SVOC(8270B)
NA	AB36702 LCS	SOIL	SVOC(8270B)
NA	MS	SOIL	TPH(418.1)
NA	MSD	SOIL	TPH(418.1)
CAFB-1-932-01	AB35825 REF	SOIL	TPH(418.1)
NA	LCS	SOIL	TPH(418.1)
BFS-71996	AB36322 DUP	SOIL	TPH(418.1)
METHOD BLANK	AB36437	WATER	BTEX(8020A)
NA	AB36717 MS	WATER	BTEX(8020A)
NA	AB36718 MSD	WATER	BTEX(8020A)
TRIP BLANK	AB36435 REF	WATER	BTEX(8020A)
NA	AB36716 LCS	WATER	BTEX(8020A)

QUALITY CONTROL PROBLEMS

ANALYSIS	QC PROBLEM	CORRECTIVE ACTION TAKEN
BTEX (SOIL)	RPD outside QC Limits	Results were accepted because compounds were not present in sample. Also, MS/MSD results and LCS were within control limits.
TRPH 418.1 (SOIL)	Duplicate Sample AB36322 was not an USACE-SAD sample.	No action necessary.

CLINICAL LABORATORIES
ENVIRONMENTAL LABORATORIES
MOBILE LABORATORIES
FIELD SAMPLING

1412 Oakbrook Drive
Suite 105
Dorcross, 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 107999
P.O. Number
Date Received 07/26/96
Time Received 10:31
Reporting Date 08/20/96

Ledger Comment This is an amended report. Soil Results are reported on a dry weight basis.

Lab Sample ID AB36433 Client Site # 29628
Project # 4033 Client Sample # 8101-TK74-S1
Project Name FT. STEWART
Sampling Date/Time 07/23/96 12:30

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/02/96		Batch 0802960008			
8270B	PHENOL	\$06013	Below MDL	383	ug/Kg	1.0	108-95-2	GC	08/02/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	383	ug/Kg	1.0	111-44-4	GC	08/02/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	95-57-8	GC	08/02/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	541-73-1	GC	08/02/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	106-46-7	GC	08/02/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	95-50-1	GC	08/02/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	383	ug/Kg	1.0	108-60-1	GC	08/02/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	95-48-7	GC	08/02/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	106-44-5	GC	08/02/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	383	ug/Kg	1.0	621-64-7	GC	08/02/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	383	ug/Kg	1.0	67-72-1	GC	08/02/96
8270B	NITROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	98-95-3	GC	08/02/96
8270B	ISOPHORONE	\$06013	Below MDL	383	ug/Kg	1.0	78-59-1	GC	08/02/96
8270B	2-NITROPHENOL	\$06013	Below MDL	766	ug/Kg	1.0	88-75-5	GC	08/02/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	105-67-9	GC	08/02/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	383	ug/Kg	1.0	111-91-1	GC	08/02/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	120-83-2	GC	08/02/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	120-82-1	GC	08/02/96
8270B	NAPHTHALENE	\$06013	Below MDL	383	ug/Kg	1.0	91-20-3	GC	08/02/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	106-47-8	GC	08/02/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	383	ug/Kg	1.0	87-68-3	GC	08/02/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	766	ug/Kg	1.0	59-50-7	GC	08/02/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	383	ug/Kg	1.0	91-57-6	GC	08/02/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	383	ug/Kg	1.0	77-47-4	GC	08/02/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	88-06-2	GC	08/02/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	95-95-4	GC	08/02/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	383	ug/Kg	1.0	91-58-7	GC	08/02/96
8270B	2-NITROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	88-74-4	GC	08/02/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	131-11-3	GC	08/02/96

Lab Sample ID AB36433
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time 07/23/96 12:30

Client Site # 29628
 Client Sample # 8101-TK74-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL									

Prep Date 08/02/96 Batch 0802960008

8270B	ACENAPHTHYLENE	\$06013	Below MDL	383	ug/Kg	1.0	208-96-8	GC	08/02/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	383	ug/Kg	1.0	606-20-2	GC	08/02/96
8270B	3-NITROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	99-09-2	GC	08/02/96
8270B	ACENAPHTHENE	\$06013	Below MDL	383	ug/Kg	1.0	83-32-9	GC	08/02/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	1914	ug/Kg	1.0	51-28-5	GC	08/02/96
8270B	4-NITROPHENOL	\$06013	Below MDL	1914	ug/Kg	1.0	100-02-7	GC	08/02/96
8270B	DIBENZOFURAN	\$06013	Below MDL	383	ug/Kg	1.0	132-84-9	GC	08/02/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	383	ug/Kg	1.0	121-14-2	GC	08/02/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	84-68-2	GC	08/02/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	383	ug/Kg	1.0	7005-72-3	GC	08/02/96
8270B	FLUORENE	\$06013	Below MDL	383	ug/Kg	1.0	86-73-7	GC	08/02/96
8270B	4-NITROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	100-01-6	GC	08/02/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1914	ug/Kg	1.0	534-52-1	GC	08/02/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	383	ug/Kg	1.0	86-30-6	GC	08/02/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	383	ug/Kg	1.0	101-55-3	GC	08/02/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	118-74-1	GC	08/02/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	1914	ug/Kg	1.0	87-86-5	GC	08/02/96
8270B	PHENANTHRENE	\$06013	Below MDL	383	ug/Kg	1.0	85-01-8	GC	08/02/96
8270B	ANTHRACENE	\$06013	Below MDL	383	ug/Kg	1.0	120-12-7	GC	08/02/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	84-74-2	GC	08/02/96
8270B	FLUORANTHENE	\$06013	Below MDL	383	ug/Kg	1.0	208-44-0	GC	08/02/96
8270B	PYRENE	\$06013	Below MDL	383	ug/Kg	1.0	129-00-0	GC	08/02/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	85-66-7	GC	08/02/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	766	ug/Kg	1.0	91-94-1	GC	08/02/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	383	ug/Kg	1.0	56-55-3	GC	08/02/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	117-81-7	GC	08/02/96
8270B	CHRYSENE	\$06013	Below MDL	383	ug/Kg	1.0	218-01-9	GC	08/02/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	117-84-0	GC	08/02/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	383	ug/Kg	1.0	205-99-2	GC	08/02/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	383	ug/Kg	1.0	207-08-9	GC	08/02/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	383	ug/Kg	1.0	50-32-8	GC	08/02/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	383	ug/Kg	1.0	183-39-5	GC	08/02/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	383	ug/Kg	1.0	53-70-3	GC	08/02/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	383	ug/Kg	1.0	191-24-2	GC	08/02/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	49	%	REC	1.0	357-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	41	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	43	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	54	%	REC	1.0	321-80-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	65	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	77	%	REC	1.0	1718-51-0	GC	08/02/96
8270B	CARBAZOLE	\$06013	Below MDL	383	ug/Kg	1.0	88-74-8	GC	08/02/96
BTEX (GC) SOIL									
				Prep Date 08/05/96			Batch 080596BS		
8020A	BENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	71-43-2	DTA	08/05/96
8020A	TOLUENE	\$08006	Below MDL	1.2	ug/Kg	1.0	108-88-3	DTA	08/05/96
20A	ETHYLBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	100-41-4	DTA	08/05/96

Lab Sample ID AB36433
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time 07/23/96 12:30

Client Site # 29628
 Client Sample # 8101-TK74-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTX (GC) SOIL						Prep Date 08/05/96		Batch 080596BS	
8020A	XYLENES (TOTAL)	\$08006	35	1.2	ug/Kg	1.0	1330-20-7	DTA	08/05/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	55	%	REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	63	%	REC	1.0	480-00-4	DTA	08/05/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	108-90-7	DTA	08/05/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	95-50-1	DTA	08/05/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	541-73-1	DTA	08/05/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	106-46-7	DTA	08/05/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.2	ug/Kg	1.0	1634-04-4	DTA	08/05/96
						Prep Date 07/31/96		Batch 073196	
418.1	TPH (FTIR) SOIL	08008	9.3	5.8	mg/Kg	1.0		ML	07/31/96
						Prep Date 07/29/96		Batch 072996	
160.3	% TOTAL SOLIDS SOIL (N/C)	09099	86.2	0.1	%	1.0		MN	07/29/96

Lab Sample ID AB36434
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time 07/23/96 14:45

Client Site # 29629
 Client Sample # 8101-TK93-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL						Prep Date 08/02/96		Batch 0802960008	
8270B	PHENOL	\$06013	Below MDL	383	ug/Kg	1.0	108-95-2	GC	08/03/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	383	ug/Kg	1.0	111-44-4	GC	08/03/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	95-57-8	GC	08/03/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	541-73-1	GC	08/03/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	106-46-7	GC	08/03/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	95-50-1	GC	08/03/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	383	ug/Kg	1.0	108-60-1	GC	08/03/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	95-48-7	GC	08/03/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	106-44-5	GC	08/03/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	383	ug/Kg	1.0	821-84-7	GC	08/03/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	383	ug/Kg	1.0	87-72-1	GC	08/03/96
8270B	NITROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	98-95-3	GC	08/03/96
8270B	ISOPHORONE	\$06013	Below MDL	383	ug/Kg	1.0	78-59-1	GC	08/03/96
8270B	2-NITROPHENOL	\$06013	Below MDL	767	ug/Kg	1.0	88-75-5	GC	08/03/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	105-67-9	GC	08/03/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	383	ug/Kg	1.0	111-91-1	GC	08/03/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	120-83-2	GC	08/03/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	120-82-1	GC	08/03/96
8270B	NAPHTHALENE	\$06013	Below MDL	383	ug/Kg	1.0	81-20-3	GC	08/03/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	106-47-8	GC	08/03/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	383	ug/Kg	1.0	87-68-3	GC	08/03/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	767	ug/Kg	1.0	59-50-7	GC	08/03/96

Lab Sample ID AB36434
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time 07/23/96 14:45

Client Site # 29629
 Client Sample # 8101-TK93-S1

N	IOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution	CAS #	ANALYST	DATE OF
							Factor			ANALYSIS
SEMI (GC/MS) SOIL							Prep Date 08/02/96	Batch 0802960008		
8270B		2-METHYLNAPHTHALENE	\$06013	Below MDL	383	ug/Kg	1.0	91-57-6	GC	08/03/96
8270B		HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	383	ug/Kg	1.0	77-47-4	GC	08/03/96
8270B		2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	88-06-2	GC	08/03/96
8270B		2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	95-95-4	GC	08/03/96
8270B		2-CHLORONAPHTHALENE	\$06013	Below MDL	383	ug/Kg	1.0	91-58-7	GC	08/03/96
8270B		2-NITROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	88-74-4	GC	08/03/96
8270B		DIMETHYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	131-11-3	GC	08/03/96
8270B		ACENAPHTHYLENE	\$06013	Below MDL	383	ug/Kg	1.0	208-96-8	GC	08/03/96
8270B		2,6-DINITROTOLUENE	\$06013	Below MDL	383	ug/Kg	1.0	606-20-2	GC	08/03/96
8270B		3-NITROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	99-09-2	GC	08/03/96
8270B		ACENAPHTHENE	\$06013	Below MDL	383	ug/Kg	1.0	83-32-9	GC	08/03/96
8270B		2,4-DINITROPHENOL	\$06013	Below MDL	1916	ug/Kg	1.0	54-28-5	GC	08/03/96
8270B		4-NITROPHENOL	\$06013	Below MDL	1916	ug/Kg	1.0	100-02-7	GC	08/03/96
8270B		DIBENZOFURAN	\$06013	Below MDL	383	ug/Kg	1.0	132-64-9	GC	08/03/96
8270B		2,4-DINITROTOLUENE	\$06013	Below MDL	383	ug/Kg	1.0	121-14-2	GC	08/03/96
8270B		DIETHYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	84-66-2	GC	08/03/96
8270B		4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	383	ug/Kg	1.0	7005-72-3	GC	08/03/96
8270B		FLUORENE	\$06013	Below MDL	383	ug/Kg	1.0	86-73-7	GC	08/03/96
8270B		4-NITROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	100-01-6	GC	08/03/96
8270B		2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1916	ug/Kg	1.0	534-52-1	GC	08/03/96
8270B		N-NITROSODIPHENYLAMINE	\$06013	Below MDL	383	ug/Kg	1.0	86-30-6	GC	08/03/96
8270B		4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	383	ug/Kg	1.0	101-55-3	GC	08/03/96
8270B		HEXACHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	118-74-1	GC	08/03/96
8270B		PENTACHLOROPHENOL	\$06013	Below MDL	1916	ug/Kg	1.0	87-86-5	GC	08/03/96
8270B		PHENANTHRENE	\$06013	Below MDL	383	ug/Kg	1.0	85-01-8	GC	08/03/96
8270B		ANTHRACENE	\$06013	Below MDL	383	ug/Kg	1.0	120-12-7	GC	08/03/96
8270B		DI-N-BUTYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	84-74-2	GC	08/03/96
8270B		FLUORANTHENE	\$06013	Below MDL	383	ug/Kg	1.0	206-44-0	GC	08/03/96
8270B		PYRENE	\$06013	Below MDL	383	ug/Kg	1.0	129-00-0	GC	08/03/96
8270B		BUTYL BENZYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	85-68-7	GC	08/03/96
8270B		3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	767	ug/Kg	1.0	91-94-1	GC	08/03/96
8270B		BENZO(A)ANTHRACENE	\$06013	Below MDL	383	ug/Kg	1.0	56-55-3	GC	08/03/96
8270B		BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	117-81-7	GC	08/03/96
8270B		CHRYSENE	\$06013	Below MDL	383	ug/Kg	1.0	218-01-9	GC	08/03/96
8270B		DI-N-OCTYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	117-84-0	GC	08/03/96
8270B		BENZO(B)FLUORANTHENE	\$06013	Below MDL	383	ug/Kg	1.0	205-99-2	GC	08/03/96
8270B		BENZO(K)FLUORANTHENE	\$06013	Below MDL	383	ug/Kg	1.0	207-08-9	GC	08/03/96
8270B		BENZO(A)PYRENE	\$06013	Below MDL	383	ug/Kg	1.0	50-32-8	GC	08/03/96
8270B		INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	383	ug/Kg	1.0	193-39-5	GC	08/03/96
8270B		DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	383	ug/Kg	1.0	53-70-3	GC	08/03/96
8270B		BENZO(G,H,I)PERYLENE	\$06013	Below MDL	383	ug/Kg	1.0	191-24-2	GC	08/03/96
8270B		2-FLUOROPHENOL (SURR)	\$06013	45	%	REC	1.0	367-12-4	GC	08/03/96
8270B		PHENOL-D5 (SURR)	\$06013	39	%	REC	1.0	13127-88-3	GC	08/03/96
8270B		NITROBENZENE-D5 (SURR)	\$06013	45	%	REC	1.0	4165-60-0	GC	08/03/96
8270B		2-FLUOROBIPHENYL (SURR)	\$06013	63	%	REC	1.0	321-60-8	GC	08/03/96
8270B		2,4,6-TRIBROMOPHENOL (SURR)	\$06013	57	%	REC	1.0	118-79-6	GC	08/03/96

Lab Sample ID AB36434
Project # 4033
Project Name FT. STEWART
Sampling Date/Time 07/23/96 14:45

Client Site # 29629
Client Sample # 8101-TK93-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution		CAS #	ANALYST	DATE OF ANALYSIS
						Factor				
SEMI (GC/MS) SOIL				Prep Date 08/02/96			Batch 0802960008			
8270B	TERPHENYL-D14 (SURR)	\$06013	75	%	REC	1.0		1718-51-0	GC	08/03/96
8270B	CARBAZOLE	\$06013	Below MDL	383	ug/Kg	1.0		86-74-8	GC	08/03/96
BTX (GC) SOIL				Prep Date 08/05/96			Batch 080596BS			
8020A	BENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0		71-43-2	DTA	08/05/96
8020A	TOLUENE	\$08006	Below MDL	1.2	ug/Kg	1.0		108-88-3	DTA	08/05/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0		100-41-4	DTA	08/05/96
8020A	XYLENES (TOTAL)	\$08006	Below MDL	1.2	ug/Kg	1.0		1330-20-7	DTA	08/05/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	64	%	REC	1.0		98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	77	%	REC	1.0		460-00-4	DTA	08/05/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0		108-90-7	DTA	08/05/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0		95-50-1	DTA	08/05/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0		541-73-1	DTA	08/05/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0		106-46-7	DTA	08/05/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.2	ug/Kg	1.0		1634-04-4	DTA	08/05/96
				Prep Date 07/31/96			Batch 073196			
418.1	TPH (FTIR) SOIL	08008	63	5.8	mg/Kg	1.0			ML	07/31/96
				Prep Date 07/29/96			Batch 072996			
% TOTAL SOLIDS SOIL (N/C)		09099	86.1	0.1	%	1.0			MN	07/29/96

Lab Sample ID AB36435
Project # 4033
Project Name FT. STEWART
Sampling Date/Time 07/23/96 :

Client Site # 29630
Client Sample # TRIP BLANK

					Dilution	DATE OF		
METHOD	ANALYTE	TEST CODE	RESULT	MDL	Factor	CAS #	ANALYST	ANALYSIS
BTX (GC) WATER				Prep Date 08/05/96		Batch 080596BW		
8020A	BENZENE	\$08106	Below MDL	1.0 ug/L	1.0	71-43-2	DTA	08/05/96
8020A	TOLUENE	\$08106	Below MDL	1.0 ug/L	1.0	108-88-3	DTA	08/05/96
8020A	ETHYLBENZENE	\$08106	Below MDL	1.0 ug/L	1.0	100-41-4	DTA	08/05/96
8020A	XYLENES (TOTAL)	\$08106	Below MDL	1.0 ug/L	1.0	1330-20-7	DTA	08/05/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08106	87	% REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08106	92	% REC	1.0	460-00-4	DTA	08/05/96
8020A	CHLOROBENZENE	\$08106	Below MDL	1.0 ug/L	1.0	108-90-7	DTA	08/05/96
8020A	1,2-DICHLOROBENZENE	\$08106	Below MDL	1.0 ug/L	1.0	95-50-1	DTA	08/05/96
8020A	1,3-DICHLOROBENZENE	\$08106	Below MDL	1.0 ug/L	1.0	541-73-1	DTA	08/05/96
8020A	1,4-DICHLOROBENZENE	\$08106	Below MDL	1.0 ug/L	1.0	106-46-7	DTA	08/05/96
8020A	TERT-METHYLBUTYL ETHER	\$08106	Below MDL	1.0 ug/L	1.0	1634-04-4	DTA	08/05/96

Lab Sample ID AB36436
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time / / :

Client Site #
 Client Sample # SOIL METHOD BLANK

ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL			Prep Date 08/02/96		Batch 0802960008			
8270B PHENOL	\$06013	Below MDL	330	ug/Kg	1.0	108-95-2	GC	08/02/96
8270B BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	330	ug/Kg	1.0	111-44-4	GC	08/02/96
8270B 2-CHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-57-8	GC	08/02/96
8270B 1,3-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	541-73-1	GC	08/02/96
8270B 1,4-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	106-46-7	GC	08/02/96
8270B 1,2-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	95-50-1	GC	08/02/96
8270B BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	330	ug/Kg	1.0	108-60-1	GC	08/02/96
8270B 2-METHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-48-7	GC	08/02/96
8270B 4-METHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	106-44-5	GC	08/02/96
8270B N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	330	ug/Kg	1.0	621-64-7	GC	08/02/96
8270B HEXACHLOROETHANE	\$06013	Below MDL	330	ug/Kg	1.0	67-72-1	GC	08/02/96
8270B NITROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	98-95-3	GC	08/02/96
8270B ISOPHORONE	\$06013	Below MDL	330	ug/Kg	1.0	78-59-1	GC	08/02/96
8270B 2-NITROPHENOL	\$06013	Below MDL	660	ug/Kg	1.0	88-75-5	GC	08/02/96
8270B 2,4-DIMETHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	105-67-9	GC	08/02/96
8270B BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	330	ug/Kg	1.0	111-91-1	GC	08/02/96
8270B 2,4-DICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	120-83-2	GC	08/02/96
8270B 1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	120-82-1	GC	08/02/96
8270B NAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-20-3	GC	08/02/96
8270B 4-CHLOROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	106-47-8	GC	08/02/96
8270B HEXACHLOROBUTADIENE	\$06013	Below MDL	330	ug/Kg	1.0	87-68-3	GC	08/02/96
8270B 4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	660	ug/Kg	1.0	59-50-7	GC	08/02/96
8270B 2-METHYLNAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-57-6	GC	08/02/96
8270B HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	330	ug/Kg	1.0	77-47-4	GC	08/02/96
8270B 2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	88-06-2	GC	08/02/96
8270B 2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-95-4	GC	08/02/96
8270B 2-CHLORONAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-58-7	GC	08/02/96
8270B 2-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	88-74-4	GC	08/02/96
8270B DIMETHYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	131-11-3	GC	08/02/96
8270B ACENAPHTHYLENE	\$06013	Below MDL	330	ug/Kg	1.0	208-96-8	GC	08/02/96
8270B 2,6-DINITROTOLUENE	\$06013	Below MDL	330	ug/Kg	1.0	606-20-2	GC	08/02/96
8270B 3-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	99-09-2	GC	08/02/96
8270B ACENAPHTHENE	\$06013	Below MDL	330	ug/Kg	1.0	83-32-9	GC	08/02/96
8270B 2,4-DINITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	51-28-5	GC	08/02/96
8270B 4-NITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	100-02-7	GC	08/02/96
8270B DIBENZOFURAN	\$06013	Below MDL	330	ug/Kg	1.0	132-64-9	GC	08/02/96
8270B 2,4-DINITROTOLUENE	\$06013	Below MDL	330	ug/Kg	1.0	121-14-2	GC	08/02/96
8270B DIETHYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	84-66-2	GC	08/02/96
8270B 4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	330	ug/Kg	1.0	7005-72-3	GC	08/02/96
8270B FLUORENE	\$06013	Below MDL	330	ug/Kg	1.0	86-73-7	GC	08/02/96
8270B 4-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	100-01-6	GC	08/02/96
8270B 2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	534-52-1	GC	08/02/96
8270B N-NITROSODIPHENYLAMINE	\$06013	Below MDL	330	ug/Kg	1.0	86-30-6	GC	08/02/96
8270B 4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	330	ug/Kg	1.0	101-55-3	GC	08/02/96
8270B HEXACHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	118-74-1	GC	08/02/96
8270B PENTACHLOROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	87-86-5	GC	08/02/96

Lab Sample ID AB36436
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time / / :

Client Site #
 Client Sample # SOIL METHOD BLANK

IOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/02/96			Batch 0802960008		
8270B	PHENANTHRENE	\$06013	Below MDL	330	ug/Kg	1.0	85-01-8	GC	08/02/96
8270B	ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	120-12-7	GC	08/02/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	84-74-2	GC	08/02/96
8270B	FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	206-44-0	GC	08/02/96
8270B	PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	129-00-0	GC	08/02/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	85-68-7	GC	08/02/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	660	ug/Kg	1.0	91-94-1	GC	08/02/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	56-55-3	GC	08/02/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	117-81-7	GC	08/02/96
8270B	CHRYSENE	\$06013	Below MDL	330	ug/Kg	1.0	218-01-9	GC	08/02/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	117-84-0	GC	08/02/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	205-99-2	GC	08/02/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	207-08-9	GC	08/02/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	50-32-8	GC	08/02/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	193-39-5	GC	08/02/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	53-70-3	GC	08/02/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	330	ug/Kg	1.0	191-24-2	GC	08/02/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	72	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	63	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	74	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	81	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	73	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	97	%	REC	1.0	1718-51-0	GC	08/02/96
8270B	CARBAZOLE	\$06013	Below MDL	330	ug/Kg	1.0	86-74-8	GC	08/02/96
BTEX (GC) SOIL				Prep Date 08/05/96			Batch 080596BS		
8020A	BENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	71-43-2	DTA	08/05/96
8020A	TOLUENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-88-3	DTA	08/05/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	100-41-4	DTA	08/05/96
8020A	XYLENES (TOTAL)	\$08006	Below MDL	1.0	ug/Kg	1.0	1330-20-7	DTA	08/05/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	87	%	REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	90	%	REC	1.0	460-00-4	DTA	08/05/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-90-7	DTA	08/05/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	95-50-1	DTA	08/05/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	541-73-1	DTA	08/05/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	106-46-7	DTA	08/05/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.0	ug/Kg	1.0	1634-04-4	DTA	08/05/96
				Prep Date 07/31/96			Batch 073196		
418.1	TPH (FTIR) SOIL	08008	Below MDL	5.0	mg/Kg	1.0		ML	07/31/96

Lab Sample ID AB36437
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time / / :

Client Site #
 Client Sample # WATER METHOD BLANK

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER				Prep Date 08/05/96		Batch 080596BW			
8020A	BENZENE	\$08106	Below MDL	1.0	ug/L	1.0	71-43-2	DTA	08/05/96
8020A	TOLUENE	\$08106	Below MDL	1.0	ug/L	1.0	108-88-8	DTA	08/05/96
8020A	ETHYLBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	100-41-4	DTA	08/05/96
8020A	XYLENES (TOTAL)	\$08106	Below MDL	1.0	ug/L	1.0	1330-20-7	DTA	08/05/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08106	117	%	REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08106	113	%	REC	1.0	460-00-4	DTA	08/05/96
8020A	CHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	108-90-7	DTA	08/05/96
8020A	1,2-DICHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	95-50-1	DTA	08/05/96
8020A	1,3-DICHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	541-73-1	DTA	08/05/96
8020A	1,4-DICHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	106-46-7	DTA	08/05/96
8020A	TERT-METHYLBUTYL ETHER	\$08106	Below MDL	1.0	ug/L	1.0	1634-04-4	DTA	08/05/96

Lab Sample ID AB36700
 Project # 4033
 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 08/02/96		Batch 0802960008			
8270B	2-FLUOROPHENOL (SURR)	\$06013	59	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	55	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	55	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	76	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	76	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	84	%	REC	1.0	1718-51-0	GC	08/02/96

Lab Sample ID AB36701
 Project # 4033
 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 08/02/96		Batch 0802960001			
8270B	2-FLUOROPHENOL (SURR)	\$06013	49	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	44	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	39	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	62	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	70	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	84	%	REC	1.0	1718-51-0	GC	08/02/96

Lab Sample ID AB36702 Client Site #
 Project # 4033 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 08/02/96		Batch 0802960008			
8270B	2-FLUOROPHENOL (SURR)	\$06013	71	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	68	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	62	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	77	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	70	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	90	%	REC	1.0	1718-51-0	GC	08/02/96

Lab Sample ID AB36716 Client Site #
 Project # 4033 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) WATER				Prep Date 08/05/96		Batch 080596BW			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08106	91	%	REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08106	94	%	REC	1.0	460-00-4	DTA	08/05/96

Lab Sample ID AB36717 Client Site #
 Project # 4033 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) WATER				Prep Date 08/05/96		Batch 080596BW			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08106	91	%	REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08106	98	%	REC	1.0	460-00-4	DTA	08/05/96

Lab Sample ID AB36718
Project # 4033
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) WATER				Prep Date 08/05/96	Batch 080596BW			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08106	90	% REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08106	92	% REC	1.0	460-00-4	DTA	08/05/96

Lab Sample ID AB36719
Project # 4033
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 08/05/96	Batch 080596BS			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	91	% REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	94	% REC	1.0	460-00-4	DTA	08/05/96

Lab Sample ID AB36720
Project # 4033
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 08/05/96	Batch 080596BS			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	75	% REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	73	% REC	1.0	460-00-4	DTA	08/05/96

Lab Sample ID AB36721
Project # 4033
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 08/05/96	Batch 080596BS			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	61	% REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	61	% REC	1.0	460-00-4	DTA	08/05/96

Robert L. L...
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

Reactive Materials License	ISO 9000	EPA ID	EPA Reg Waste	GA APHIS	Fed Lab ID	US Army Corps of
1283-1	A2LA:0594-01	GA-00058	GA-0001011006	S-3966	58-188334	Engineers Validation

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(ER 1110-1-263)

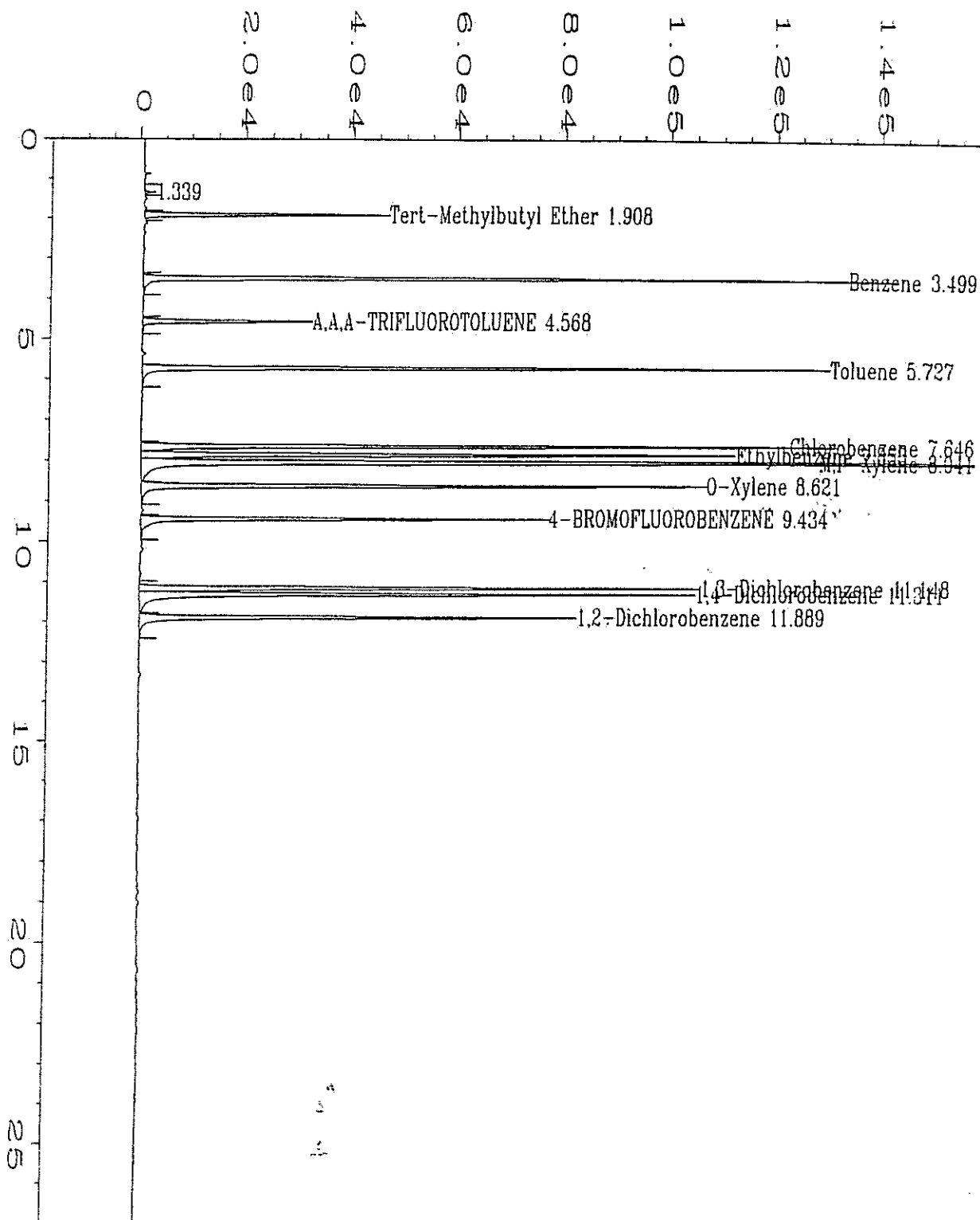
65

External Standard Report

Data File Name : C:\HPCHEM\1\DATA\b080596\30805F07.D
 Operator : Doug Anderson Page Number : 1
 Instrument : GC3 Vial Number : 7
 Sample Name : 20ppb 8020 ccv Injection Number : 1
 Run Time Bar Code: Sequence Line : 1
 Acquired on : 05 Aug 96 03:22 PM Instrument Method: 3B080196.MTH
 Report Created on: 05 Aug 96 03:50 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\b080596\30805F07.D

Ret Time	Area	Type	Width	Ref#	ppb	Name
1.908	170981	PV	0.058	1	19.888	Tert-Methylbutyl Ether
3.499	515740	BB	0.057	1	19.777	Benzene
4.568	133073	BB	0.065	1	15.258	A,A,A-TRIFLUOROTOLUENE
5.727	500620	PB	0.060	1	19.814	Toluene
7.646	502902	BV	0.059	1	19.713	Chlorobenzene
7.853	457401	VV	0.063	1	20.072	Ethylbenzene
8.041	1067624	VV	0.066	1	40.678	M,P-Xylene
8.621	447401	VB	0.065	1	20.163	O-Xylene
9.434	320135	PB	0.064	1	15.985	4-BROMOFLUOROBENZENE
11.148	440496	BV	0.064	1	19.794	1,3-Dichlorobenzene
11.311	490136	VV	0.070	1	21.130	1,4-Dichlorobenzene
11.889	358208	VB	0.066	1	20.171	1,2-Dichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\b080596\30805F07.D	Page Number	: 1
Operator	: Doug Anderson	Vial Number	: 7
Instrument	: GC3	Injection Number	: 1
Sample Name	: 20ppb 8020 ccv	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	3B080196.MTH
Acquired on	: 05 Aug 96 03:22 PM	Analysis Method	: 3B080196.MTH
Report Created on:	05 Aug 96 03:50 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.
 Ledger No(s): 107999
 Batch No: 080596BS
 Lab File ID: 30805F08
 Lab Sample ID: AB36436
 Instrument ID: GC3

Client: ACE-SAD

Date Analyzed: 8/5/96
 Time Analyzed: 15:56
 Level: Low
 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	AB36719 LCS	30805F09	8/5/96
2	NA	AB36720 MS	30805F10	8/5/96
3	NA	AB36721 MSD	30805F11	8/5/96
4	8101-TK74-S1	AB36433	30805F12	8/5/96
5	8101-TK93-S1	AB36434	30805F13	8/5/96
6				
7				
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: 107999
 Batch No: 080596BS
 Lab File ID: 30805F10/30805F11

Client: ACE-SAD
 Matrix Spike/Lab Sample No: AB36433 REF
 AB36720 MS
 AB36721 MSD

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	MS % Recovery	#	QC Limits Recovery
Benzene	20	ND	17	83		40-160
Toluene	20	ND	16	80		40-160
Ethylbenzene	20	ND	18	90		40-160
m,p-Xylene	40	29	86	141		40-160
o-Xylene	20	ND	15	77		40-160

Compound	Spike Added (ug/Kg)	MSD Conc (ug/Kg)	MSD % Recovery	#	% RPD	#	QC Limits	
Benzene	20	13	65		24		RPD	Recovery
Toluene	20	12	62		25		30	40-160
Ethylbenzene	20	13	64		33	*	30	40-160
m,p-Xylene	40	62	82		53	*	30	40-160
o-Xylene	20	12	60		25		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: 2 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits


 QA/QC Officer

Comments: _____

BTEX LCS Recoveries (Soil)

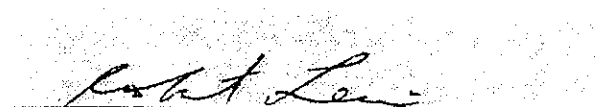
Lab Name: EcoSys, Inc.
 Ledger No: 107999
 Batch No: 080596BS
 Lab File ID: 30805F09

Client: ACE-SAD
 Laboratory Control Sample No: AB36719
 Level (Low/Med): Low
 Matrix: Soil

Compound	Spike Added (ug/Kg)	LCS Conc (ug/Kg)	LCS % Recovery	#	QC Limits Recovery
Benzene	20	16	81		40-160
Toluene	20	16	81		40-160
Ethylbenzene	20	16	82		40-160
m,p-Xylene	40	33	82		40-160
o-Xylene	20	16	82		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:	ACESAD
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

QA/QC Officer

Comments:

Lab Name: EcoSys, Inc.Client: ACE-SADLedger No: 107999DFTPP Injection Date: 7/26/96Lab File ID: DFTPP072696DFTPP Injection Time: 7:04Instrument ID: MSD-3Batch Number: 0802960008

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.0
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	82.9 (1)
70	Less than 2.0% of mass 69	0.5
127	40.0 - 60.0% of mass 198	54.2
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	23.0
365	Greater than 1% of mass 198	2.5
441	Present, but less than mass 443	75.7
442	Greater than 40% of mass 198	59.1
443	17.0 - 23.0% of mass 442	20.4 (2)

1-Value is % mass 69

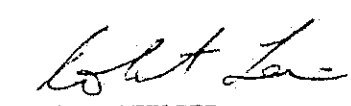
2-Value is % mass 442

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-1	BNA0201002	07/26/96		8:50 AM
	02	STD	INITIAL CAL-2	BNA0301003	07/26/96		9:42 AM
	03	STD	INITIAL CAL-3	BNA0601006	07/26/96		12:37 PM
	04	STD	INITIAL CAL-4	BNA0401004	07/26/96		10:41 AM
	05	STD	INITIAL CAL-5	BNA0501005	07/26/96		11:40 AM
	06						
	07						
	08						

NA: Not Applicable

Comments:


 QA/QC OFFICER

EcoSys, Inc.

ata file : /chem/msd3.i/3-072696.b/dftpp072696.d
ab. Id. : DFTPP02
nj Date : 26-JUL-96 07:04 Autotune Date: 26-Jul-96 07:03:3
perator : BINA Inst ID: msd3.i
mp Info : 50ng OF DFT-05-(39)
isc Info : INSTRUMENT TUNE FOR msd3.i
omment :
ethod : /chem/msd3.i/3-072696.b/dftpp288.m
eth Date : 26-Jul-1996 06:48
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

		CONCENTRATIONS			
		ON-COL	FINAL		
RT (REL RT)	MASS	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
- dftpp				CAS #: 5074-71-5	
7.474(0.000)	198	161282			100.00(Q)
7.474(0.000)	51	90538		0.00- 0.00	56.14
7.474(0.000)	68	0		0.00- 0.00	0.00
7.474(0.000)	69	122946		0.00- 0.00	76.23
7.474(0.000)	70	288		0.00- 0.00	0.23
7.474(0.000)	127	83498		0.00- 0.00	51.77
7.474(0.000)	197	0		0.00- 0.00	0.00
7.474(0.000)	199	10388		0.00- 0.00	6.44
7.474(0.000)	275	36589		0.00- 0.00	22.69
7.474(0.000)	365	4269		0.00- 0.00	2.65
7.474(0.000)	441	16298		0.00- 0.00	77.26
7.474(0.000)	442	108762		0.00- 0.00	67.44
7.474(0.000)	443	21094		0.00- 0.00	19.39

IC Flag Legend

Q - 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: INSTRUMENT TUNE FOR msd3.i

Client SDG: 3-072696.b
Sample Date:
Sample Point:
Date Received:

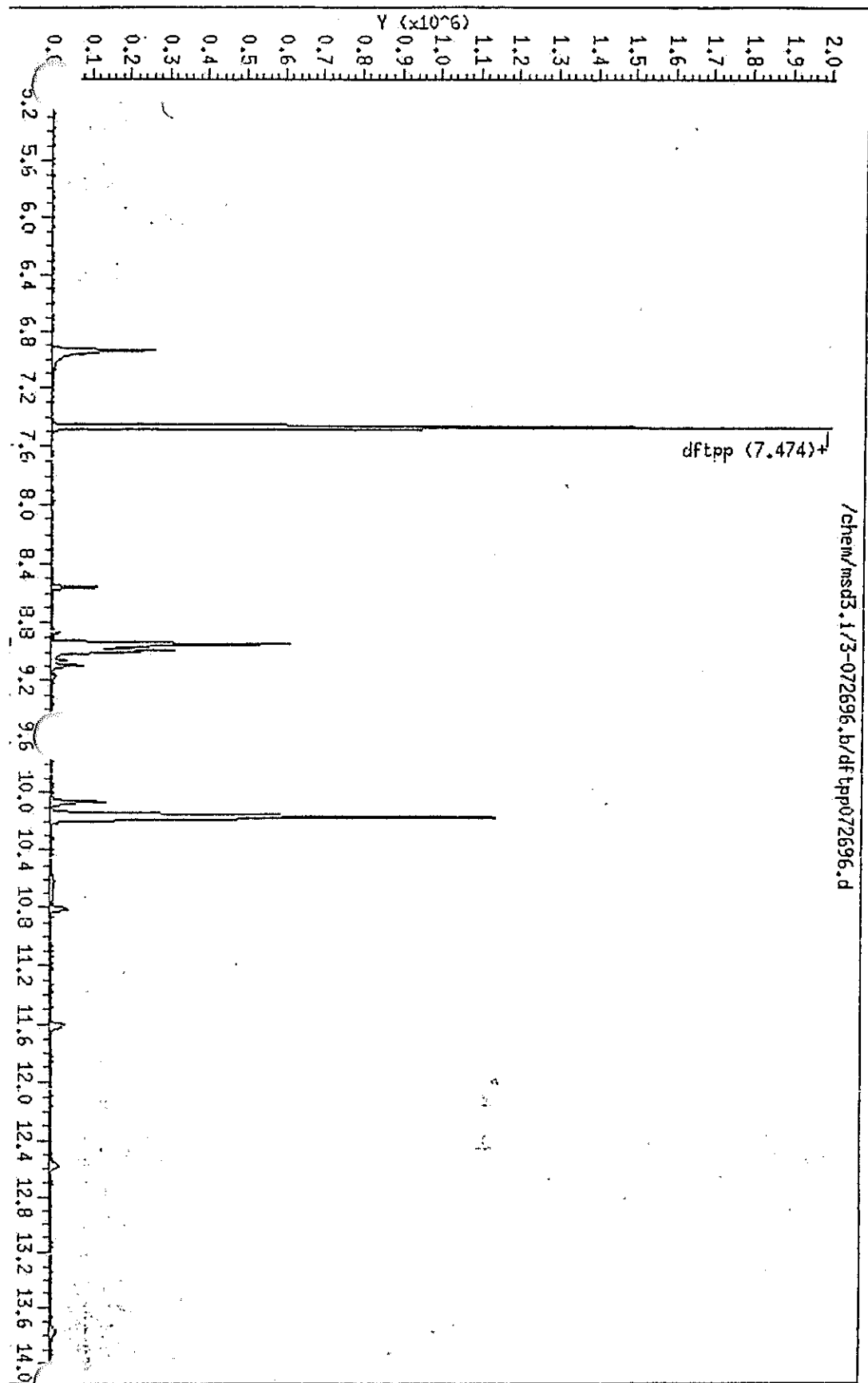
Level: LOW
Column Number: 1

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

Data File: /chem/msd3.1/3-072696.b/dftpp072696.d
Date : 26-JUL-96 07:04
Instrument : msd3.1
Sample ID : JFTPP02
Column phase :
Volume Injected (ul) : 1.0

Column diameter : 2.00

Page 3



Date: 26-JUL-96 07:04

Instrument: msd3.1

Sample ID: DFTPP02

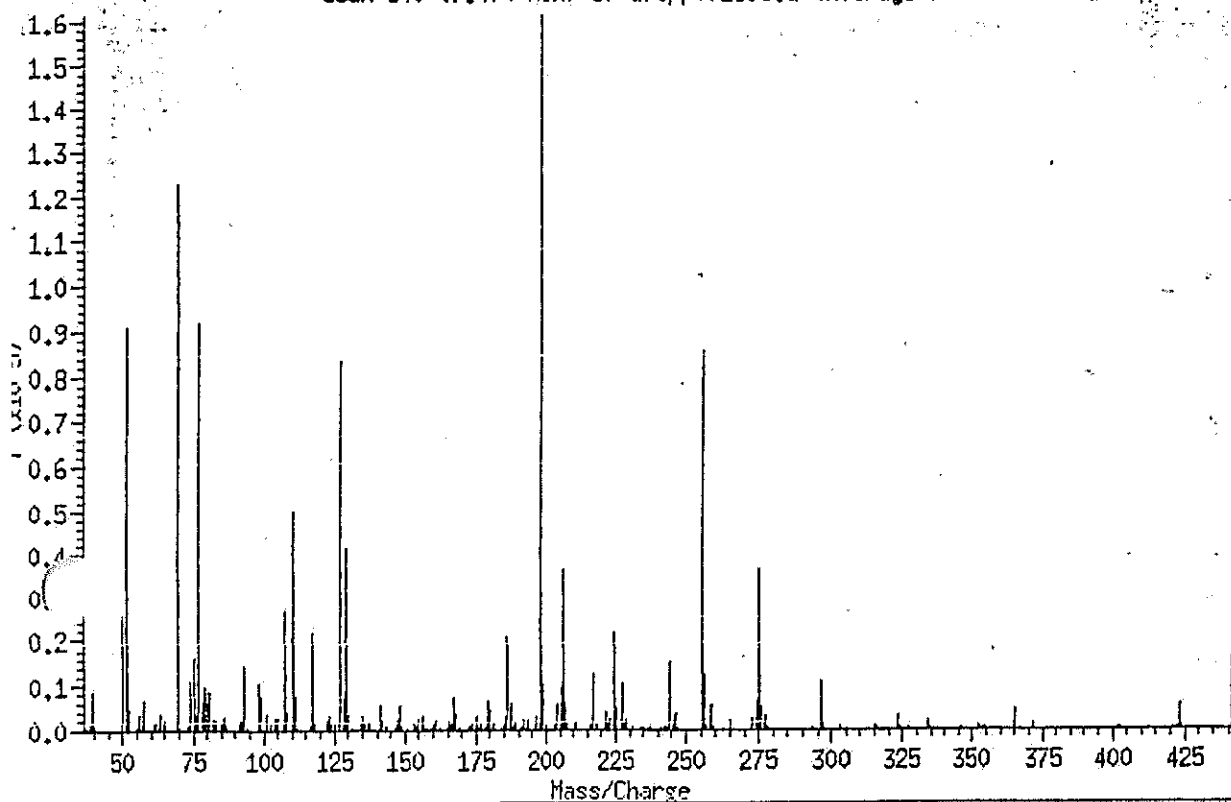
Column phase:

Column diameter: 2.00

Volume Injected (uL): 1.0

1 dftpp

Scan 340 (7.474 min) of dftpp072696.d (Averaged)



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.0
51	Mass 51 relative abundance	56.1
68	Mass 68 relative abundance	0.0
69	Mass 69 relative abundance	76.2
70	Mass 70 relative abundance	0.2
127	Mass 127 relative abundance	51.9
197	Mass 197 relative abundance	0.0
199	Mass 199 relative abundance	6.4
275	Mass 275 relative abundance	22.7
365	Mass 365 relative abundance	2.6
441	Mass 441 relative abundance	77.3
442	Mass 442 relative abundance	67.4
443	Mass 443 relative abundance	19.4

Date : 26-JUL-96 07:04

Document : msd3.i

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

Spectrum: Scan 340-342 (7.474 min) Subtraction Scan 336

Base Peak: 198.00

Number of mass peaks: 176

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
37.00	294	116.00	1147	178.00	581	247.00	294
38.00	1594	117.00	21592	179.00	6531	255.00	85365
39.00	8236	118.00	1435	180.00	4582	256.00	12547
50.00	25781	122.00	2205	181.00	1703	257.00	1144
51.00	90538	123.00	2922	184.00	273	258.00	5344
52.00	4356	124.00	1404	185.00	3007	259.00	668
55.00	666	125.00	1272	186.00	20524	265.00	1935
56.00	3236	127.00	83498	187.00	5955	273.00	2634
57.00	6329	128.00	7516	188.00	600	274.00	6281
61.00	1403	129.00	41306	189.00	1447	275.00	36589
62.00	1632	130.00	3674	191.00	689	276.00	4968
63.00	3583	131.00	315	192.00	1780	277.00	3041
65.00	1901	134.00	1256	193.00	2098	278.00	534
69.00	122946	135.00	3185	196.00	2959	293.00	551
70.00	288	136.00	1273	198.00	161282	296.00	10659
73.00	1145	137.00	1359	199.00	10388	297.00	1623
74.00	10834	141.00	5209	200.00	786	303.00	937
75.00	16463	142.00	1746	203.00	1061	315.00	947
76.00	2907	143.00	1011	204.00	5961	316.00	279
77.00	91645	146.00	614	205.00	9199	323.00	3004
78.00	6501	147.00	2581	206.00	36666	324.00	637
79.00	9445	148.00	5416	207.00	5713	327.00	583
80.00	5770	149.00	1059	208.00	1391	334.00	2101
81.00	8218	151.00	318	211.00	1428	335.00	251
82.00	1922	153.00	1574	216.00	1023	346.00	554
83.00	1824	154.00	997	217.00	12088	352.00	780
85.00	1485	155.00	2487	218.00	1056	353.00	366
86.00	2364	156.00	3128	221.00	4164	354.00	719
87.00	994	157.00	249	222.00	1485	365.00	4269
91.00	2167	158.00	660	223.00	2531	366.00	244
92.00	2182	159.00	291	224.00	21599	372.00	1386
93.00	14127	160.00	1621	225.00	4876	402.00	601
94.00	326	161.00	1995	227.00	10222	403.00	678
98.00	10321	162.00	297	228.00	1438	421.00	637
99.00	7511	165.00	1949	229.00	1909	422.00	341

Date: 26-JUL-96 07:04

Instrument: msd3.1

Sample ID: DFTPP02

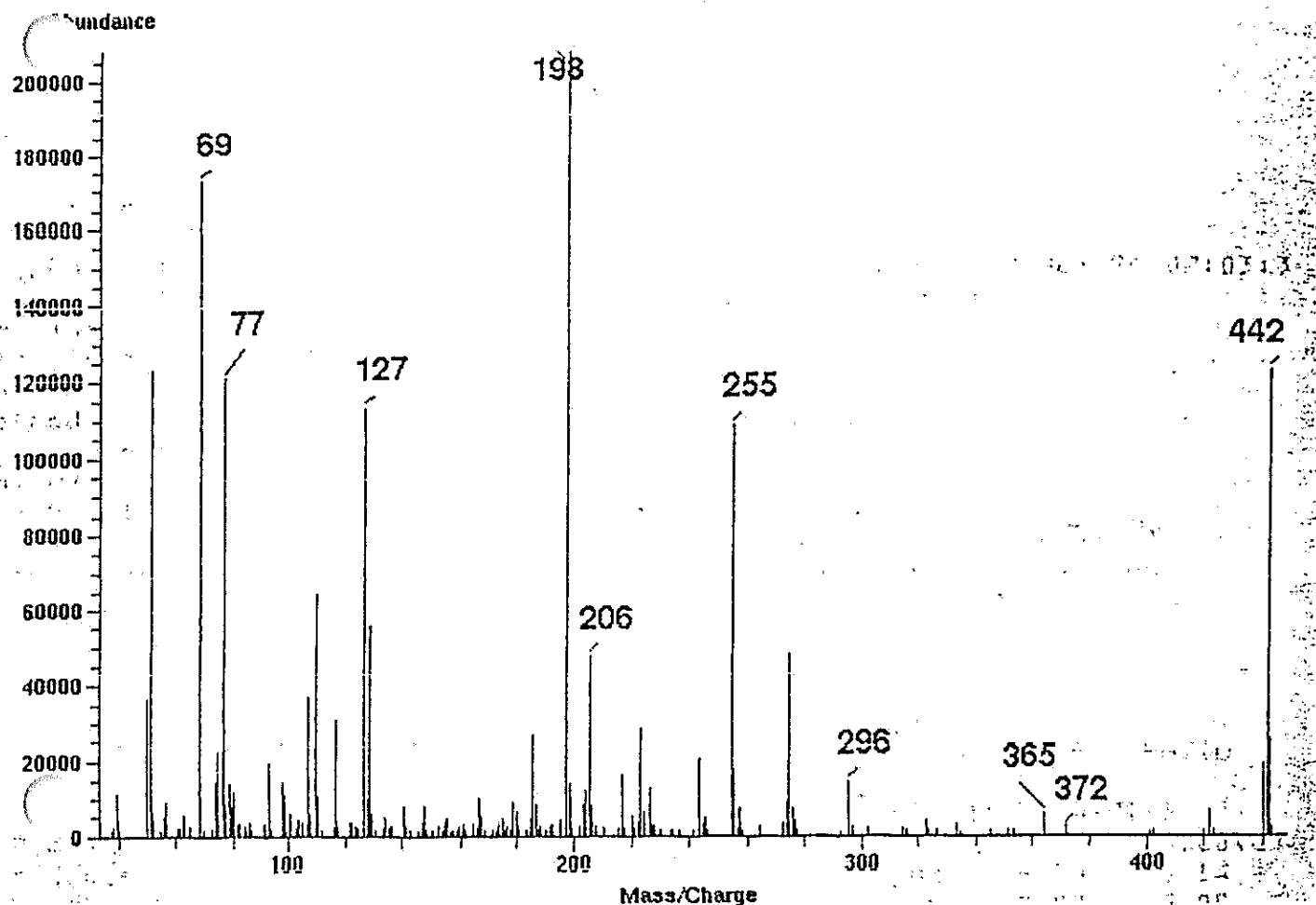
Column phase:

Column diameter: 2.00

Volume Injected (uL): 1.0

Spectrum: Scan 340-342 (7.474 min) Subtraction Scan 336
Base Peak: 198.00
Number of mass peaks: 176

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
100.00	265	166.00	1448	231.00	617	423.00	5406
101.00	3680	167.00	7252	234.00	303	424.00	740
103.00	1492	168.00	3240	235.00	375	441.00	16298
104.00	2497	169.00	271	237.00	273	442.00	109762
105.00	2304	172.00	418	241.00	254	443.00	21094
107.00	26522	173.00	975	242.00	759	444.00	1616
108.00	3937	174.00	1715	243.00	269		
110.00	49800	175.00	2981	244.00	15144		
111.00	7299	176.00	542	245.00	2063		
112.00	387	177.00	1480	246.00	3555		



assl	Ion abundance criteria	%relative abundance
51	30.0 - 60.0% of mass 198	59.0
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance is	82.9
70	Less than 2.0% of mass 69	0.5
27	40.0 to 60.0% of mass 198	54.2
97	Less than 1.0% of mass 198	0.0
98	Base peak, 100% relative abundance	100.0
99	5.0 to 9.0% of mass 198	6.5
75	10.0 - 30.0% of mass 198	23.0
65	Greater than 1% of mass 198	2.5
41	Present, but less than mass 443	75.7
42	Greater than 40.0% of mass 198	59.1
43	17.0 - 23.0% of mass 442	20.4

EcoSys, Inc.

INITIAL CALIBRATION DATA

art Cal Date : 10-MAR-1993 11:35
d Cal Date : 26-JUL-1996 12:37
ant Method : ISTD
l Curve Type : Averaged
rget Version : Target 2.20
egrator : HP RTE
thod file : /chem/msd3.i/072696.b/MA-BNA_2.m
l Date : 16-Aug-1996 10:34 target

libration File Names:
vel 1: /chem/msd3.i/3-072696.b/BNA0201002.d
vel 2: /chem/msd3.i/3-072696.b/BNA0301003.d
vel 3: /chem/msd3.i/3-072696.b/BNA0601006.d
vel 4: /chem/msd3.i/3-072696.b/BNA0401004.d
vel 5: /chem/msd3.i/3-072696.b/BNA0501005.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD/R^2
3 Aniline	1.990321	2.076051	2.138151	2.213441	2.085871	2.100771	3.9201
4 Phenol **	2.063951	1.922411	1.920351	1.414111	1.787941	1.821751	13.6081
5 Bis(2-chloroethyl) ether	1.818541	1.646861	1.567721	1.573101	1.468771	1.615001	8.0631
6 2-Chlorophenol	1.478281	1.436051	1.418401	1.363061	1.268121	1.392781	5.8181
7 1,3-Dichlorobenzene	1.588551	1.434831	1.451291	1.366501	1.401841	1.448601	5.8481
9 1,4-Dichlorobenzene **	1.595441	1.500411	1.462261	1.402421	1.459371	1.483981	4.8151
10 1,2-Dichlorobenzene	1.605511	1.466541	1.438501	1.358201	1.382561	1.450261	6.6821
11 Benzyl alcohol	1.662211	1.713151	1.779571	1.878931	1.752411	1.757251	4.6151
12 2-Methylphenol	1.417171	1.268151	1.250651	1.311271	1.172971	1.284041	6.9841
13 Bis(2-chloroisopropyl) ether	2.641881	2.353901	2.303001	2.259311	2.080531	2.327731	8.7461
14 4-Methylphenol	1.403871	1.375681	1.381721	1.291101	1.143271	1.319131	8.1301
15 N-Nitrosodi-n-propylamine *	1.625331	1.423141	1.404181	1.355741	1.271651	1.416011	9.2401
16 Hexachloroethane	0.947971	0.866781	0.824931	0.782401	0.791961	0.842811	8.0001
18 Nitrobenzene	0.605231	0.653551	0.736741	0.938031	0.881801	0.743831	18.1921
19 Isophorone	1.122931	1.181211	1.159151	1.211711	1.100471	1.155101	3.8531
20 2-Nitrophenol **	0.267961	0.286851	0.280031	0.269981	0.258571	0.272681	4.0321
21 2,4-Dimethylphenol	0.479951	0.500061	0.493141	0.497211	0.454661	0.485001	3.8411
22 Bis(2-Chloroethoxy)methane	0.632801	0.576791	0.556611	0.554621	0.503641	0.564891	8.2451
23 2,4-Dichlorophenol **	0.280231	0.297231	0.310991	0.328061	0.293831	0.302071	6.0211
24 Benzoic acid	+++++	0.171711	0.199421	0.150421	0.192241	0.178451	12.3671
25 1,2,4-Trichlorobenzene	0.373171	0.383901	0.383001	0.360381	0.372081	0.374511	2.5601
27 Naphthalene	1.145991	1.080791	1.025801	0.996151	1.025191	1.054781	5.6381
28 4-Chloroaniline	0.380511	0.367731	0.412341	0.423621	0.396911	0.396221	5.7421
29 Hexachlorobutadiene **	0.298761	0.304871	0.303251	0.293351	0.291851	0.298411	1.9381
30 2-Chloro-3-methylphenol **	0.420071	0.450281	0.427991	0.428031	0.395021	0.424281	4.6811
31 1-Methylnaphthalene	0.665571	0.635211	0.699911	0.916311	0.910421	0.765481	17.8891
32 Hexachlorocyclopentadiene *	0.214791	0.327031	0.371231	0.376741	0.390491	0.336061	21.3761
33 2,4,6-Trichlorophenol **	0.329961	0.355411	0.347881	0.357661	0.336361	0.345451	3.4761
34 2,4,5-Trichlorophenol	0.370341	0.387051	0.407241	0.417001	0.393181	0.394961	4.5801

EcoSys, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-1993 11:35
 End Cal Date : 26-JUL-1996 12:37
 Instrument Method : ISTD
 Calibration Curve Type : Averaged
 Target Version : Target 2.20
 Integrator : HP RTE
 Method file : /chem/msd3.i/072696.b/MA-BNA_2.m
 Cal Date : 16-Aug-1996 10:34 target

Calibration File Names:

Level 1: /chem/msd3.i/3-072696.b/BNA0201002.d
 Level 2: /chem/msd3.i/3-072696.b/BNA0301003.d
 Level 3: /chem/msd3.i/3-072696.b/BNA0601006.d
 Level 4: /chem/msd3.i/3-072696.b/BNA0401004.d
 Level 5: /chem/msd3.i/3-072696.b/BNA0501005.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD/R^2
36 Aloronaphthalene	1.161971	1.088571	1.070251	1.021271	1.036981	1.075811	5.1121
37 2-Nitroaniline	0.509481	0.576261	0.576691	0.628451	0.578301	0.573841	7.3721
38 Dimethyl phthalate	1.553331	1.447491	1.385031	1.433011	1.269901	1.417751	7.2641
39 2,6-Dinitrotoluene	0.348481	0.350781	0.327111	0.317991	0.304291	0.329731	6.0411
40 Acenaphthylene	1.831141	1.683191	1.572281	1.486241	1.500751	1.614721	8.9111
41 3-Nitroaniline	0.237931	0.210481	0.270481	0.297121	0.275621	0.258331	13.2091
43 Acenaphthene **	1.118161	1.043591	1.003511	0.959061	0.948151	1.014501	6.8271
44 2,4-Dinitrophenol *	+++++	0.079141	0.118451	0.162551	0.152111	0.128061	29.4041
45 4-Nitrophenol *	0.060361	0.066411	0.069801	0.062421	0.055211	0.062841	8.9211
46 2,4-Dinitrotoluene	0.389451	0.431731	0.427831	0.447371	0.399801	0.419241	5.7031
47 Dibenzofuran	1.531511	1.453951	1.385471	1.341831	1.286941	1.399941	6.8311
48 Diethyl phthalate	1.655711	1.497561	1.476241	1.531941	1.372251	1.506741	6.7951
49 4-Chlorophenyl phenyl ether	0.643651	0.586411	0.581331	0.563341	0.539061	0.582761	6.6511
50 Fluorene	1.166891	1.072351	1.070171	1.032931	0.997671	1.066001	6.1991
51 4-Nitroaniline	0.158291	0.145591	0.161351	0.234481	0.208301	0.181601	20.8951
52 4,6-Dinitro-2-methylphenol	+++++	0.165641	0.190171	0.205921	0.190221	0.187991	8.8521
53 N-Nitrosodiphenylamine **	0.533141	0.488821	0.473471	0.432841	0.415061	0.468671	9.9761
54 1,2-Diphenylhydrazine	3.552221	3.298171	2.948241	3.140721	2.829001	3.153671	9.0731
56 4-Bromophenyl phenyl ether	0.327801	0.327841	0.315021	0.305091	0.302901	0.315731	3.7831
57 Hexachlorobenzene	0.351081	0.346751	0.349771	0.322381	0.333101	0.340611	3.6551
58 Pentachlorophenol **	+++++	0.048111	0.074171	0.100311	0.066641	0.072311	29.9351
60 Phenanthrene	1.180981	1.113551	1.074711	1.046861	0.999001	1.083021	6.3581
61 Anthracene	1.133471	1.108921	1.057861	1.022501	0.972821	1.059111	6.1191
62 Carbazole	0.988781	1.055071	1.113841	1.076771	0.962041	1.039301	6.0341
63 n-butyl phthalate	1.894321	1.706631	1.681911	1.676381	1.436891	1.679231	9.6831
64 Anthracene **	0.996231	1.010201	1.017151	1.008681	0.937521	0.993951	3.2641
65 Pyrene	1.851091	1.821721	1.808581	1.717111	1.722711	1.784231	3.4041
67 Butyl benzyl phthalate	1.001681	0.982011	1.012801	1.050241	0.958491	1.001041	3.4361
68 Dioctyl adipate	0.806601	0.746051	0.748311	0.742021	0.679401	0.744481	6.0511

EcoSys, Inc.

INITIAL CALIBRATION DATA

art Cal Date : 10-MAR-1993 11:35
 d Cal Date : 26-JUL-1996 12:37
 ant Method : ISTD
 l Curve Type : Averaged
 rget Version : Target 2.20
 egrator : HP RTE
 thod file : /chem/msd3.i/072696.b/MA-BNA_2.m
 l Date : 16-Aug-1996 10:34 target

Calibration File Names:

vel 1: /chem/msd3.i/3-072696.b/BNA0201002.d
 vel 2: /chem/msd3.i/3-072696.b/BNA0301003.d
 vel 3: /chem/msd3.i/3-072696.b/BNA0601006.d
 vel 4: /chem/msd3.i/3-072696.b/BNA0401004.d
 vel 5: /chem/msd3.i/3-072696.b/BNA0501005.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD/R^2
69 -Dichlorobenzidine	0.25785	0.18576	0.25785	0.38889	0.25787	0.26965	27.299
70 Bis(2-ethylhexyl) phthalate	1.40875	1.29500	1.31791	1.42362	1.22502	1.33406	6.190
71 Benz(a)anthracene	1.20757	1.25245	1.26275	1.27087	1.25631	1.24999	1.978
73 Chrysene	1.22497	1.20571	1.20674	1.16866	1.14708	1.19063	2.671
74 Di-n-octyl phthalate **	2.96574	2.89367	2.81500	2.69027	2.65137	2.80321	4.738
75 Benzo(b)fluoranthene	1.41246	1.53121	1.49130	1.41073	1.53581	1.47630	4.169
76 Benzo(k)fluoranthene	1.61230	1.60490	1.65974	1.59555	1.42516	1.57953	5.684
77 Benzo(a)pyrene **	1.34213	1.44077	1.39781	1.33381	1.40598	1.38410	3.265
79 Indeno(1,2,3-cd)pyrene	1.06004	1.20768	1.25028	1.22066	1.26839	1.20141	6.872
80 Dibenz(a,h)anthracene	1.05009	1.17568	1.27917	1.26556	1.29958	1.21402	8.497
81 Benzo(g,h,i)perylene	1.06004	1.20768	1.25028	1.22066	1.26839	1.20141	6.872
1 2-Fluorophenol	1.23558	1.19812	1.25711	1.39995	1.28848	1.27585	6.017
2 Phenol-d5	1.97777	1.74166	1.91037	1.99768	1.82329	1.82329	5.680
17 Nitrobenzene-d5	0.72433	0.74967	0.72664	0.73600	0.69999	0.72733	2.508
35 2-Fluorobiphenyl	1.49863	1.33275	1.29888	1.29596	1.28469	1.34218	6.652
55 2,4,6-Tribromophenol	0.14878	0.18730	0.20422	0.22032	0.20714	0.19355	14.289
66 Terphenyl-d14	1.23812	1.20243	1.20455	1.20378	1.18220	1.20621	1.667

SemiVolatiles DFTPP

Lab Name: EcoSys, Inc.Client: USACE SADLedger No: 107999DFTPP Injection Date: 8/2/96Lab File ID: DFTPP080296DFTPP Injection Time: 14:49Instrument ID: MSD-3Batch Number: 0802960008

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	54.6
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	68.2 (1)
70	Less than 2.0% of mass 69	0.0
127	40.0 - 60.0% of mass 198	49.4
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	6.2
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 1% of mass 198	2.7
441	Present, but less than mass 443	69.9
442	Greater than 40% of mass 198	68.4
443	17.0 - 23.0% of mass 442	21.3 (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	08/02/96	3:11 PM
	02 NA	AB36700 MS	BNA0801008	08/02/96	9:13 PM
	03 NA	AB36701 MSD	BNA0901009	08/02/96	10:03 PM
	04 NA	AB36702 LCS	BNA0301003	08/02/96	4:51 PM
	05 NA	AB36436 MB	BNA0201002	08/02/96	4:01 PM
	06 8101-TK74-S1	AB36433	BNA1101011	08/02/96	11:47 PM
	07 8101-TK93-S1	AB36434	BNA1201012	08/03/96	12:59 AM

NA: Not Applicable

Comments:


 QA/QC OFFICER

EcoSys, Inc.

Data file : /chem/msd3.1/3-080296.b/DFTPP080296.d
Lab. Id. : DFTPP02
Inj Date : 02-AUG-96 14:49 Autotune Date: 29-Jul-96 08:01:1
Operator : GORDON Inst ID: msd3.1
Smp Info : 50ng OF DFT-05-(39)
Misc Info : INSTRUMENT TUNE FOR msd3.1
Comment :
Method : /chem/msd3.1/3-080296.b/dftpp298.m
Meth Date : 02-Aug-1996 06:44
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.000 Target Version: Target 12.20
Integrator: HP RTE Compound Sublist: ali.sub
Sample Type: WATER

		CONCENTRATIONS			
		ON-COL	FINAL		
RT (REL RT)	MASS	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
dftpp				CAS #: 5074-71-5	
7.473(0.000)	198	95029			100.00(Q)
7.473(0.000)	51	51728		0.00- 0.00	54.43
7.473(0.000)	68	0		0.00- 0.00	0.00
7.473(0.000)	69	62466		0.00- 0.00	72.06
7.473(0.000)	70	0		0.00- 0.00	0.00
7.473(0.000)	127	48605		0.00- 0.00	51.15
7.473(0.000)	127	0		0.00- 0.00	0.00
7.473(0.000)	199	5906		0.00- 0.00	6.21
7.473(0.000)	275	21696		0.00- 0.00	22.83
7.473(0.000)	365	2478		0.00- 0.00	2.61
7.473(0.000)	441	9919		0.00- 0.00	73.90
7.473(0.000)	442	65272		0.00- 0.00	68.69
7.473(0.000)	443	13423		0.00- 0.00	20.56

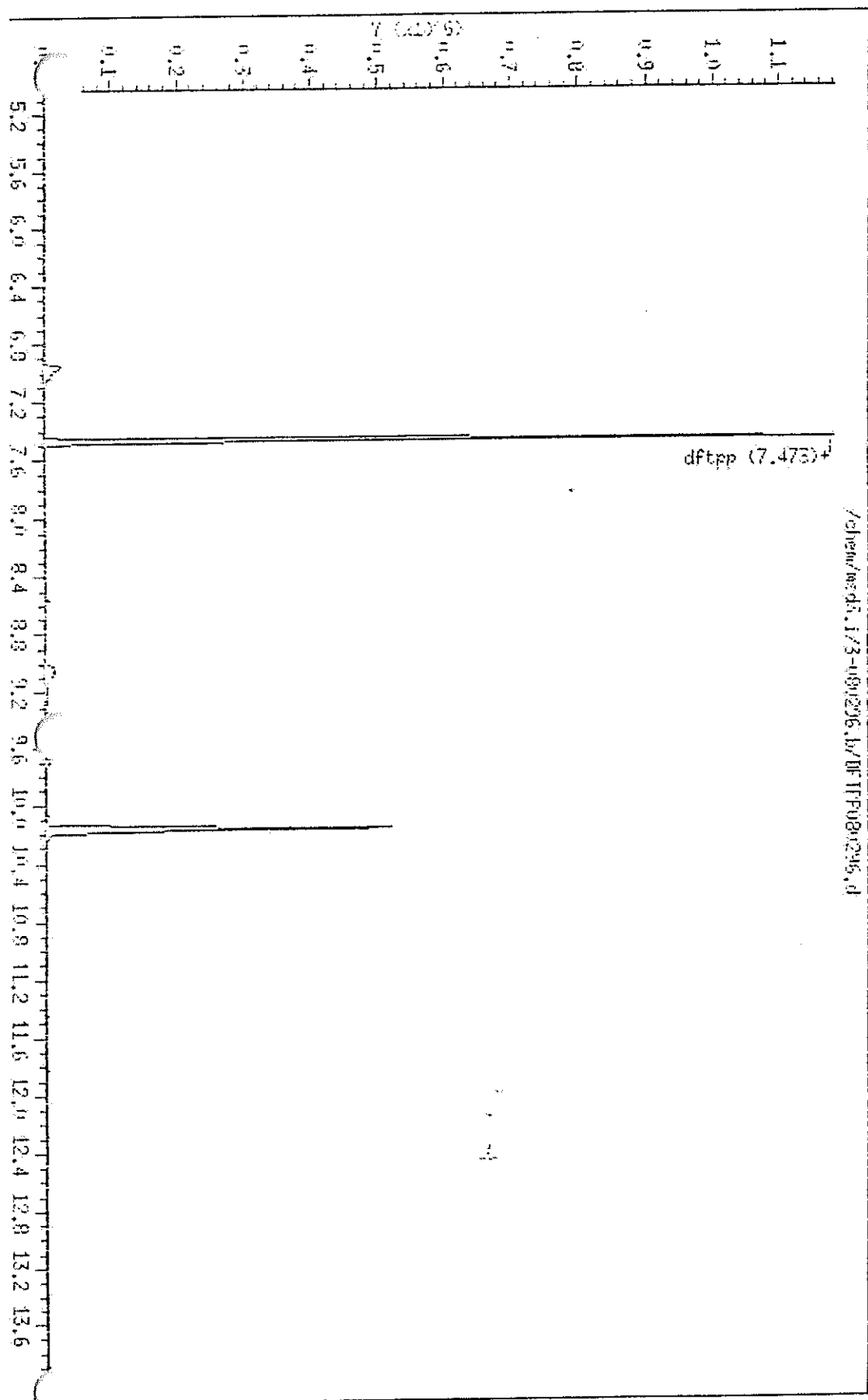
IC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/msd5.1/3-080296.b/DFTFP080296.d
Date : 02-AUG-96 14:49
Instrument : msd5.1
Sample ID : DFTFP02
Column phase :
Volume Injected (ul) : 1.0

Column diameter : 2.00

Page 3



Data File: /chem/med3.1/3-080296.b/DFTPP080296.d

02-AUG-96 14:49

Instrument : med3.1

Sample ID : DFTPP02

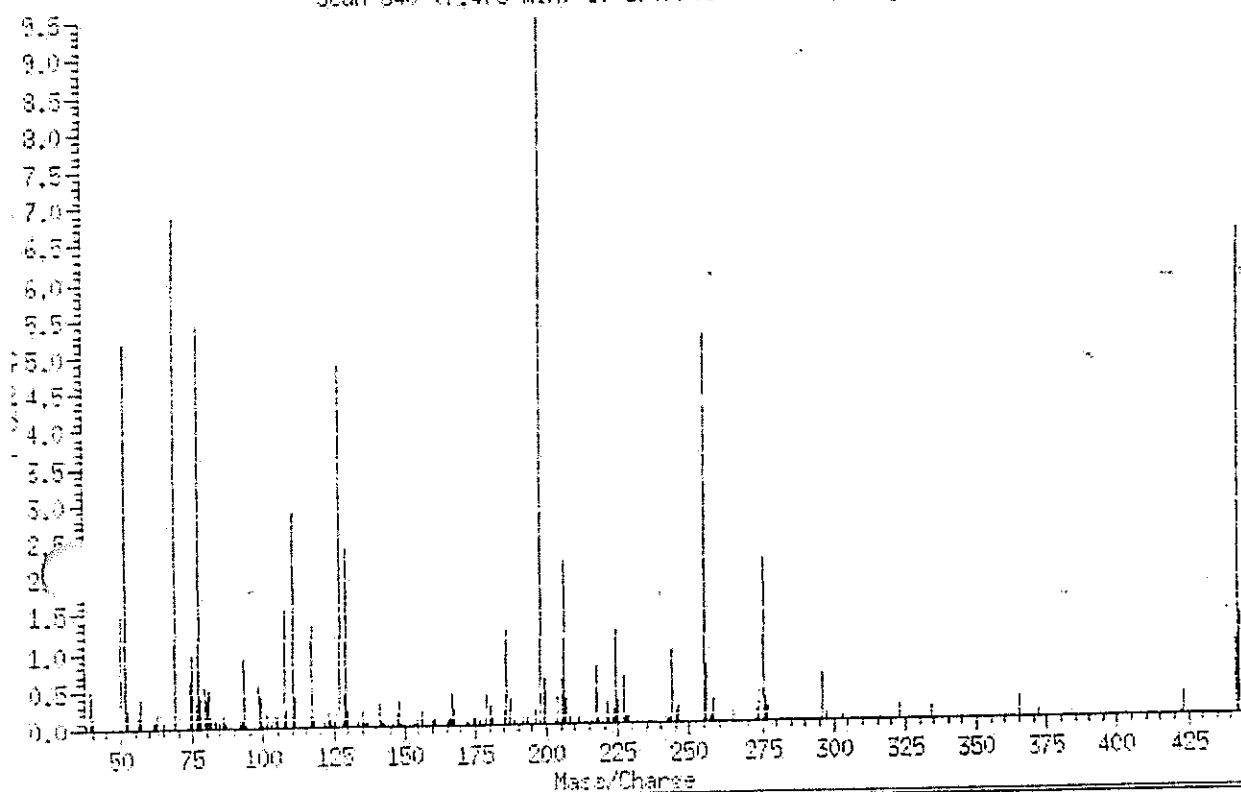
Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

1 dftpp

Scan 340 (7.473 min) of DFTPP080296.d (Averaged)



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.0
51	Mass 51 relative abundance	54.4
68	Mass 68 relative abundance	0.0
69	Mass 69 relative abundance	72.0
70	Mass 70 relative abundance	0.0
127	Mass 127 relative abundance	51.1
197	Mass 197 relative abundance	0.0
199	Mass 199 relative abundance	6.2
275	Mass 275 relative abundance	22.8
365	Mass 365 relative abundance	2.6
441	Mass 441 relative abundance	73.9
442	Mass 442 relative abundance	68.7
443	Mass 443 relative abundance	20.6

: 02-HUG-96 14:49

Instrument : msd3.1

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

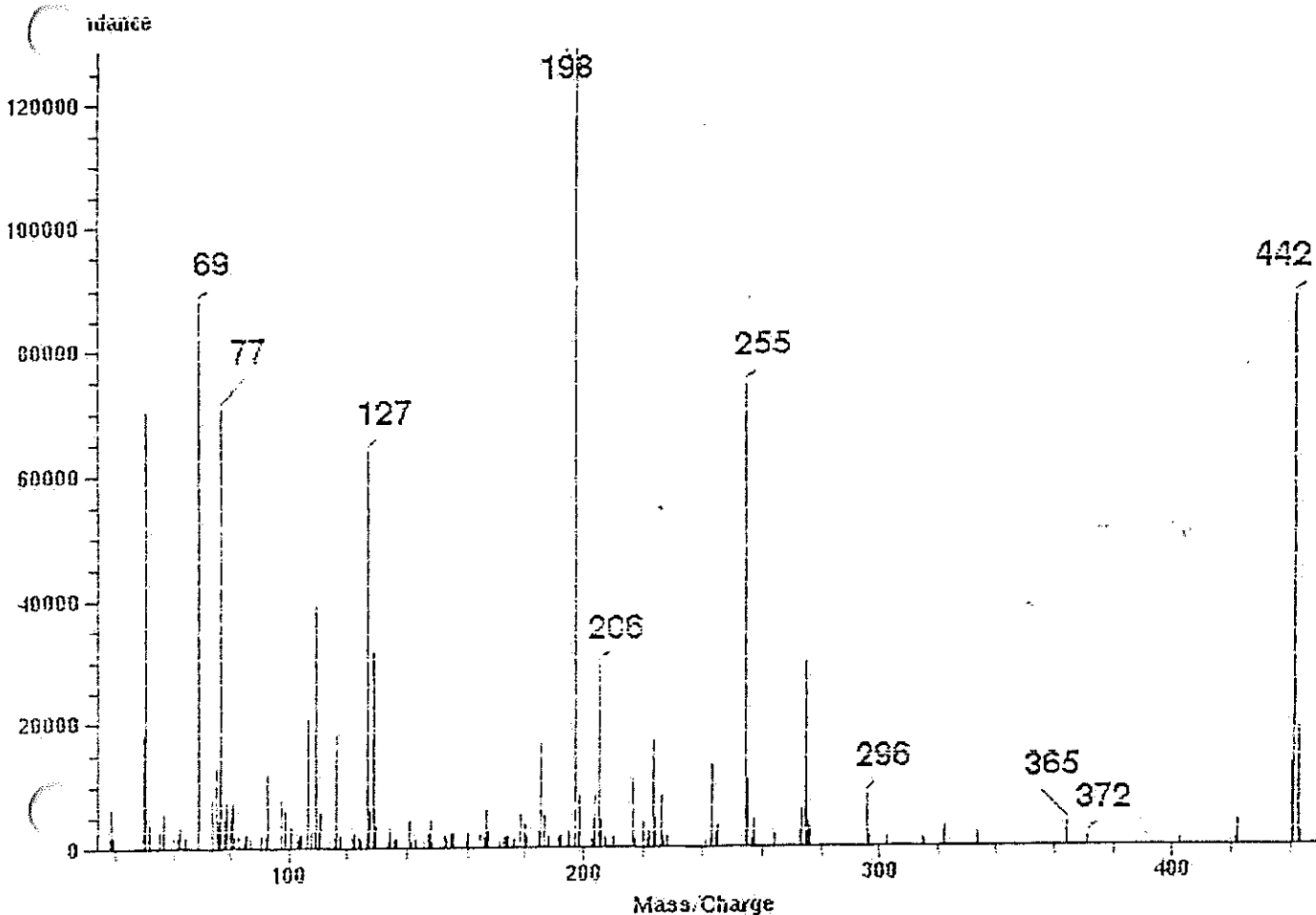
Volume Injected (uL) : 1.0

Spectrum: Scan 340-342 (7.475 min) Subtraction Scan 336

Base Peak: 198.00

Number of mass peaks: 159

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
58.00	725	104.00	1439	166.00	737	227.00	6079
59.00	4997	105.00	1199	167.00	4222	228.00	742
50.00	14740	107.00	15456	168.00	1925	229.00	963
51.00	51738	108.00	1994	172.00	502	242.00	531
52.00	2404	110.00	28738	173.00	396	245.00	655
56.00	1525	111.00	3840	174.00	836	244.00	9705
57.00	3774	116.00	1062	175.00	1492	245.00	1413
61.00	783	117.00	13354	177.00	595	246.00	2122
62.00	778	118.00	936	179.00	3735	255.00	52448
63.00	2143	122.00	938	180.00	2446	256.00	7464
65.00	821	123.00	1666	181.00	894	257.00	552
69.00	62466	124.00	785	185.00	1613	263.00	2971
73.00	252	125.00	686	186.00	12371	265.00	1217
74.00	2669	127.00	48605	187.00	3320	273.00	1575
75.00	9661	128.00	4262	189.00	679	274.00	4829
76.00	3330	129.00	23730	192.00	1121	275.00	21696
77.00	54048	130.00	1921	193.00	1295	276.00	2697
78.00	3836	134.00	529	196.00	1926	277.00	1746
79.00	5107	135.00	1773	198.00	95029	296.00	5986
80.00	3553	136.00	305	199.00	5906	297.00	775
81.00	5070	137.00	687	203.00	335	303.00	553
82.00	1018	141.00	2653	204.00	3462	315.00	332
83.00	753	142.00	592	205.00	5375	316.00	243
85.00	724	143.00	290	206.00	21767	323.00	1759
86.00	1317	146.00	235	207.00	3198	334.00	1327
87.00	602	147.00	1325	208.00	764	365.00	2473
91.00	1053	148.00	3214	211.00	741	372.00	889
92.00	950	149.00	250	216.00	255	403.00	260
93.00	3149	153.00	935	217.00	7621	422.00	246
94.00	243	154.00	317	218.00	720	423.00	2828
98.00	5423	155.00	1176	221.00	2738	441.00	9919
99.00	4210	156.00	1778	222.00	687	442.00	65272
100.00	257	160.00	696	223.00	1716	443.00	13423
101.00	1682	161.00	961	224.00	12239	444.00	1133
103.00	719	165.00	928	225.00	2895		



Ion abundance criteria	%relative abundance
30.0 - 60.0% of mass 198	54.6
Less than 2.0% of mass 69	0.0
Mass 69 relative abundance is	68.2
Less than 2.0% of mass 69	0.0
40.0 to 60.0% of mass 198	49.4
Less than 1.0% of mass 198	0.0
Base peak, 100% relative abundance	100.0
5.0 to 9.0% of mass 198	6.2
10.0 - 30.0% of mass 198	22.9
Greater than 1% of mass 198	2.7
Present, but less than mass 443	69.9
Greater than 40.0% of mass 198	68.4
17.0 - 23.0% of mass 442	21.3

EcoSys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.1 Injection Date: 02-AUG-1996 15:11
 Lab File ID: BNA0101001.d Init. Calibration Date(s): 03/10/93 07/29/96
 Analysis Type: WATER Init. Calibration Times: 11:35 08:30
 Lab Sample ID: Method File: /chem/msd3.1/3-080296.b/MA-BNA_2.m

COMPOUND	RRF	RF80	MIN	MAX
12-Fluorophenol	1.163	1.323	0.050	13.7
Phenol-d5	1.838	1.879	0.050	2.2
Aniline	2.065	2.080	0.050	0.7
Phenol **	1.799	1.924	0.050	6.9
Bis(2-chloroethyl) ether	1.619	1.710	0.050	5.6
2-Chlorophenol	1.388	1.378	0.050	0.7
1,3-Dichlorobenzene	1.439	1.412	0.050	1.8
1,4-Dichlorobenzene **	1.483	1.430	0.050	3.6
1,2-Dichlorobenzene	1.443	1.400	0.050	3.0
Benzyl alcohol	1.756	1.786	0.050	1.7
2-Methylphenol	1.284	1.264	0.050	1.5
Bis(2-chloroisopropyl) ether	2.323	2.502	0.050	8.0
2-Methylphenol	1.177	1.296	0.050	10.1
N-Nitrosodi-n-propylamine *	1.418	1.466	0.050	3.3
Hexachloroethane	0.844	0.880	0.050	4.2
Nitrobenzene-d5	0.729	0.723	0.050	0.9
Nitrobenzene	0.770	0.893	0.050	16.3
Isophorone	1.155	1.219	0.050	5.5
2-Nitrophenol **	0.270	0.274	0.050	1.2
2,4-Dimethylphenol	0.486	0.502	0.050	3.4
Bis(2-Chloroethoxy)methane	0.564	0.539	0.050	1.0
2,4-Dichlorophenol **	0.301	0.321	0.050	6.6
Benzoic acid	0.178	0.211	0.010	18.0
1,2,4-Trichlorobenzene	0.374	0.372	0.050	0.6
Naphthalene	1.053	1.026	0.050	2.5
4-Chloroaniline	0.379	0.357	0.050	6.0
Hexachlorobutadiene **	0.300	0.305	0.050	1.5
4-Chloro-3-methylphenol **	0.420	0.397	0.050	5.4
2-Methylnaphthalene	0.754	0.896	0.050	18.8
Hexachlorocyclopentadiene *	0.328	0.399	0.050	21.7
2,4,6-Trichlorophenol **	0.339	0.325	0.050	4.1
2,4,5-Trichlorophenol	0.379	0.344	0.050	9.2
2-Fluorobiphenyl	1.342	1.201	0.050	10.5
2-Chloronaphthalene	1.069	0.965	0.050	9.7
2-Nitroaniline	0.570	0.508	0.050	10.7
Dimethyl phthalate	1.423	1.335	0.050	6.1
2,6-Dinitrotoluene	0.328	0.301	0.050	8.2
Acenaphthylene	1.615	1.530	0.050	5.3
3-Nitroaniline	0.220	0.192	0.050	12.8
Acenaphthene **	1.013	0.970	0.050	4.3
2,4-Dinitrophenol *	0.128	0.118	0.050	8.2
4-Nitrophenol *	0.099	0.078	0.050	21.6
2,4-Dinitrotoluene	0.416	0.385	0.050	7.4
Dibenzofuran	1.400	1.310	0.050	6.5
2,4,6-Trichlorophenol	1.505	1.470	0.050	2.4

EcoSys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.1 Injection Date: 02-AUG-1996 15:11
 ab File ID: BNA0101001.d Init. Calibration Date(s): 03/10/93 07/29/96
 Analysis Type: WATER Init. Calibration Times: 11:35 08:30
 ab Sample ID: Method File: /chem/msd3.1/3-080296.b/NA-BNA_2.m

COMPOUND	RRF	RF80	MIN	MAX
=====	=====	=====	=====	=====
4-Chlorophenyl phenyl ether	0.578	0.536	0.050	7.4
Fluorene	1.062	1.029	0.050	3.1
4-Nitroaniline	0.166	0.122	0.050	21.5
4,6-Dinitro-2-methylphenol	0.168	0.177	0.050	5.3
N-Nitrosodiphenylamine **	0.466	0.436	0.050	6.5
1,2-Diphenylhydrazine	3.235	3.308	0.050	2.3
2,4,6-Tribromophenol	0.132	0.177	0.050	3.0
4-Bromophenyl phenyl ether	0.316	0.287	0.050	9.1
Hexachlorobenzene	0.343	0.354	0.050	3.3
Pentachlorophenol **	0.058	0.075	0.050	29.9
Phenanthrene	1.081	1.071	0.050	0.9
Anthracene	1.056	1.057	0.050	0.2
Carbazole	0.986	0.957	0.050	3.0
Di-n-butyl phthalate	1.679	1.836	0.050	9.3
Fluoranthene **	0.965	1.042	0.050	8.0
Pyrene	1.809	1.776	0.050	1.8
Terphenyl-d14	1.224	1.127	0.050	7.9
Butyl benzyl phthalate	1.012	1.046	0.050	3.4
Dioctyl adipate	0.765	0.815	0.050	6.6
3,3'-Dichlorobenzidine	0.254	0.191	0.050	24.6
Bis(2-ethylhexyl) phthalate	1.352	1.424	0.050	5.3
Benz(a)anthracene	1.249	1.242	0.050	0.6
Chrysene	1.190	1.213	0.050	2.0
Di-n-octyl phthalate **	2.813	2.936	0.050	4.4
Benzo(b)fluoranthene	1.470	1.573	0.050	7.0
Benzo(k)fluoranthene	1.554	1.502	0.050	3.4
Benzo(a)pyrene **	1.386	1.458	0.050	5.0
Indeno(1,2,3-cd)pyrene	1.188	1.323	0.050	11.4
Dibenz(a,h)anthracene	1.197	1.234	0.050	3.1
Benzo(g,h,i)perylene	1.188	1.315	0.050	10.8

EcoSys, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.1
ab File ID: ENA0101001.d
ab Sample ID:
Analysis Type: SU
Method File: /chem/msd3.1/3-080296.b/MA-ENA_2.m
isc Info: CONTINUE CALIBRATION
Calibration Date: 08/02/96
Calibration Time: 1600
Sample Type: WATER
Level: LOW

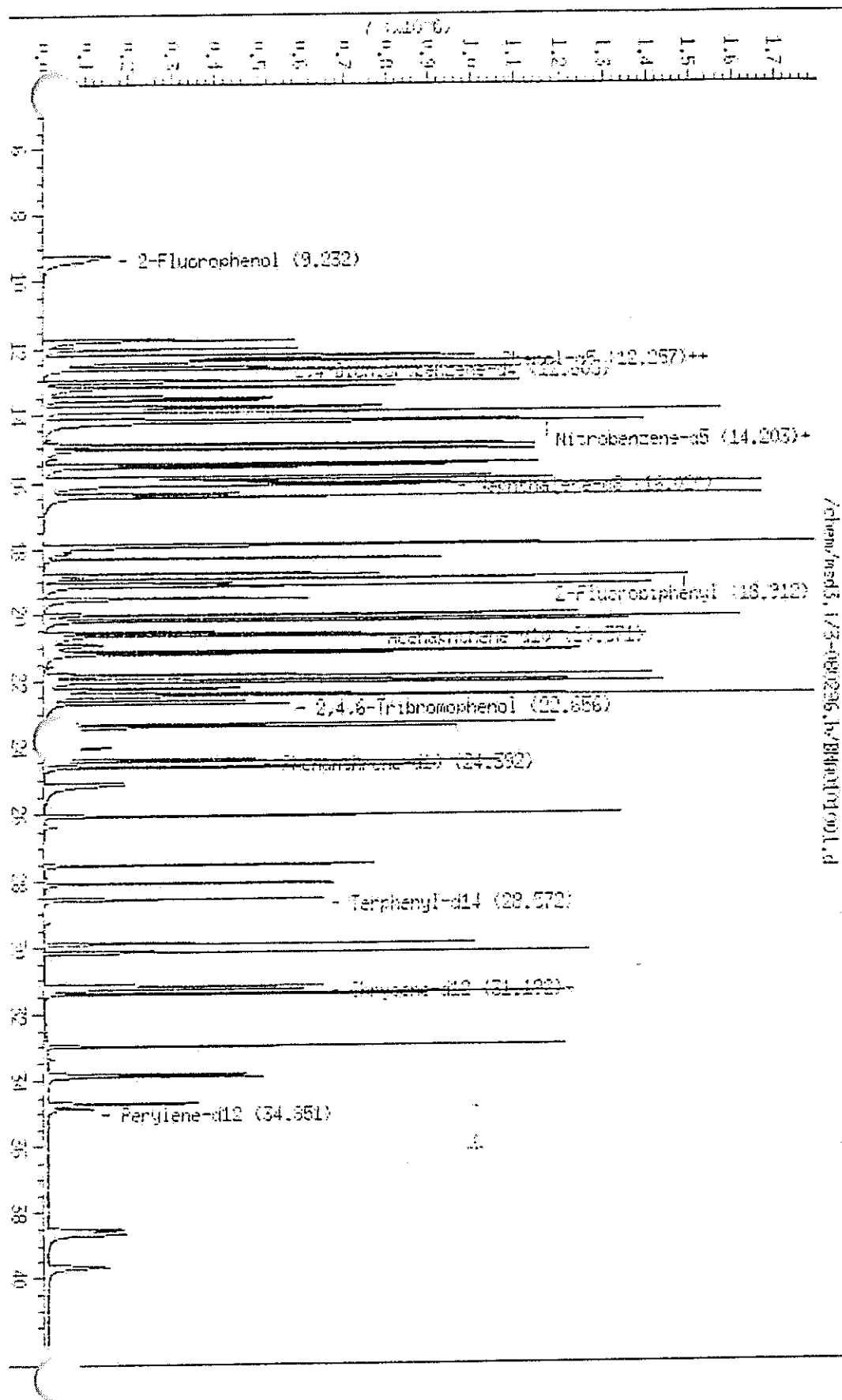
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	% DIFF
		LOWER	UPPER		
9 1,4-Dichlorobenzene-	166643	83321	333286	166643	0.00
26 Naphthalene-d8	575590	287795	1151180	575590	0.00
42 Acenaphthene-d10	352008	176004	704016	352008	0.00
59 Phenanthrene-d10	383206	191603	766412	383206	0.00
72 Chrysene-d12	228498	114249	456996	228498	0.00
78 Perylene-d12	184520	92260	369040	184520	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	% DIFF
		LOWER	UPPER		
9 1,4-Dichlorobenzene-	12.60	12.10	13.10	12.60	0.00
26 Naphthalene-d8	16.02	15.52	16.52	16.02	0.00
42 Acenaphthene-d10	20.57	20.07	21.07	20.57	0.00
59 Phenanthrene-d10	24.39	23.89	24.89	24.39	0.00
72 Chrysene-d12	31.21	30.71	31.71	31.21	0.00
78 Perylene-d12	34.85	34.35	35.35	34.85	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msd3,1/3-090296.bv/BHT01001.d
 Date: 02-000-1996 15:11
 Instrument: msd3.1
 Sample ID:
 Column phase:
 Volume Injected (ul): 1.0

Column diameter: 0.20

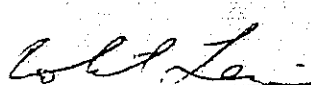


SemiVolatile Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107999	Extraction Method No.: 3550
Batch No(s): 0802960008	Date Extracted: 8/2/96
Lab File ID: BNA0201002	Date Analyzed: 8/2/96
Lab Sample ID: AB36436	Time Analyzed: 4:01
Cleanup Method: NA	Level: Low
Instrument ID: MSD-3	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	AB36702 LCS	BNA0301003	8/2/96
2	NA	AB36700 MS	BNA0801008	8/2/96
3	NA	AB36701 MSD	BNA0901009	8/2/96
4	8101-TK74-S1	AB36433	BNA1101011	8/2/96
5	8101-TK93-S1	AB36434	BNA1201012	8/3/96
6				
7				
8				
9				
10				


QA/QC Officer

Comments:

SemiVolatile LCS Recovery

Lab Name: EcoSys, Inc.

Client: ACE-SAD

Ledger No(s): 107999

Lab Control Spike: AB36702 LCS

Batch No(s): 0802960008

Lab File ID: BNA0301003

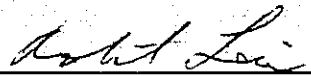
Compound	Spike Added (ug/Kg)	Sample	LCS	LCS % Recovery	#	QC Limits Recovery
		Conc. (ug/Kg)	Conc. (ug/Kg)			
Phenol	3330	NR	2120	64		26-90
2-Chlorophenol	3330	NR	2200	66		25-102
1,4-Dichlorobezene	1670	NR	1220	73		28-104
N-Nitroso-di-n-propylamine	1670	NR	1210	72		41-126
1,2,4-Trichlorobenzene	1670	NR	1100	66		38-107
4-Chloro-3-methylphenol	3330	NR	2640	79		26-103
Acenaphthene	1670	NR	1370	82		31-137
4-Nitrophenol	3330	NR	3210	96		11-114
2,4-Dinitrotoluene	1670	NR	1060	63		28-89
Pentachlorophenol	3330	NR	2480	74		17-109
Pyrene	1670	NR	1430	86		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): 107999	Level: Low
Batch No.(s): 0802960008	Matrix: Soil

Lab Sample No.	S1 (2FP) #	S2 (PHL) #	S3 (NBZ) #	S4 (FBP) #	S5 (TBP) #	S6 (TPH) #	Total Out
AB36436 MB	72	63	74	81	73	97	0
AB36702 LCS	71	68	62	77	70	90	0
AB36700 MS	59	55	55	76	76	84	0
AB36701 MSD	49	44	39	62	71	84	0
AB36433	49	41	43	64	65	77	0
AB36434	45	39	45	63	57	75	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 L. L...
QA/QC Officer

Comments: _____

General Chemistry Method Blank Summary

Lab Name: EcoSys, Inc.

Client: ACE-SAD

Ledger: 107999

Lab Sample ID: AB36436

Client Sample ID: Method Blank

Prep Date: 7/31/96

Batch ID: 7/31/96

	ANALYTE	BLANK VALUE	MDL mg/Kg	DATE ANALYZED
1	TPH 418.1	<MDL	5.0	7/31/96
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

Robert L. ...

QA/QC Officer

Comments:

**General Chemistry LCS
Recovery**

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107999	

LCS

	Spike Added mg/Kg	Sample Conc. mg/Kg	LCS Conc. mg/Kg	LCS % Recovery	QC Limits Required
TPH 418.1	199.5	NR	183	92	80-120

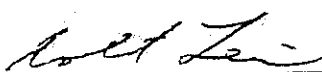
LCSD

	LCSD Conc. mg/Kg	LCSD % Recovery	% RPD	% RPD Limits
TPH 418.1	180	90	1.7	20

NR = Not Required

ND = Not Detected

NC = Not Calculable due to value(s) less than CRDL



QA/QC Officer

Comments:

General Chemistry Duplicate Recovery

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107999	

Sample 36322

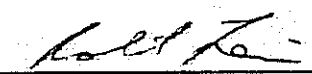
	Sample Result (mg/Kg)	Dup. Sample Result (mg/Kg)	% RPD
TPH 418.1	14150	13200	6.9

RPD Limit 20%

NR = Not Required

ND = Not Detected

NC = Not Calculable due to value(s) less than CRDL



QA/QC Officer

Comments:

External Standard Report

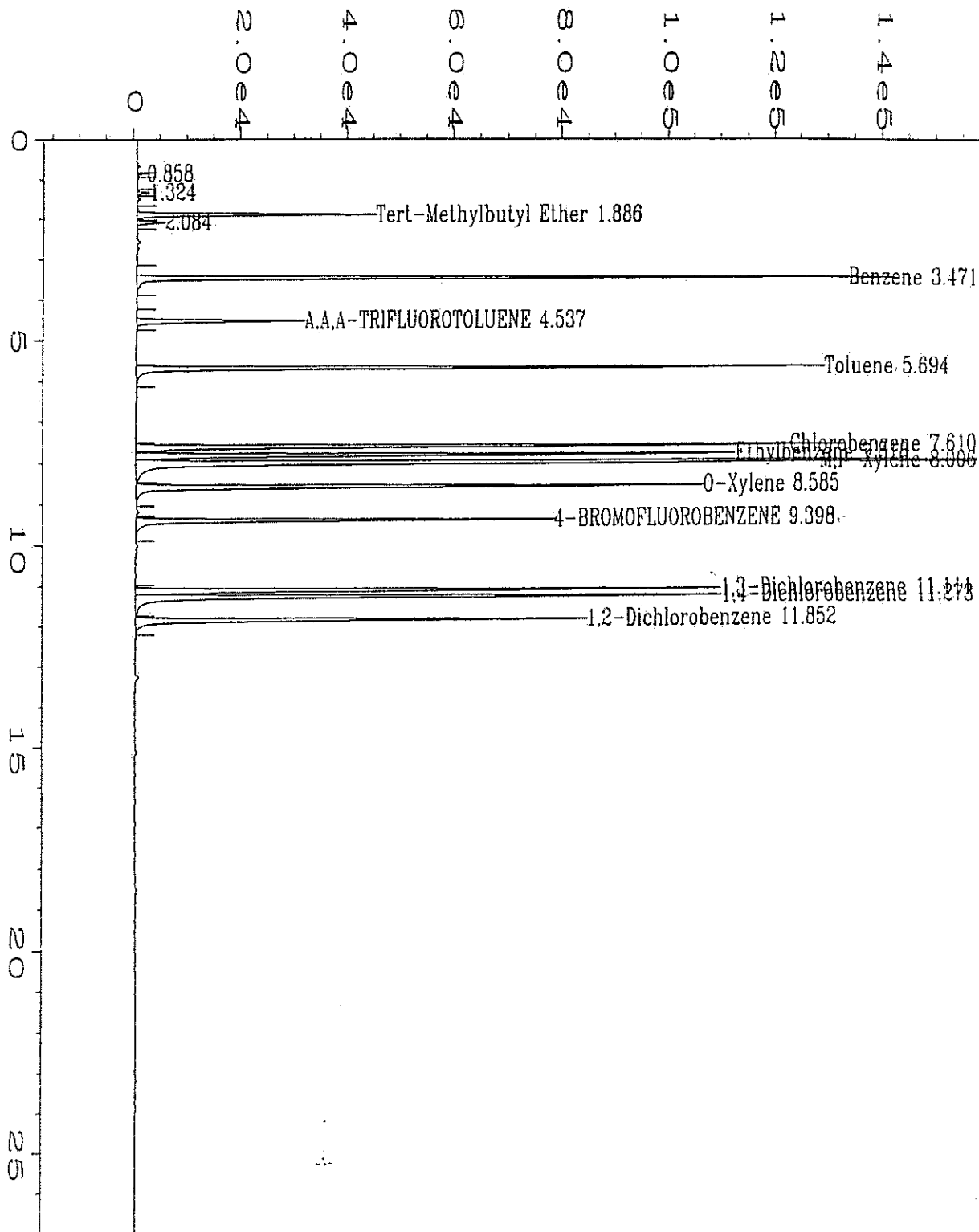
Data File Name : C:\HPCHEM\1\DATA\B080596\30805F01.D
 Operator : Doug Anderson
 Instrument : GC3
 Sample Name : 20ppb 8020 ccv
 Run Time Bar Code:
 Acquired on : 05 Aug 96 10:08 AM
 Report Created on: 19 Aug 96 01:37 PM
 Last Recalib on : 02 AUG 96 07:23 AM
 Multiplier : 1

Page Number : 1
 Vial Number : 1
 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\B080596\30805F01.D

Ret Time	Area	Type	Width	Ref#	ppb	Name
1.886	168195	BV	0.059	1	19.508	Tert-Methylbutyl Ether
3.471	508251	PB	0.056	1	19.461	Benzene
4.537	129708	PB	0.065	1	14.872	A,A,A-TRIFLUOROTOLUENE
5.694	493763	BB	0.060	1	19.518	Toluene
7.610	500005	BV	0.059	1	19.592	Chlorobenzene
7.818	451085	VV	0.063	1	19.772	Ethylbenzene
8.006	1049815	VV	0.064	1	39.935	M,P-Xylene
8.585	440774	VB	0.064	1	19.843	O-Xylene
9.398	312842	PB	0.062	1	15.621	4-BROMOFLUOROBENZENE
11.111	442053	BV	0.063	1	19.867	1,3-Dichlorobenzene
11.273	474686	VV	0.066	1	20.416	1,4-Dichlorobenzene
11.852	349398	VB	0.064	1	19.646	1,2-Dichlorobenzene

0805468W



Data File Name	: C:\HPCHEM\1\DATA\B080596\30805F01.D	Page Number	: 1
Operator	: Doug Anderson	Vial Number	: 1
Instrument	: GC3	Injection Number	: 1
Sample Name	: 20ppb 8020 ccv	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	3B080196.MTH
Acquired on	: 05 Aug 96 10:08 AM	Analysis Method	: 3B080196.MTH
Report Created on:	19 Aug 96 01:37 PM	Sample Amount	: 0
Last Recalib on	: 02 AUG 96 07:23 AM	ISTD Amount	:
Multiplier	: 1		

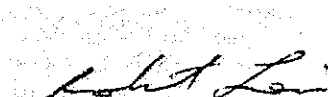
BTEX Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107999	
Batch No: 080596BW	Date Analyzed: 8/5/96
Lab File ID: 30805F02	Time Analyzed: 10:44
Lab Sample ID: AB36437	Level: Low
Instrument ID: GC3	Matrix: Water

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	AB36716 LCS	30805F03	8/5/96
2	NA	AB36717 MS	30805F04	8/5/96
3	NA	AB36718 MSD	30805F05	8/5/96
4	TRIP BLANK	AB36435	30805F06	8/5/96
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

NA = Not Applicable



QA/QC Officer

Comments:

Water BTEX MS/MSD Recovery

Lab Name: EcoSys, Inc.
 Ledger No: 107999
 Batch No: 080596BW
 Lab File ID: 30805F04/30805F05

Client: ACE-SAD
 Matrix Spike/Matrix Dup No: AB36435 REF
 AB36717 MS
 AB36718 MSD
 Level (Low/Med): Low

Compound	Spike Added (ug/L)	Sample Conc (ug/L)	MS Conc (ug/L)	MS % Recovery	#	QC Limits Recovery
Benzene	20	ND	17	86		80-120
Toluene	20	ND	18	88		80-120
Ethylbenzene	20	ND	18	88		80-120
m,p-Xylene	40	ND	35	88		80-120
o-Xylene	20	ND	18	89		80-120

Compound	Spike Added (ug/L)	MSD Conc (ug/L)	MSD % Recovery	#	% RPD	#	QC Limits RPD	Recovery
Benzene	20	17	84		2		30	80-120
Toluene	20	17	85		3		30	80-120
Ethylbenzene	20	17	86		2		30	80-120
m,p-Xylene	40	34	86		2		30	80-120
o-Xylene	20	17	86		3		30	80-120

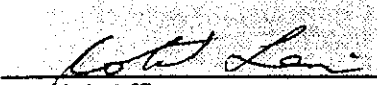
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ND = None Detected

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits


 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.	28
Customer	Trippe R' Mgmt	Description	Pcs
Project Number	KRR-104		
Location	St. Stewart	County	Liberty

37740 lb Net

21300 lb Tare

59040 lb+ Gross

01:59 PM AU 12 96

Signature of Weigher

TONS:

18,87

TOTAL TONS:

428,98
~~18,87~~

TRUCKER

DRIVER

TRUCK NO.

TICKET NO.

Hendrix

Parks

46

58845

NON-HAZARDOUS WASTE MANIFEST

Manifest
Document No.
000261. 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 Constr Co.
Rt. 84
Ludowici, GA 31316

A. Transporter's Phone
B. Transporter's Phone 912-427-6756
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 # 93

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year
08 06 96

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year
08 12 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

Signature

Month Day Year
08 12 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.	231
Triple "R" Mant.		Pcs	
Customer	RRR 104	Description	
Project Number	ST STEWART	Liberty	
Location		County	

39220 lb Net
21400 lb Tare
60620 lb+ Gross
02:13 PM AU 12 96

<u>Charles</u>	
Signature of Weigher	
TONS:	19.61
TOTAL TONS:	455.18
<u>Wendrix</u>	
TRUCKER	50
<u>S. Papp</u>	
DRIVER	
TICKET NO.	58848

50

95

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. 00015

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 Address
Tripled Management, Inc.
c/o Reynolds Constr 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 # 93

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 C. Fry

Signature

Tom C. Fry

Month Day Year

10 8 10 6 96

13. Transporter 1 Acknowledgement or Receipt of Materials

Printed/Typed Name

Shope

Signature

Shawn Pope

Month Day Year

8 12 96

14. Transporter 2 Acknowledgement or Receipt of Materials

Printed/Typed Name

Charles Pruitt

Signature

Charles Pruitt

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

Signature

Month Day Year

10 8 12 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.	25
Customer	Triple "R" Mgmt	Description	Pe's
Project Number	RRR-10-1		
Location	Pt Stewart	County	Liberty

39460 1b Net

21080 1b Tare

60540 1b+ Gross

02:20 PM AU 12 96

Signature of Weigher

TONS:

19.73

TOTAL TONS:

505.21
~~485.21~~

TRUCKER

DRIVER

TRUCK NO.

TICKET NO.

Hendrix
Russell Simpson

60

58849

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. 500-1-1

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 Constr 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 # 93

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 C. Fry

Signature

Tom C. Fry

Month Day Year

10/8/96

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

RUSSELL SAMPLES

Signature

Russell Samples

Month Day Year

10/8/96

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

Signature

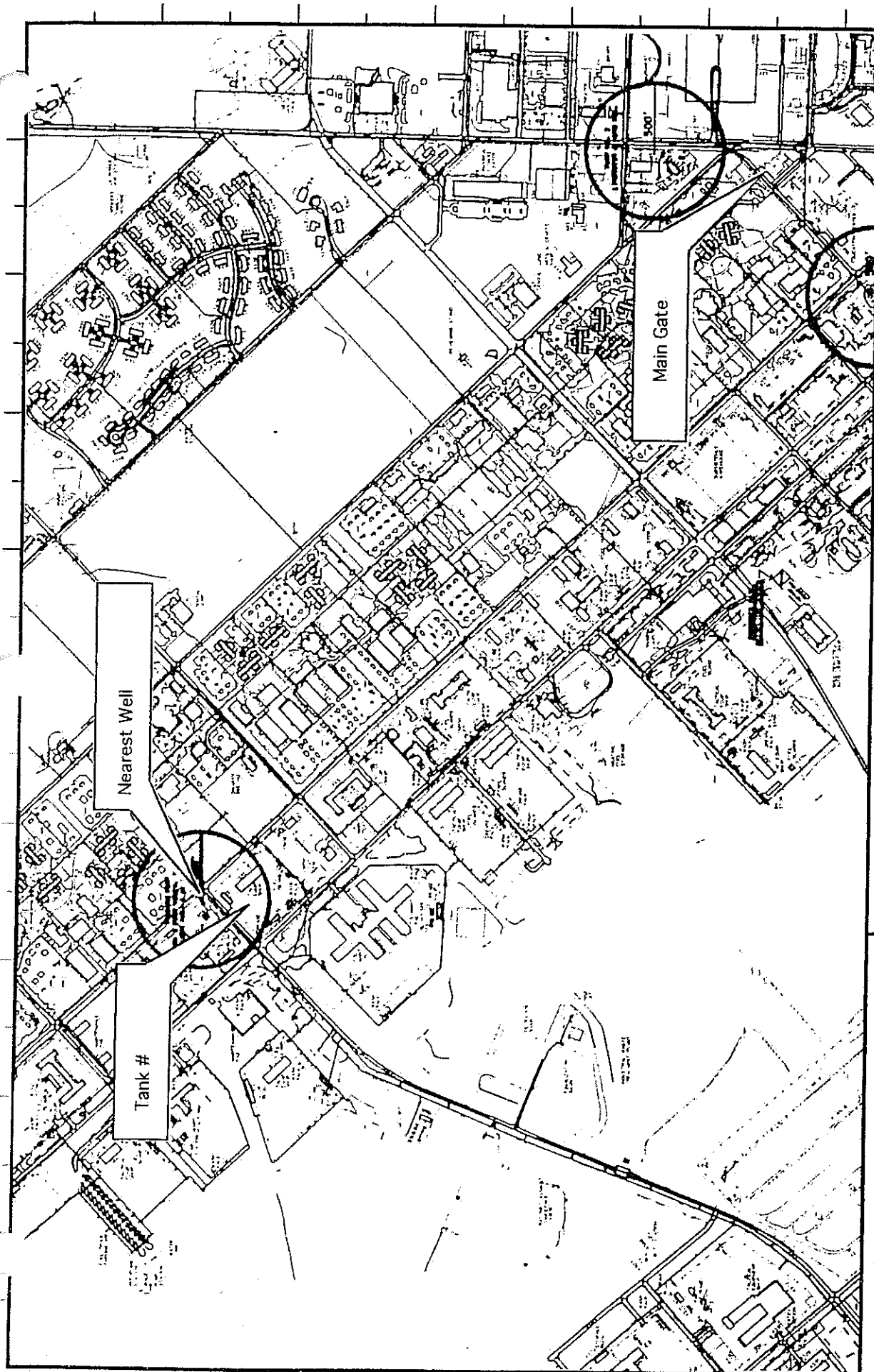
Month Day Year

10/8/96

ORIGINAL - RETURN TO GENERATOR

TAB 10

FORT STEWART AREA MAP



LEGEND/REF. DRWG'S	ANDERSON COLUMBIA ENVIRONMENTAL INC. P. O. BOX 1386 LAKE CITY, FLORIDA 32056 (904) 755-1196		Area Map for Tank # Fort Stewart Hinesville, Georgia
	DR. AJR CH'D SRC DR. APP. DFB ENGR. ENGR'G DEPT. DATE 9 Oct 96 SCALE		DRAWING NO.: FIGURE 1
Basic map of Fort Stewart.			

CLOSURE REPORT ADDENDUM #2

FACILITY IDENTIFICATION #9-089112
UST #93

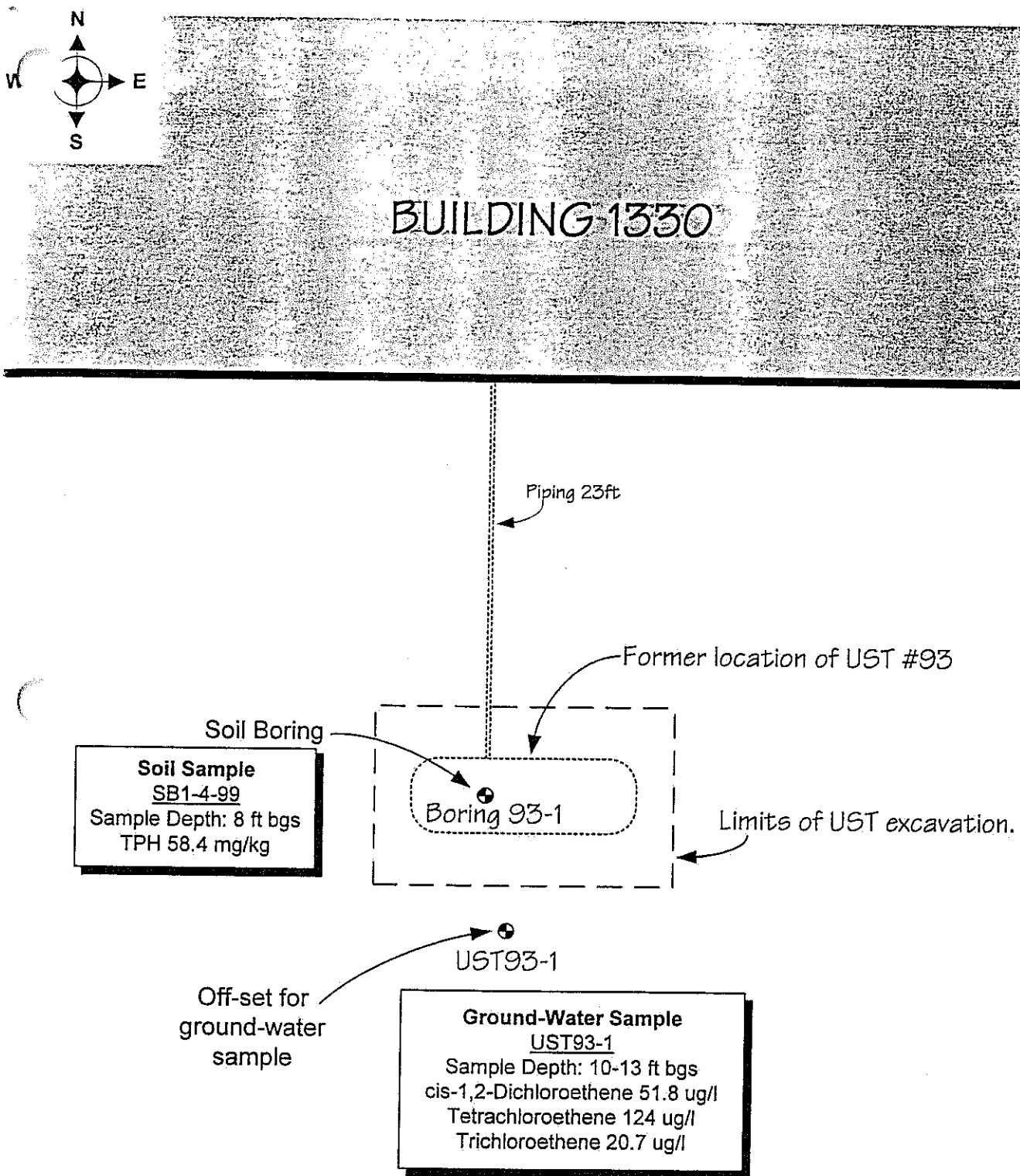
MAY 28, 1999

NOTE: PLEASE INSERT THIS ADDENDUM INTO THE CLOSURE REPORT AND
CLOSURE REPORT ADDENDUM SUBMITTED TO THE USTMP IN NOVEMBER 1996
AND APRIL 1998, RESPECTIVELY

CLOSURE REPORT ADDENDUM #2 (MAY 1999)
UST #93, FACILITY ID. NO. 9-089112

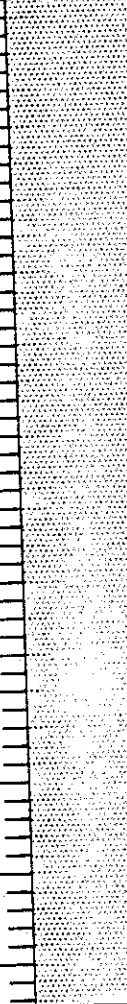
SITE MAPS
TAB 5

Attached is a site map indicating the location of the borings installed in April 1999, for resampling of the site. In addition, a soil boring log is provided for your use and convenience.



UNITED STATES ARMY
FORT STEWART, GEORGIA
FORMER UST #93
Facility ID No. 9-089112
Figure 1
Site Map

T RESAMPLING		10. DATE	26 APRIL 99	PAGE 1 OF 1 PAGES
R STEWART, GEORGIA		11. SIZE AND TYPE OF BORING	1.5 in O.D. direct-push	
T 93, BLDG. 1330		12. TYPE OF DRILL OR PROBE EQUIPMENT USED	GEOPROBE MULE MODEL 4220	
NUMBER -1		13. TOTAL NUMBER OF SAMPLES TAKEN	2 (TWO)	
SAS-EN-GG		14. DATUM FOR ELEVATION SHOWN (TBM or MSL)	N/A	
BATH		15. ELEVATION OF GROUND WATER	N/A	
VERTICAL		16. ELEVATION TOP OF HOLE	N/A	
BORING/PROBE 15 ft / 3.5 m		17. INSPECTOR / GEOLOGIST	M. FIFE	

15 ft / 3.5 m		M. T. H. E.			
DEPTH / meters	LEGEND	DESCRIPTION	SCREEN OVA / PID	SAMPLE NUMBER	REMARKS
		Concrete Slab	NOTE: No samples for headspace analysis were collected.		
1		UST pit backfill material consisting of a red to reddish-brown, mottled tan to brown, clayey sand.			
2					
3					
4					
6					
7					
8					
9					
10					
11					
12		Concrete Slab			
13					
14					
15					

Collected by Geoprobe® Large Bore™ Sampler

LAB ANALYSIS
EPA 8260
EPA 418.1

Collected by Geoprobe® Screen-Point Sampler

LAB ANALYSIS
EPA 8260
EPA 8270

NOTE: A ground-water sample could not be retrieved from Boring 93-1 due to the hold-down slab for the former UST. The boring was off-set and a sample was retrieved from a directly adjacent probe point.

CLOSURE REPORT ADDENDUM #2 (MAY 1999)
UST #93, FACILITY ID. NO. 9-089112

CLOSURE OF PIPING
TAB 6

The undersigned again certifies that the piping associated with UST #93, formerly located at Building 1330, Fort Stewart, GA, was purged and cleaned by our contractor, Anderson Columbia Environmental, prior to abandoning the piping in-place. In-place closure consisted of placing an absorbent sock in the pipe and then grouting the ends.

The undersigned also certifies that the piping at this facility was associated with UST #93, which was used for storage of waste oil. The piping was not greater than 25 feet. Therefore, in accordance with GUST-9, pipeline sampling is not required.

Name: Thomas C. Fry

Title: Acting Chief, Environmental &
Natural Resources Division

Signature: Thomas C. Fry

Date: 05/28/99

CLOSURE REPORT ADDENDUM #2 (MAY 1999)
UST #93, FACILITY ID. NO. 9-089112

LABORATORY ANALYTICAL DATA
TAB 7

As requested, the site was resampled and the associated analytical data, with a summary table, is attached.

Groundwater Sampling Results (April 1999 Sampling)
 Building 1330, UST 93
 Fort Stewart, Georgia
 Facility ID NO. 9-089112

FORT STEWART UST 93		MCL	UST93-1 30-Apr 11:35 GW USACE SPECIALIZED ASSAYS 5-May 99-A63326	RL
FIELD IDENTIFICATION				
SAMPLING DATE				
SAMPLING TIME				
TYPE OF SAMPLE(Soil or Groundwater)				
SAMPLED BY				
TESTING LABORATORY				
DATE RECEIVED				
TESTING LAB SAMPLE NUMBER				
PURGEABLES, SW 846 METHOD 8260B				
Units (ug/L)			8260B	ug/L
cis-1,2-Dichloroethene		ug/L		10
Tetrachloroethene		70	ug/L	10
Trichloroethene		5	124	10
SVOC'S, SW 846 Method , 8270C		5	20.7	10
			8270C	
			No Analytes Detected	

RL - Reporting limits of the analytical lab.

Soil Sampling Results (April 1999 Sampling)
 Building 1330, UST 93
 Fort Stewart, Georgia
 Facility ID NO. 9-089112

FORT STEWART UST 93	Soil Threshold Levels	SB1-4-99 26-Apr 12:10 SOIL USACE SPECIALIZED ASSAYS 28-May 99-A59770	
FIELD IDENTIFICATION			
SAMPLING DATE			
SAMPLING TIME			
TYPE OF SAMPLE(Soil or Groundwater)			
SAMPLED BY			
TESTING LABORATORY			
DATE RECEIVED			
TESTING LAB SAMPLE NUMBER			
PURGEABLES, SW 846 METHOD 8260B		8260B	
TPH Method 418.1	-	No Analytes Detected	
Units (mg/kg)	mg/kg	418.1	
TPH		mg/kg	
		58.4	

NOTE:

1 - Where no level exists for a compound
 a dash "-" was placed in the data block.

Chain of Custody Record

141656

HYKULUWIC, INC. 0604

- ☐ Asheville, NC (704) 254-5169
☒ Norcross, GA (770) 368-0636
☐ Brighton, CO (303) 659-0497
☐ Frankfort, KY (502) 223-0251
☐ Lumberton, NC (910) 738-6190
☐ Charlotte, NC (704) 392-1164
☐ Morrisville, NC (919) 380-9699
☐ Lexington, SC (803) 796-8989
☐ Richmond, VA (804) 338-3145
☐ Burlington, NC (910) 570-4661
☐ Macon, GA (912) 757-0811

REQUESTED PARAMETERS

LAB CODE 1

- A = Asheville, NC
 B = Burlington, N
 C = Charlotte, NC
 D = Denver, CO
 E = Lexington, S
 G = Macon, GA
 K = Frankfort, K
 L = Lumberton, I
 M = Morrisville,
 N = Norcross, G
 O = Orlando, FL
 R = Richmond, V
 S = Subcontract

Client: CE595-EN-64 Project No.: UST93
 Report Address: Box 889 Invoice Address:
 SNU, GA 31402
 Attn: ALPULSON Attn: ALPULSON
 Phone No.: 912-652-5151 Sampled By: FIEC
 Fax No.: 912-652-5311 P.O. No.: 167
 State Samples Collected: GA

TURNAROUND TIME
☒ 24 Hours ☐ 48 Hours
☐ 5 Days ☐ 10 Days
 Date Needed: 5/1/55

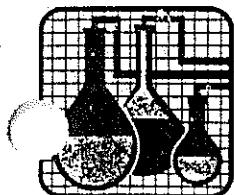
Sample ID Date Time Cont'd Grub Marla Containers
 UST93-1 4/30/135 G AQ 3 X X 4

6332d

← Preserv. REMARKS

COMMENTS: EXPEDITED TURN-AROUND * 4°C
 Norcross to Invoice 4C 3A B 5859

Relinquished By: <u>Walt B</u>	Date: <u>5/1/55</u>	Time: <u>10:00</u>	Received By: <u>SHIPPER</u>	Date: <u>5/2/55</u>	Time: <u>10:00</u>	Lab Use Only
Relinquished By: <u>Walt B</u>	Date: <u>5/1/55</u>	Time: <u>10:00</u>	Received By: <u>3.08 1928</u>	Date: <u>5/1/55</u>	Time: <u>10:00</u>	
Relinquished By: <u>3.00 08</u>	Date: <u>5/1/55</u>	Time: <u>11:30</u>	Received By: <u>M. Boly</u>	Date: <u>5/5/55</u>	Time: <u>4:00</u>	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	



SPECIALIZED ASSAYS, INC.

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

ANALYTICAL REPORT

TESTAMERICA/HYDROLOGIC, INC. 5859

1412 OAK BROOK DR., SUITE 105
NORCROSS, GA 30093

Lab Number: 99-A63326

Sample ID: UST93-1

Sample Type: Ground water

Site ID:

Project: UST 93

Project Name: CESAS-EN-GG

Sampler:

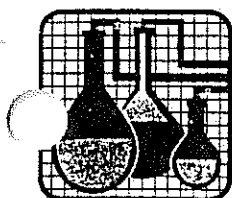
Date Collected: 4/30/99

Time Collected: 11:35

Date Received: 5/ 5/99

Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Acenaphthylene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Anthracene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Benzo(a)anthracene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Benzo(a)pyrene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Benzo(b)fluoranthene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Benzo(g,h,i)perylene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Benzo(k)fluoranthene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
4-Bromophenyl-phenylether	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Butylbenzylphthalate	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Carbazole	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
4-Chloro-3-methylphenol	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
4-Chloroaniline	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Bis(2-chloroethoxy)methane	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Bis(2-chloroethyl)ether	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Bis(2-chloroisopropyl)ether	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
2-Chloronaphthalene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
2-Chlorophenol	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
4-Chlorophenyl-phenylether	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Chrysene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Dibenzofuran	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Dibenz(a,h)anthracene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
1,2-Dichlorobenzene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
1,3-Dichlorobenzene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
1,4-Dichlorobenzene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
3,3'-Dichlorobenzidine	ND	ug/l	20.	20.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
2,4-Dichlorophenol	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Diethylphthalate	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
2,4-Dimethylphenol	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Dimethylphthalate	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Di-n-Butylphthalate	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
4,6-Dinitro-2-methylphenol	ND	ug/l	25.	25.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
2,4-Dinitrophenol	ND	ug/l	25.	25.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
2,4-dinitrotoluene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
2,6-Dinitrotoluene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Di-n-octylphthalate	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454
Fluoranthene	ND	ug/l	10.	10.	1	5/ 6/99	11:12	M. Goodrich	8270C	454



SPECIALIZED ASSAYS, INC.

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

ANALYTICAL REPORT

Laboratory Number: 99-A63326
Sample ID: UST93-1

Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
2-Chlorotoluene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
4-Chlorotoluene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	5/ 6/99	0:16	S. Wani	8260B	9936
Dibromochloromethane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,2-Dibromoethane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
Dibromomethane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,2-Dichlorobenzene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,3-Dichlorobenzene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,4-Dichlorobenzene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
Dichlorodifluoromethane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,1-Dichloroethane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,2-Dichloroethane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,1-Dichloroethene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
cis-1,2-Dichloroethene	51.8	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,2-Dichloropropane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,3-Dichloropropane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
2,2-Dichloropropane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,1-Dichloropropene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
Ethylbenzene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
Hexachlorobutadiene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
2-Hexanone	ND	ug/l	10	10	1	5/ 6/99	0:16	S. Wani	8260B	9936
Isopropylbenzene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
4-Isopropyltoluene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
4-Methyl-2-pentanone	ND	ug/l	10	10	1	5/ 6/99	0:16	S. Wani	8260B	9936
Methylene chloride	ND	ug/l	5	5	1	5/ 6/99	0:16	S. Wani	8260B	9936
Naphthalene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
n-Propylbenzene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
Styrene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
Tetrachloroethene	124	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
Toluene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,1,1-Trichloroethane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,1,2-Trichloroethane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
Trichloroethene	20.7	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,2,3-Trichloropropane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,2,4-Trinethylbenzene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
1,3,5-Trinethylbenzene	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
Vinyl chloride	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
Xylenes	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936
Bromodichloromethane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936

SPECIALIZED ASSAYS, INC.

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ANALYTICAL REPORT

Laboratory Number: 99-A63326
Sample ID: U6T93-1

Page 4

	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
fluoromethane	ND	ug/l	2	2	1	5/ 6/99	0:16	S. Wani	8260B	9936

detected at the report limit.

Extraction Data

Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
960. mL	1.0 mL	5/ 5/99	M. Cauthen	3510

	% Recovery	Target Range
ate, 1,2-Dichloroethane, d4	97.	60. - 138.
ate, Toluene d8	87.	80. - 123.
ate, 4-Bromofluorobenzene	85.	73. - 122.
ate, Dibromofluoromethane	83.	74. - 133.
benzene-d5	41.	15. - 105.
robiphenyl	26.	17. - 110.
enyl d14	12.	10. - 116.
l d5	18.	10. - 100.
rophenol	20.	9. - 100.
-Tribromophenol	30.	15. - 134.

Not Approved By:

Russell Morgan

Report Date: 5/ 6/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director
Russell Morgan, Technical Services

Laboratory Certification Number: 387



SPECIALIZED ASSAYS, INC.

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PROJECT QUALITY CONTROL DATA

Matrix Spike Recovery

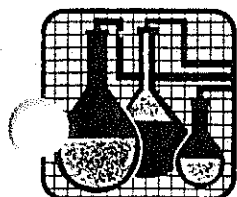
Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	R.C. Batch
Acenaphthene	ng/l	< 0.0100	0.0770	0.1000	77	46. - 129.	454
4-Chloro-3-methylphenol	ng/l	< 0.0100	0.0780	0.1000	78	43. - 139.	454
2-Chlorophenol	ng/l	< 0.0100	0.0770	0.1000	77	47. - 113.	454
1,4-Dichlorobenzene	ng/l	< 0.0100	0.0700	0.1000	70	46. - 108.	454
2,4-dinitrotoluene	ng/l	< 0.0100	0.0880	0.1000	88	41. - 126.	454
4-Nitrophenol	ng/l	< 0.0250	0.0890	0.1000	89	14. - 150.	454
N-Nitroso-Di-n-Propylamine	ng/l	< 0.0100	0.0850	0.1000	85	47. - 142.	454
Pentachlorophenol	ng/l	< 0.0250	0.0710	0.1000	71	33. - 135.	454
Phenol	ng/l	< 0.0100	0.0790	0.1000	79	13. - 145.	454
Pyrene	ng/l	< 0.0100	0.0670	0.1000	67	40. - 149.	454
1,2,4-Trichlorobenzene	ng/l	< 0.0100	0.0710	0.1000	71	41. - 127.	454
Benzene	ng/l	< 0.0020	0.0576	0.0500	115	66. - 135.	9936
Chlorobenzene	ng/l	< 0.0020	0.0546	0.0500	109	68. - 134.	9936
1,1-Dichloroethene	ng/l	< 0.0020	0.0575	0.0500	115	59. - 144.	9936
Toluene	ng/l	< 0.0020	0.0590	0.0500	118	55. - 151.	9936
Trichloroethene	ng/l	< 0.0020	0.0627	0.0500	125	54. - 153.	9936

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	R.C. Batch
Acenaphthene	ng/l	0.0770	0.0790	2.56	25.	454
4-Chloro-3-methylphenol	ng/l	0.0780	0.0810	3.77	25.	454
2-Chlorophenol	ng/l	0.0770	0.0790	2.56	22.	454
1,4-Dichlorobenzene	ng/l	0.0700	0.0710	1.42	49.	454
2,4-dinitrotoluene	ng/l	0.0880	0.0910	3.35	43.	454
4-Nitrophenol	ng/l	0.0890	0.0940	5.46	49.	454
N-Nitroso-Di-n-Propylamine	ng/l	0.0850	0.0870	2.33	39.	454
Pentachlorophenol	ng/l	0.0710	0.0750	5.48	34.	454
Phenol	ng/l	0.0790	0.0790	0.00	35.	454
Pyrene	ng/l	0.0670	0.0690	2.94	36.	454
1,2,4-Trichlorobenzene	ng/l	0.0710	0.0740	4.14	26.	454
Benzene	ng/l	0.0576	0.0548	4.98	18.	9936
Chlorobenzene	ng/l	0.0546	0.0546	0.00	20.	9936
1,1-Dichloroethene	ng/l	0.0575	0.0543	5.72	52.	9936
Toluene	ng/l	0.0590	0.0548	7.38	22.	9936
Trichloroethene	ng/l	0.0627	0.0592	5.74	18.	9936

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	R.C. Batch
Acenaphthene	ng/l	0.0500	0.0440	88	60 - 140	454
Acenaphthylene	ng/l	0.0500	0.0460	92	60 - 140	454
Anthracene	ng/l	0.0500	0.0510	102	60 - 140	454
Benzo(a)anthracene	ng/l	0.0500	0.0490	98	60 - 140	454



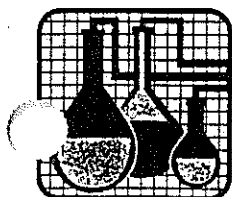
SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
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PROJECT QUALITY CONTROL DATA

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	D.C. Match
Benzo(a)pyrene	ng/l	0.0500	0.0500	100	60 - 140	454
Benzo(b)fluoranthene	ng/l	0.0500	0.0360	72	60 - 140	454
Benzo(g,h,i)perylene	ng/l	0.0500	0.0480	96	60 - 140	454
Benzo(k)fluoranthene	ng/l	0.0500	0.0560	112	60 - 140	454
4-Bromophenyl-phenylether	ng/l	0.0500	0.0440	88	60 - 140	454
Butylbenzylphthalate	ng/l	0.0500	0.0620	124	60 - 140	454
Carbazole	ng/l	0.0500	0.0610	122	60 - 140	454
4-Chloro-3-methylphenol	ng/l	0.0500	0.0450	90	60 - 140	454
4-Chloroaniline	ng/l	0.0500	0.0650	130	60 - 140	454
Bis(2-chloroethoxy)methane	ng/l	0.0500	0.0550	110	60 - 140	454
Bis(2-chloroethyl)ether	ng/l	0.0500	0.0490	98	60 - 140	454
Bis(2-chloroisopropyl)ether	ng/l	0.0500	0.0510	102	60 - 140	454
2-Chloronaphthalene	ng/l	0.0500	0.0470	94	60 - 140	454
2-Chlorophenol	ng/l	0.0500	0.0470	94	60 - 140	454
4-Chlorophenyl-phenylether	ng/l	0.0500	0.0320	64	60 - 140	454
Chrysene	ng/l	0.0500	0.0450	90	60 - 140	454
Dibenzofuran	ng/l	0.0500	0.0440	88	60 - 140	454
Dibenz(a,h)anthracene	ng/l	0.0500	0.0450	90	60 - 140	454
1,2-Dichlorobenzene	ng/l	0.0500	0.0410	82	60 - 140	454
1,3-Dichlorobenzene	ng/l	0.0500	0.0450	90	60 - 140	454
1,4-Dichlorobenzene	ng/l	0.0500	0.0430	86	60 - 140	454
3,3'-Dichlorobenzidine	ng/l	0.0500	< 0.0200	N/A	60 - 140	454
2,4-Dichlorophenol	ng/l	0.0500	0.0500	100	60 - 140	454
Diethylphthalate	ng/l	0.0500	0.0460	92	60 - 140	454
2,4-Dimethylphenol	ng/l	0.0500	0.0360	72	60 - 140	454
Dimethylphthalate	ng/l	0.0500	0.0520	104	60 - 140	454
Di-n-butylphthalate	ng/l	0.0500	0.0640	128	60 - 140	454
4,6-Dinitro-2-methylphenol	ng/l	0.0500	0.0480	96	60 - 140	454
2,4-Dinitrophenol	ng/l	0.0500	0.0470	94	60 - 140	454
2,4-dinitrotoluene	ng/l	0.0500	0.0500	100	60 - 140	454
2,6-Dinitrotoluene	ng/l	0.0500	0.0510	102	60 - 140	454
Di-n-octylphthalate	ng/l	0.0500	0.0580	116	60 - 140	454
Fluoranthene	ng/l	0.0500	0.0440	88	60 - 140	454
Fluorene	ng/l	0.0500	0.0430	86	60 - 140	454
Hexachlorobenzene	ng/l	0.0500	0.0370	74	60 - 140	454
Hexachlorobutadiene	ng/l	0.0500	0.0330	66	60 - 140	454
Hexachlorocyclopentadiene	ng/l	0.0500	0.0310	62	60 - 140	454
Hexachloroethane	ng/l	0.0500	0.0430	86	60 - 140	454
Indeno(1,2,3-cd)pyrene	ng/l	0.0500	0.0460	92	60 - 140	454
Isophorone	ng/l	0.0500	0.0540	108	60 - 140	454
2-Methylnaphthalene	ng/l	0.0500	0.0460	92	60 - 140	454
2-Methylphenol	ng/l	0.0500	0.0440	88	60 - 140	454
3 and 4-Methylphenol	ng/l	0.0500	0.0410	82	60 - 140	454
Naphthalene	ng/l	0.0500	0.0420	84	60 - 140	454
2-Nitroaniline	ng/l	0.0500	0.0640	128	60 - 140	454
3-Nitroaniline	ng/l	0.0500	0.0630	126	60 - 140	454



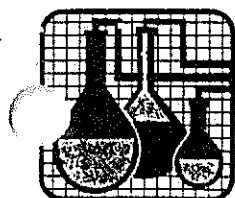
SPECIALIZED ASSAYS, INC.

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

PROJECT QUALITY CONTROL DATA

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	R.C. Batch
4-Nitroaniline	ng/l	0.0500	0.0620	124	60 - 140	454
Nitrobenzene	ng/l	0.0500	0.0480	96	60 - 140	454
2-Nitrophenol	ng/l	0.0500	0.0570	114	60 - 140	454
4-Nitrophenol	ng/l	0.0500	0.0390	78	60 - 140	454
N-Nitroso-Di-n-Propylamine	ng/l	0.0500	0.0430	86	60 - 140	454
N-Nitrosodiphenylamine	ng/l	0.0500	0.0530	106	60 - 140	454
Pentachlorophenol	ng/l	0.0500	0.0390	78	60 - 140	454
Phenanthrene	ng/l	0.0500	0.0520	104	60 - 140	454
Phenol	ng/l	0.0500	0.0530	106	60 - 140	454
Pyrene	ng/l	0.0500	0.0510	102	60 - 140	454
Bis(2-ethylhexyl)phthalate	ng/l	0.0500	0.0680	136	60 - 140	454
1,2,4-Trichlorobenzene	ng/l	0.0500	0.0420	84	60 - 140	454
2,4,5-Trichlorophenol	ng/l	0.0500	0.0380	76	60 - 140	454
2,4,6-Trichlorophenol	ng/l	0.0500	0.0390	78	60 - 140	454
Acetone	ng/l	0.0500	0.0542	108	70 - 130	9936
Benzene	ng/l	0.0500	0.0532	106	70 - 130	9936
Bromobenzene	ng/l	0.0500	0.0504	101	70 - 130	9936
Bromochloromethane	ng/l	0.0500	0.0606	121	70 - 130	9936
Bromoform	ng/l	0.0500	0.0547	109	70 - 130	9936
Bromomethane	ng/l	0.0500	0.0574	115	70 - 130	9936
2-Butanone	ng/l	0.0500	0.0607	121	70 - 130	9936
n-Butylbenzene	ng/l	0.0500	0.0514	103	70 - 130	9936
sec-Butylbenzene	ng/l	0.0500	0.0470	94	70 - 130	9936
t-Butylbenzene	ng/l	0.0500	0.0529	106	70 - 130	9936
Carbon disulfide	ng/l	0.0500	0.0580	116	70 - 130	9936
Carbon tetrachloride	ng/l	0.05000	0.05590	112	70 - 130	9936
Chlorobenzene	ng/l	0.0500	0.0481	96	70 - 130	9936
Chloroethane	ng/l	0.0500	0.0572	114	70 - 130	9936
2-Chloroethylvinylether	ng/l	0.0500	0.0516	103	70 - 130	9936
Chloroform	ng/l	0.0500	0.0592	118	70 - 130	9936
Chloromethane	ng/l	0.0500	0.0619	124	70 - 130	9936
2-Chlorotoluene	ng/l	0.0500	0.0520	104	70 - 130	9936
4-Chlorotoluene	ng/l	0.0500	0.0524	105	70 - 130	9936
1,2-Dibromo-3-chloropropane	ng/l	0.0500	0.0632	126	70 - 130	9936
Dibromochloromethane	ng/l	0.0500	0.0496	99	70 - 130	9936
1,2-Dibromoethane	ng/l	0.0500	0.0436	87	70 - 130	9936
Dibromomethane	ng/l	0.0500	0.0571	114	70 - 130	9936
1,2-Dichlorobenzene	ng/l	0.0500	0.0505	101	70 - 130	9936
1,3-Dichlorobenzene	ng/l	0.0500	0.0508	102	70 - 130	9936
1,4-Dichlorobenzene	ng/l	0.0500	0.0455	91	70 - 130	9936
Dichlorodifluoromethane	ng/l	0.0500	0.0549	110	70 - 130	9936
1,1-Dichloroethane	ng/l	0.0500	0.0562	112	70 - 130	9936
1,2-Dichloroethane	ng/l	0.0500	0.0563	113	70 - 130	9936
1,1-Dichloroethene	ng/l	0.0500	0.0542	108	70 - 130	9936
cis-1,2-Dichloroethene	ng/l	0.0500	0.0551	110	70 - 130	9936
trans-1,2-Dichloroethene	ng/l	0.0500	0.0555	111	70 - 130	9936



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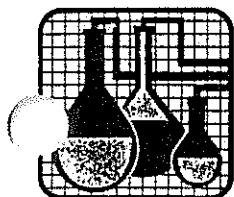
PROJECT QUALITY CONTROL DATA

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	R.C. Batch
1,2-Dichloropropane	ng/l	0.0500	0.0513	103	70 - 130	9936
1,3-Dichloropropane	ng/l	0.0500	0.0535	107	70 - 130	9936
2,2-Dichloropropane	ng/l	0.0500	0.0525	105	70 - 130	9936
1,1-Dichloropropene	ng/l	0.0500	0.0587	117	70 - 130	9936
cis-1,3-Dichloropropene	ng/l	0.0500	0.0530	106	70 - 130	9936
trans-1,3-Dichloropropene	ng/l	0.0500	0.0530	106	70 - 130	9936
Ethylbenzene	ng/l	0.0500	0.0489	98	70 - 130	9936
Hexachlorobutadiene	ng/l	0.0500	0.0558	112	70 - 130	9936
2-Hexanone	ng/l	0.0500	0.0465	93	70 - 130	9936
Isopropylbenzene	ng/l	0.0500	0.0517	103	70 - 130	9936
4-Isopropyltoluene	ng/l	0.0500	0.0494	99	70 - 130	9936
4-Methyl-2-pentanone	ng/l	0.0500	0.0409	82	70 - 130	9936
Methylene chloride	ng/l	0.0500	0.0574	115	70 - 130	9936
Naphthalene	ng/l	0.0500	0.0502	100	70 - 130	9936
n-Propylbenzene	ng/l	0.0500	0.0530	106	70 - 130	9936
Styrene	ng/l	0.0500	0.0462	92	70 - 130	9936
1,1,1,2-Tetrachloroethane	ng/l	0.0500	0.0482	96	70 - 130	9936
1,1,2,2-Tetrachloroethane	ng/l	0.0500	0.0514	103	70 - 130	9936
Tetrachloroethene	ng/l	0.0500	0.0471	94	70 - 130	9936
Toluene	ng/l	0.0500	0.0512	102	70 - 130	9936
1,2,3-Trichlorobenzene	ng/l	0.0500	0.0443	89	70 - 130	9936
1,2,4-Trichlorobenzene	ng/l	0.0500	0.0468	94	70 - 130	9936
1,1,1-Trichloroethane	ng/l	0.0500	0.0588	118	70 - 130	9936
1,1,2-Trichloroethane	ng/l	0.0500	0.0534	107	70 - 130	9936
Trichloroethene	ng/l	0.0500	0.0559	112	70 - 130	9936
1,2,3-Trichloropropane	ng/l	0.0500	0.0526	105	70 - 130	9936
1,2,4-Trimethylbenzene	ng/l	0.0500	0.0491	98	70 - 130	9936
1,3,5-Trimethylbenzene	ng/l	0.0500	0.0514	103	70 - 130	9936
Vinyl chloride	ng/l	0.0500	0.0573	115	70 - 130	9936
Xylenes	ng/l	0.1500	0.1500	100	70 - 130	9936
Bromodichloromethane	ng/l	0.0500	0.0547	109	70 - 130	9936
Trichlorofluoromethane	ng/l	0.0500	0.0571	114	70 - 130	9936

Blank Data

Analyte	Blank Value	Units	R.C. Batch
Acenaphthene	< 0.0100	ng/l	454
Acenaphthylene	< 0.0100	ng/l	454
Anthracene	< 0.0100	ng/l	454
Benzo(a)anthracene	< 0.0100	ng/l	454
Benzo(a)pyrene	< 0.0100	ng/l	454
Benzo(b)fluoranthene	< 0.0100	ng/l	454
Benzo(g,h,i)perylene	< 0.0100	ng/l	454
Benzo(k)fluoranthene	< 0.0100	ng/l	454
4-Bromophenyl-phenylether	< 0.0100	ng/l	454



SPECIALIZED ASSAYS, INC.

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

PROJECT QUALITY CONTROL DATA

Blank Data

Analyte	Blank Value	Units	Q.C. Batch
Butylbenzylphthalate	< 0.0100	ng/l	454
Carbazole	< 0.0100	ng/l	454
4-Chloro-3-methylphenol	< 0.0100	ng/l	454
4-Chloroaniline	< 0.0100	ng/l	454
Bis(2-chloroethoxy)methane	< 0.0100	ng/l	454
Bis(2-chloroethyl)ether	< 0.0100	ng/l	454
Bis(2-chloroisopropyl)ether	< 0.0100	ng/l	454
2-Chloronaphthalene	< 0.0100	ng/l	454
2-Chlorophenol	< 0.0100	ng/l	454
4-Chlorophenyl-phenylether	< 0.0100	ng/l	454
Chrysene	< 0.0100	ng/l	454
Dibenzofuran	< 0.0100	ng/l	454
Dibenz(a,h)anthracene	< 0.0100	ng/l	454
1,2-Dichlorobenzene	< 0.0100	ng/l	454
1,3-Dichlorobenzene	< 0.0100	ng/l	454
1,4-Dichlorobenzene	< 0.0100	ng/l	454
2,3'-Dichlorobenzidine	< 0.0200	ng/l	454
2,4-Dichlorophenol	< 0.0100	ng/l	454
Diethylphthalate	< 0.0100	ng/l	454
2,4-Dimethylphenol	< 0.0100	ng/l	454
Dimethylphthalate	< 0.0100	ng/l	454
Di-n-Butylphthalate	< 0.0100	ng/l	454
4,6-Dinitro-2-methylphenol	< 0.0250	ng/l	454
2,4-Dinitrophenol	< 0.0250	ng/l	454
2,4-dinitrotoluene	< 0.0100	ng/l	454
2,6-Dinitrotoluene	< 0.0100	ng/l	454
Di-n-octylphthalate	< 0.0100	ng/l	454
Fluoranthene	< 0.0100	ng/l	454
Fluorene	< 0.0100	ng/l	454
Hexachlorobenzene	< 0.0100	ng/l	454
Hexachlorobutadiene	< 0.0100	ng/l	454
Hexachlorocyclopentadiene	< 0.0100	ng/l	454
Hexachloroethane	< 0.0100	ng/l	454
Indeno(1,2,3-cd)pyrene	< 0.0100	ng/l	454
Isophorone	< 0.0100	ng/l	454
2-Methylnaphthalene	< 0.0100	ng/l	454
2-Methylphenol	< 0.0100	ng/l	454
3 and 4-Methylphenol	< 0.0100	ng/l	454
Naphthalene	< 0.0100	ng/l	454
2-Nitroaniline	< 0.0250	ng/l	454
3-Nitroaniline	< 0.0250	ng/l	454
4-Nitroaniline	< 0.0250	ng/l	454
Nitrobenzene	< 0.0100	ng/l	454
2-Nitrophenol	< 0.0100	ng/l	454
4-Nitrophenol	< 0.0250	ng/l	454
N-Nitroso-Di-n-Propylamine	< 0.0100	ng/l	454



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Phone 1-615-726-0177

PROJECT QUALITY CONTROL DATA

Blank Data

Analyte	Blank Value	Units	R.C. Katch
N-Nitrosodiphenylamine	< 0.0100	ng/l	454
Pentachlorophenol	< 0.0250	ng/l	454
Phenanthrene	< 0.0100	ng/l	454
Phenol	< 0.0100	ng/l	454
Pyrene	< 0.0100	ng/l	454
Bis(2-ethylhexyl)phthalate	< 0.0100	ng/l	454
1,2,4-Trichlorobenzene	< 0.0100	ng/l	454
2,4,5-Trichlorophenol	< 0.0250	ng/l	454
2,4,6-Trichlorophenol	< 0.0100	ng/l	454
Acetone	< 0.0100	ng/l	9936
Benzene	< 0.0020	ng/l	9936
Bromobenzene	< 0.0020	ng/l	9936
Bromochloromethane	< 0.0020	ng/l	9936
Bromoform	< 0.0020	ng/l	9936
Bromomethane	< 0.0020	ng/l	9936
2-Butanone	< 0.0100	ng/l	9936
n-Butylbenzene	< 0.0020	ng/l	9936
sec-Butylbenzene	< 0.0020	ng/l	9936
t-Butylbenzene	< 0.0020	ng/l	9936
Carbon disulfide	< 0.0020	ng/l	9936
Carbon tetrachloride	< 0.00200	ng/l	9936
Chlorobenzene	< 0.0020	ng/l	9936
Chloroethane	< 0.0020	ng/l	9936
2-Chloroethylvinylether	< 0.0050	ng/l	9936
Chloroform	< 0.0020	ng/l	9936
Chloromethane	< 0.0020	ng/l	9936
2-Chlorotoluene	< 0.0020	ng/l	9936
4-Chlorotoluene	< 0.0020	ng/l	9936
1,2-Dibromo-3-chloropropane	< 0.0100	ng/l	9936
Dibromochloromethane	< 0.0020	ng/l	9936
1,2-Dibromoethane	< 0.0020	ng/l	9936
Dibromomethane	< 0.0020	ng/l	9936
1,2-Dichlorobenzene	< 0.0020	ng/l	9936
1,3-Dichlorobenzene	< 0.0020	ng/l	9936
1,4-Dichlorobenzene	< 0.0020	ng/l	9936
Dichlorodifluoromethane	< 0.0020	ng/l	9936
1,1-Dichloroethane	< 0.0020	ng/l	9936
1,2-Dichloroethane	< 0.0020	ng/l	9936
1,1-Dichloroethene	< 0.0020	ng/l	9936
cis-1,2-Dichloroethene	< 0.0020	ng/l	9936
trans-1,2-Dichloroethene	< 0.0020	ng/l	9936
1,2-Dichloropropane	< 0.0020	ng/l	9936
1,3-Dichloropropane	< 0.0020	ng/l	9936
2,2-Dichloropropane	< 0.0020	ng/l	9936
1,1-Dichloropropene	< 0.0020	ng/l	9936
cis-1,3-Dichloropropene	< 0.0020	ng/l	9936



SPECIALIZED ASSAYS, INC.

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PROJECT QUALITY CONTROL DATA

Blank Data

Analyte	Blank Value	Units	R.C. Batch
trans-1,3-Dichloropropene	< 0.0020	ng/l	9936
Ethylbenzene	< 0.0020	ng/l	9936
Hexachlorobutadiene	< 0.0020	ng/l	9936
2-Hexanone	< 0.0100	ng/l	9936
Isopropylbenzene	< 0.0020	ng/l	9936
4-Isopropyltoluene	< 0.0020	ng/l	9936
4-Methyl-2-pentanone	< 0.0100	ng/l	9936
Methylene chloride	< 0.0020	ng/l	9936
Naphthalene	< 0.0020	ng/l	9936
n-Propylbenzene	< 0.0020	ng/l	9936
Styrene	< 0.0020	ng/l	9936
1,1,1,2-Tetrachloroethane	< 0.0020	ng/l	9936
1,1,2,2-Tetrachloroethane	< 0.0020	ng/l	9936
Tetrachloroethene	< 0.0020	ng/l	9936
Toluene	< 0.0020	ng/l	9936
1,2,3-Trichlorobenzene	< 0.0020	ng/l	9936
1,2,4-Trichlorobenzene	< 0.0020	ng/l	9936
1,1,1-Trichloroethane	< 0.0020	ng/l	9936
1,1,2-Trichloroethane	< 0.0020	ng/l	9936
Trichloroethene	< 0.0020	ng/l	9936
1,2,3-Trichloropropane	< 0.0020	ng/l	9936
1,2,4-Trinethylbenzene	< 0.0020	ng/l	9936
1,3,5-Trinethylbenzene	< 0.0020	ng/l	9936
Vinyl chloride	< 0.0020	ng/l	9936
Xylenes	< 0.0020	ng/l	9936
Bromodichloromethane	< 0.0020	ng/l	9936
Trichlorofluoromethane	< 0.0020	ng/l	9936

[illegible]

TestAmerica Incorporated

PURCHASE ORDER FOR INTERLAB ANALYSIS

Order # 904858 Account # 5859
 Division NORUSS Receiving Division SA
Mel Accepted By Russell Morgan
 Act # (s) USACE Sending Date 4/27/99

Effective Date 4-28 4-29 Holding Time See COC QC Deliverables See COC

Tests Required _____
 Reporting Limit(s) _____

Additional Comments and Specific Requests (Example: Analytes, Client Specific QC)

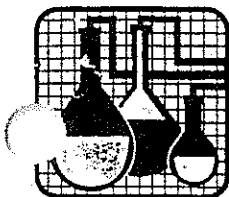
Copy or original TestAmerica Incorporated COC(s). Use shaded lab use areas to designate lab being sent to and number of containers sent. Ensure that methods are designated. Reference PO# of this form on original COC(s).
 Shaded COC to relinquish and receive samples. Return original signature copy with final report. If samples are sent at "original lab" prior to subbing, a copy of log-in summary may be attached.

Sample Based on: _____ Price Charged to Client _____ List Price

	Matrix	# of Samples	Price per Sample	Inter-Lab Discount	Inter-Lab Revenue
60	Soil	1	124.60		99.68
8.1	Soil	1	45.68		36.54

Inter-Lab Revenue 136.22
 Rush Charge 55% 68.11
 QC Charge _____
TOTAL INTER-LAB REVENUE 204.34

Relinquished By: <i>[Signature]</i>	Date: <i>4/27/1958</i>	Time: <i>11:50</i>	Received By: <i>[Signature]</i>	Date: <i>4/27</i>	Time: <i>14:50</i>	Lab Use Only: <i>904858</i>
Relinquished By: <i>[Signature]</i>	Date: <i>4/27/1958</i>	Time: <i>11:50</i>	Received By: <i>[Signature]</i>	Date: <i>4/27</i>	Time: <i>14:50</i>	
Relinquished By: <i>[Signature]</i>	Date: <i>4/27/1958</i>	Time: <i>11:50</i>	Received By: <i>[Signature]</i>	Date: <i>4/27</i>	Time: <i>14:50</i>	
Relinquished By: <i>[Signature]</i>	Date: <i>4/27/1958</i>	Time: <i>11:50</i>	Received By: <i>[Signature]</i>	Date: <i>4/27</i>	Time: <i>14:50</i>	



SPECIALIZED ASSAYS, INC.

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

ANALYTICAL REPORT

TESTAMERICA/HYDROLOGIC, INC. 5859

1412 OAK BROOK DR., SUITE 105
NORCROSS, GA 30093

Project: UST93-BLDG 1330
Project Name: USACE-SAVANNAH
Sampler: FIFE

Lab Number: 99-A59770

Sample ID: SB1-4-99

Sample Type: Soil

Site ID:

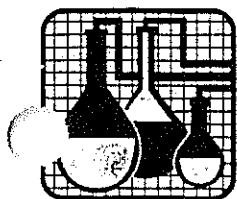
Date Collected: 4/26/99

Time Collected: 12:10

Date Received: 4/28/99

Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Petroleum Hydrocarbons	58.4	ng/kg	10.0	1.0	1	4/29/99	15:56	Fitzwater	418.1M	6863
VOLATILE ORGANICS										
Acetone	ND	ng/kg	0.0106	0.0100	1	4/28/99	19:13	S. Wani	8260B	6657
Benzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Bromobenzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Bromochloromethane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Bromoform	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Bromomethane	ND	ng/kg	0.0021	0.0021	1	4/28/99	19:13	S. Wani	8260B	6657
2-Butanone	ND	ng/kg	0.0106	0.0100	1	4/28/99	19:13	S. Wani	8260B	6657
n-Butylbenzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
sec-Butylbenzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
t-Butylbenzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Carbon disulfide	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Carbon tetrachloride	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Chlorobenzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Chloroethane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
2-Chloroethylvinylether	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Chloroform	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Chloromethane	ND	ng/kg	0.0021	0.0021	1	4/28/99	19:13	S. Wani	8260B	6657
2-Chlorotoluene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
4-Chlorotoluene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,2-Dibromo-3-chloropropane	ND	ng/kg	0.0106	0.0100	1	4/28/99	19:13	S. Wani	8260B	6657
Dibromochloromethane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,2-Dibromoethane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Dibromomethane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,2-Dichlorobenzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,3-Dichlorobenzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,4-Dichlorobenzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Dichlorodifluoromethane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,1-Dichloroethane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,2-Dichloroethane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,1-Dichloroethene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
cis-1,2-Dichloroethene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
trans-1,2-Dichloroethene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657



SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
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Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A59770

Sample ID: SB1-4-99

Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloropropane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,3-Dichloropropane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
2,2-Dichloropropane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,1-Dichloropropene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
cis-1,3-Dichloropropene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
trans-1,3-Dichloropropene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Ethylbenzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Hexachlorobutadiene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
2-Hexanone	ND	ng/kg	0.0106	0.0100	1	4/28/99	19:13	S. Wani	8260B	6657
Isopropylbenzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
4-Isopropyltoluene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
4-Methyl-2-pentanone	ND	ng/kg	0.0106	0.0100	1	4/28/99	19:13	S. Wani	8260B	6657
Methylene chloride	ND	ng/kg	0.0106	0.0100	1	4/28/99	19:13	S. Wani	8260B	6657
Naphthalene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
n-Propylbenzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Styrene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,1,1,2-Tetrachloroethane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,1,2,2-Tetrachloroethane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Tetrachloroethene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Toluene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,2,3-Trichlorobenzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,2,4-Trichlorobenzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,1,1-Trichloroethane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,1,2-Trichloroethane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Trichloroethene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,2,3-Trichloropropane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,2,4-Trinethylbenzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
1,3,5-Trinethylbenzene	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Vinyl chloride	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Xylenes	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Bromodichloromethane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657
Trichlorofluoromethane	ND	ng/kg	0.0021	0.0020	1	4/28/99	19:13	S. Wani	8260B	6657

GENERAL CHEMISTRY PARAMETERS

% Dry Weight	80.	%		1	4/28/99	10:39	Fitzwater	CLP	6149
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ND = Not detected at the report limit.



SPECIALIZED ASSAYS, INC.

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

ANALYTICAL REPORT

Laboratory Number: 99-A59770
Sample ID: SB1-4-99

Page 3

Sample Extraction Data

Parameter	Net/Vol Extracted	Extract Vol	Date	Analyst	Method
Volatile Organics	4.7 g	5.0 ml	4/26/99	Buckingham	5035

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	91.	48. - 160.
surr-Toluene d8	88.	79. - 119.
surr-4-Bromofluorobenzene	90.	69. - 135.
surr-Dibromofluoromethane	97.	63. - 135.

Report Approved By:

Russell Morgan

Report Date: 4/29/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director
Russell Morgan, Technical Services

Laboratory Certification Number: 387



SPECIALIZED ASSAYS, INC.

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

PROJECT QUALITY CONTROL DATA

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch
Petroleum Hydrocarbons	ng/kg	58.4	734.	667.	101	80. - 136.	6863
Benzene	ng/kg	< 0.0020	0.0462	0.0500	92	62. - 147.	6657
Chlorobenzene	ng/kg	< 0.0020	0.0497	0.0500	99	59. - 141.	6657
1,1-Dichloroethene	ng/kg	< 0.0020	0.0520	0.0500	104	61. - 143.	6657
Toluene	ng/kg	< 0.0020	0.0437	0.0500	87	57. - 156.	6657
Trichloroethene	ng/kg	< 0.0020	0.0485	0.0500	97	60. - 158.	6657

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Petroleum Hydrocarbons	ng/kg	734.	737.	0.41	12.	6863
Benzene	ng/kg	0.0462	0.0482	4.24	20.	6657
Chlorobenzene	ng/kg	0.0497	0.0464	6.87	30.	6657
1,1-Dichloroethene	ng/kg	0.0520	0.0508	2.33	21.	6657
Toluene	ng/kg	0.0437	0.0433	0.92	20.	6657
Trichloroethene	ng/kg	0.0485	0.0496	2.24	22.	6657

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Petroleum Hydrocarbons	ng/kg	667.	654.	98	70 - 130	6863
Acetone	ng/kg	0.0500	0.0428	86	70 - 130	6657
Benzene	ng/kg	0.0500	0.0466	93	70 - 130	6657
Bromobenzene	ng/kg	0.0500	0.0486	97	70 - 130	6657
Bromochloromethane	ng/kg	0.0500	0.0537	107	70 - 130	6657
Bromoform	ng/kg	0.0500	0.0410	82	70 - 130	6657
Bromomethane	ng/kg	0.0500	0.0420	84	70 - 130	6657
2-Butanone	ng/kg	0.0500	0.0438	88	70 - 130	6657
n-Butylbenzene	ng/kg	0.0500	0.0437	87	70 - 130	6657
sec-Butylbenzene	ng/kg	0.0500	0.0467	93	70 - 130	6657
t-Butylbenzene	ng/kg	0.0500	0.0505	101	70 - 130	6657
Carbon disulfide	ng/kg	0.0500	0.0475	95	70 - 130	6657
Carbon tetrachloride	ng/kg	0.0500	0.0463	93	70 - 130	6657
Chlorobenzene	ng/kg	0.0500	0.0514	103	70 - 130	6657
Chloroethane	ng/kg	0.0500	0.0486	97	70 - 130	6657
2-Chloroethylvinylether	ng/kg	0.0500	0.0480	96	70 - 130	6657
Chloroform	ng/kg	0.0500	0.0490	98	70 - 130	6657
Chloromethane	ng/kg	0.0500	0.0458	92	70 - 130	6657
2-Chlorotoluene	ng/kg	0.0500	0.0459	92	70 - 130	6657
4-Chlorotoluene	ng/kg	0.0500	0.0446	89	70 - 130	6657
1,2-Dibromo-3-chloropropane	ng/kg	0.0500	0.0561	112	70 - 130	6657
Dibromochloromethane	ng/kg	0.0500	0.0521	104	70 - 130	6657
1,2-Dibromoethane	ng/kg	0.0500	0.0545	109	70 - 130	6657
Dibromomethane	ng/kg	0.0500	0.0483	97	70 - 130	6657



SPECIALIZED ASSAYS, INC.

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

PROJECT QUALITY CONTROL DATA

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	E.C. Batch
1,2-Dichlorobenzene	ng/kg	0.0500	0.0451	90	70 - 130	6657
1,3-Dichlorobenzene	ng/kg	0.0500	0.0449	90	70 - 130	6657
1,4-Dichlorobenzene	ng/kg	0.0500	0.0420	84	70 - 130	6657
Dichlorodifluoromethane	ng/kg	0.0500	0.0432	86	70 - 130	6657
1,1-Dichloroethane	ng/kg	0.0500	0.0487	97	70 - 130	6657
1,2-Dichloroethane	ng/kg	0.0500	0.0471	94	70 - 130	6657
1,1-Dichloroethene	ng/kg	0.0500	0.0540	108	70 - 130	6657
cis-1,2-Dichloroethene	ng/kg	0.0500	0.0482	96	70 - 130	6657
trans-1,2-Dichloroethene	ng/kg	0.0500	0.0475	95	70 - 130	6657
1,2-Dichloropropane	ng/kg	0.0500	0.0474	95	70 - 130	6657
1,3-Dichloropropane	ng/kg	0.0500	0.0492	98	70 - 130	6657
2,2-Dichloropropane	ng/kg	0.0500	0.0488	98	70 - 130	6657
1,1-Dichloropropene	ng/kg	0.0500	0.0451	90	70 - 130	6657
cis-1,3-Dichloropropene	ng/kg	0.0500	0.0486	97	70 - 130	6657
trans-1,3-Dichloropropene	ng/kg	0.0500	0.0485	97	70 - 130	6657
Ethylbenzene	ng/kg	0.0500	0.0485	97	70 - 130	6657
Hexachlorobutadiene	ng/kg	0.0500	0.0432	86	70 - 130	6657
2-Hexanone	ng/kg	0.0500	0.0487	97	70 - 130	6657
Isopropylbenzene	ng/kg	0.0500	0.0491	98	70 - 130	6657
4-Isopropyltoluene	ng/kg	0.0500	0.0447	89	70 - 130	6657
4-Methyl-2-pentanone	ng/kg	0.0500	0.0624	125	70 - 130	6657
Methylene chloride	ng/kg	0.0500	0.0449	90	70 - 130	6657
Naphthalene	ng/kg	0.0500	0.0548	110	70 - 130	6657
n-Propylbenzene	ng/kg	0.0500	0.0473	95	70 - 130	6657
Styrene	ng/kg	0.0500	0.0515	103	70 - 130	6657
1,1,1,2-Tetrachloroethane	ng/kg	0.0500	0.0553	111	70 - 130	6657
1,1,2,2-Tetrachloroethane	ng/kg	0.0500	0.0525	105	70 - 130	6657
Tetrachloroethene	ng/kg	0.0500	0.0530	106	70 - 130	6657
Toluene	ng/kg	0.0500	0.0447	89	70 - 130	6657
1,2,3-Trichlorobenzene	ng/kg	0.0500	0.0403	81	70 - 130	6657
1,2,4-Trichlorobenzene	ng/kg	0.0500	0.0360	72	70 - 130	6657
1,1,1-Trichloroethane	ng/kg	0.0500	0.0489	98	70 - 130	6657
1,1,2-Trichloroethane	ng/kg	0.0500	0.0491	98	70 - 130	6657
Trichloroethene	ng/kg	0.0500	0.0502	100	70 - 130	6657
1,2,3-Trichloropropane	ng/kg	0.0500	0.0525	105	70 - 130	6657
1,2,4-Trinethylbenzene	ng/kg	0.0500	0.0444	89	70 - 130	6657
1,3,5-Trinethylbenzene	ng/kg	0.0500	0.0469	94	70 - 130	6657
Vinyl chloride	ng/kg	0.0500	0.0431	86	70 - 130	6657
Xylenes	ng/kg	0.1500	0.1427	95	70 - 130	6657
Bromodichloromethane	ng/kg	0.0500	0.0493	99	70 - 130	6657
Trichlorofluoromethane	ng/kg	0.0500	0.0476	95	70 - 130	6657



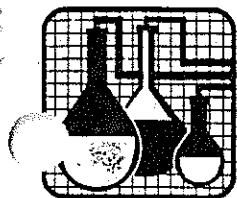
SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
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PROJECT QUALITY CONTROL DATA

Blank Data

Analyte	Blank Value	Units	R.C. Batch
Petroleum Hydrocarbons	< 10.0	ng/kg	6863
Acetone	< 0.0100	ng/kg	6657
Benzene	< 0.0020	ng/kg	6657
Bromobenzene	< 0.0020	ng/kg	6657
Bromochloromethane	< 0.0020	ng/kg	6657
Bromoform	< 0.0020	ng/kg	6657
Bromomethane	< 0.0020	ng/kg	6657
2-Butanone	< 0.0100	ng/kg	6657
n-Butylbenzene	< 0.0020	ng/kg	6657
sec-Butylbenzene	< 0.0020	ng/kg	6657
t-Butylbenzene	< 0.0020	ng/kg	6657
Carbon disulfide	< 0.0020	ng/kg	6657
Carbon tetrachloride	< 0.0020	ng/kg	6657
Chlorobenzene	< 0.0020	ng/kg	6657
Chloroethane	< 0.0020	ng/kg	6657
2-Chloroethylvinylether	< 0.0020	ng/kg	6657
Chloroform	< 0.0020	ng/kg	6657
Chloromethane	< 0.0020	ng/kg	6657
2-Chlorotoluene	< 0.0020	ng/kg	6657
4-Chlorotoluene	< 0.0020	ng/kg	6657
1,2-Dibromo-3-chloropropane	< 0.0100	ng/kg	6657
Dibromochloromethane	< 0.0020	ng/kg	6657
1,2-Dibromoethane	< 0.0020	ng/kg	6657
Dibromomethane	< 0.0020	ng/kg	6657
1,2-Dichlorobenzene	< 0.0020	ng/kg	6657
1,3-Dichlorobenzene	< 0.0020	ng/kg	6657
1,4-Dichlorobenzene	< 0.0020	ng/kg	6657
Dichlorodifluoromethane	< 0.0020	ng/kg	6657
1,1-Dichloroethane	< 0.0020	ng/kg	6657
1,2-Dichloroethane	< 0.0020	ng/kg	6657
1,1-Dichloroethene	< 0.0020	ng/kg	6657
cis-1,2-Dichloroethene	< 0.0020	ng/kg	6657
trans-1,2-Dichloroethene	< 0.0020	ng/kg	6657
1,2-Dichloropropane	< 0.0020	ng/kg	6657
1,3-Dichloropropane	< 0.0020	ng/kg	6657
2,2-Dichloropropane	< 0.0020	ng/kg	6657
1,1-Dichloropropene	< 0.0020	ng/kg	6657
cis-1,3-Dichloropropene	< 0.0020	ng/kg	6657
trans-1,3-Dichloropropene	< 0.0020	ng/kg	6657
Ethylbenzene	< 0.0020	ng/kg	6657
Hexachlorobutadiene	< 0.0020	ng/kg	6657
2-Hexanone	< 0.0100	ng/kg	6657
Isopropylbenzene	< 0.0020	ng/kg	6657
4-Isopropyltoluene	< 0.0020	ng/kg	6657
4-Methyl-2-pentanone	< 0.0100	ng/kg	6657
Methylene chloride	< 0.0020	ng/kg	6657



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PROJECT QUALITY CONTROL DATA

Blank Data

Analyte	Blank Value	Units	Q.C. Batch
Naphthalene	< 0.0020	ng/kg	6657
n-Propylbenzene	< 0.0020	ng/kg	6657
Styrene	< 0.0020	ng/kg	6657
1,1,1,2-Tetrachloroethane	< 0.0020	ng/kg	6657
1,1,2,2-Tetrachloroethane	< 0.0020	ng/kg	6657
Tetrachloroethene	< 0.0020	ng/kg	6657
Toluene	< 0.0020	ng/kg	6657
1,2,3-Trichlorobenzene	< 0.0020	ng/kg	6657
1,2,4-Trichlorobenzene	< 0.0020	ng/kg	6657
1,1,1-Trichloroethane	< 0.0020	ng/kg	6657
1,1,2-Trichloroethane	< 0.0020	ng/kg	6657
Trichloroethene	< 0.0020	ng/kg	6657
1,2,3-Trichloropropane	< 0.0020	ng/kg	6657
1,2,4-Trimethylbenzene	< 0.0020	ng/kg	6657
1,3,5-Trimethylbenzene	< 0.0020	ng/kg	6657
Vinyl chloride	< 0.0020	ng/kg	6657
Xylenes	< 0.0020	ng/kg	6657
Bromodichloromethane	< 0.0020	ng/kg	6657
Trichlorofluoromethane	< 0.0020	ng/kg	6657