

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

## **CLOSURE REPORT**

USED OIL TANK REMOVAL  
BUILDING 241, TANK 242  
FACILITY ID NUMBER: 9-089041  
FT. STEWART, GEORGIA

PREPARED BY:

**ANDERSON COLUMBIA ENVIRONMENTAL, INC.**

OCTOBER 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

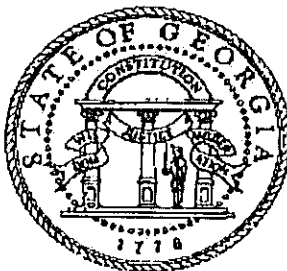
*Anderson Columbia Enviornmental, Inc.*

TAB 1

GEORGIA CLOSURE REPORT  
FORMS

# Georgia Department of Natural Resources

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



## CLOSURE REPORT FORM

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

### 1. Owner of UST System:

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

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

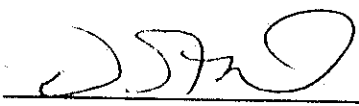
### 2. UST System Site Location:

Facility Name: Ft. Stewart, GA FAC 241  
Street Address: FAC 241  
Ft. Stewart GA 31314-5000  
(city) (state) (zip code)  
Facility ID# 9-089041

### 3. Contract Certification:

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

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

Signature:  Date: 10/9/96

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 \_\_\_ in = \_\_\_ ft
- 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: 25-Jun-96
- Tank Information: 

| <u>Tank #</u> | <u>Tank Size (gallons)</u> | <u>Tank Contents</u> |
|---------------|----------------------------|----------------------|
| 242           | 1000                       | Used 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)

22.33 Tons OR \_\_\_\_\_ yd<sup>3</sup>

☐ 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

SEE TAB 7, 10

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

11. Conclusions or Recommendations: Choose one.

☐ Clean Closure, thus No Further Action is Required.

☐ Soil Excavated within the Limits Specified in Question 7 (GUST-9) and Transported to an EPD Treatment/Disposal Facility, Thus No Further Action is Required.

TAB 4

SITE PHOTOGRAPHS

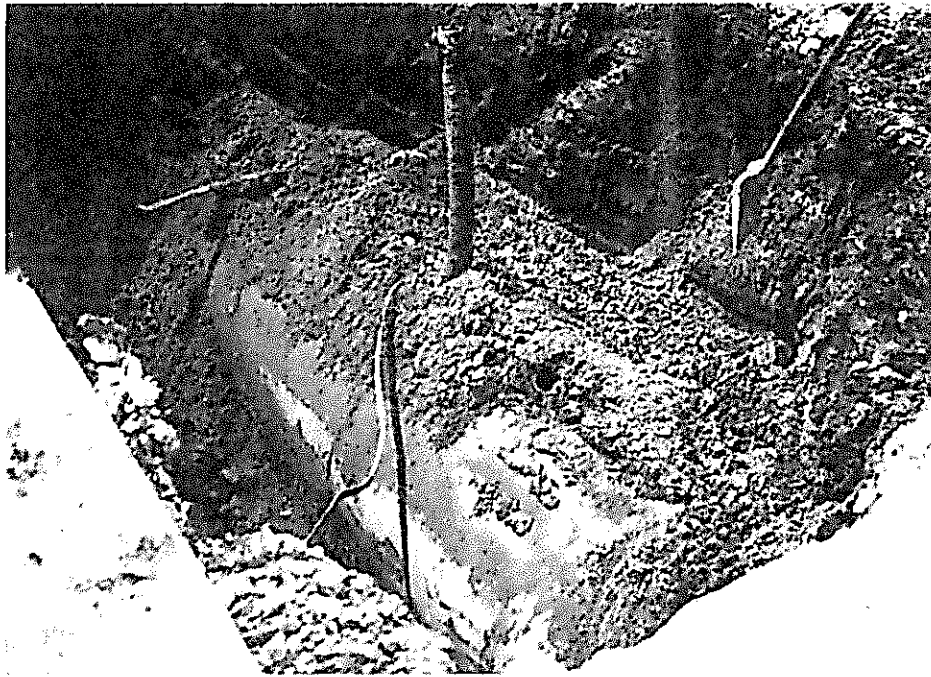


Photo 1. Tank in pit prior to removal.



Photo 2. Tank removal from pit (photographer's finger marks end of tank).

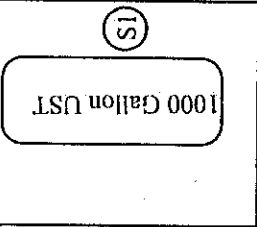


Photo 3. Tank 242 after removal, cutting and cleaning.

**TAB 5**

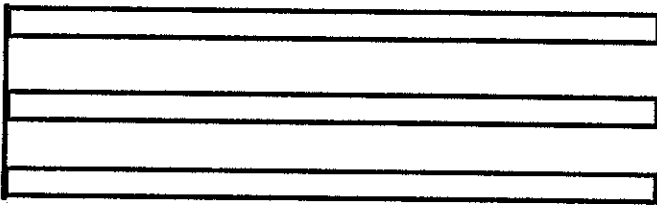
**SITE MAPS**

Concrete Slab  
in Pit

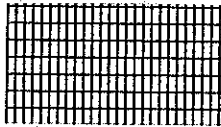


Tank 242

Canopy Building



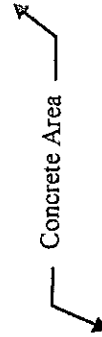
Oil/Water Separator



Canopy Building



Building 241



## LEGEND

(SI) Location of Soil Closure Sample

## ANDERSON COLUMBIA

Environmental, Inc.

P.O. BOX 1386, LAKE CITY, FLORIDA 32056-1386 PHONE: (904) 755-1196 FAX: (904) 758-9050

DR. AJR DR. APP.           

DATE: 10 Oct 96 SCALE: 1" = 10'

Sampling Map - Tank 242

Building 241

Ft. Stewart, Georgia

Delivery Order 101

FIGURE NO.: 1

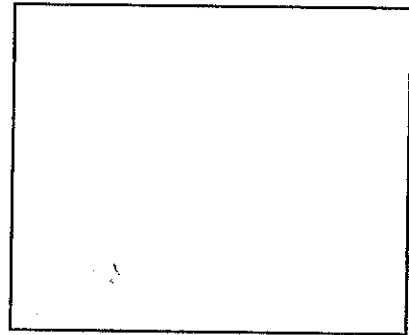
TAB 6

EPA FORM 7530-1  
&  
FIELD ASSESSMENT METHODS

STATE OF GEORGIA  
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

state use only

Part I: Facility Data



FACILITY ID NUMBER: 9-089041

OWNER'S ID: 197

INITIAL DATE RECEIVED: 12/18/92

DATE AMENDED LAST: \_\_\_\_\_

NOTIFICATION TYPE: ☒ New ☐ Amended ☒ Closure

OWNERSHIP OF TANK (S):

NUMBER OF TANK (S): 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 241  
Street Address : FAC 241  
City : FT STEWART State: GEORGIA Zip Code: 31314-5000  
County : LIBERTY Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_  
Phone : \_\_\_\_\_

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

FACILITY TYPE (S):

|                                            |                                                  |                                          |
|--------------------------------------------|--------------------------------------------------|------------------------------------------|
| <input type="checkbox"/> Gas Station       | <input type="checkbox"/> Local Government        | <input type="checkbox"/> Contractor      |
| <input type="checkbox"/> Petroleum Dist    | <input type="checkbox"/> State Government        | <input type="checkbox"/> Truck/Transport |
| <input type="checkbox"/> Air Tax (Airport) | <input type="checkbox"/> Fed Non-Military        | <input type="checkbox"/> Utilities       |
| <input type="checkbox"/> Aircraft Owner    | <input checked="" type="checkbox"/> Fed Military | <input type="checkbox"/> Farm            |
| <input type="checkbox"/> Auto Dealership   | <input type="checkbox"/> Commercial              | <input type="checkbox"/> Residential     |
| <input type="checkbox"/> Railroad          | <input type="checkbox"/> Industrial              | <input type="checkbox"/> Other           |
| <input type="checkbox"/> Hospital          | <input type="checkbox"/> 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)**

- |                                               |                                                       |
|-----------------------------------------------|-------------------------------------------------------|
| <input type="checkbox"/> GUST Trust Fund      | <input type="checkbox"/> Insurance                    |
| <input type="checkbox"/> Surety Bond          | <input type="checkbox"/> Guarantee                    |
| <input type="checkbox"/> Letter of Credit     | <input type="checkbox"/> Trust Fund (other than GUST) |
| <input type="checkbox"/> Risk Retention Group | <input checked="" type="checkbox"/> Other Method      |
| <input type="checkbox"/> Self-insured         | <input type="checkbox"/> 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 Corps of Engineers

Address: HQ 3rd Cont 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.

- |                                               |                                                       |
|-----------------------------------------------|-------------------------------------------------------|
| <input type="checkbox"/> Surety Bond          | <input type="checkbox"/> Insurance                    |
| <input type="checkbox"/> Letter of Credit     | <input type="checkbox"/> Guarantee                    |
| <input type="checkbox"/> Risk Retention Group | <input type="checkbox"/> Trust Fund (other than GUST) |
| <input type="checkbox"/> Self-insured         | <input type="checkbox"/> Other Method                 |

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

**Financial Responsibility Provider (deductible):**

Name: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_

Mechanism Id Number: \_\_\_\_\_

Mechanism Anniversary Date: \_\_\_\_\_

STATE OF GEORGIA  
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

|                                 |                                     |  |  |  |  |
|---------------------------------|-------------------------------------|--|--|--|--|
| <b>FACILITY ID</b>              | 9-089041                            |  |  |  |  |
| <b>TANK ID</b>                  | 242                                 |  |  |  |  |
| <b>Status of Tank</b>           |                                     |  |  |  |  |
| Currently in Use                | <input checked="" type="checkbox"/> |  |  |  |  |
| Temp. Out of Use                | <input type="checkbox"/>            |  |  |  |  |
| Perm. Out of Use                | <input checked="" type="checkbox"/> |  |  |  |  |
| Date of Installation            | 1-Jan-85                            |  |  |  |  |
| Age                             | 11                                  |  |  |  |  |
| Est. Total Capacity             | 1000                                |  |  |  |  |
| <b>MATERIAL OF CONSTRUCTION</b> |                                     |  |  |  |  |
| 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              |                                     |  |  |  |  |
| <b>PIPING MATERIAL</b>          |                                     |  |  |  |  |
| Bare Steel                      |                                     |  |  |  |  |
| Galvanized Steel                | x                                   |  |  |  |  |
| Fiberglass                      |                                     |  |  |  |  |
| Copper                          |                                     |  |  |  |  |
| Cathodically Protected          |                                     |  |  |  |  |
| Double Walled                   |                                     |  |  |  |  |
| Secondary Containment           |                                     |  |  |  |  |
| Unknown                         |                                     |  |  |  |  |
| Other, Explanation              |                                     |  |  |  |  |
| Date Piping Installed           |                                     |  |  |  |  |
| <b>Piping Type</b>              |                                     |  |  |  |  |
| Suction: No Valve               |                                     |  |  |  |  |
| Suction: Valve                  |                                     |  |  |  |  |
| Pressure                        |                                     |  |  |  |  |
| Gravity Fed                     |                                     |  |  |  |  |
| Date Piping Repaired            |                                     |  |  |  |  |
| <b>Substance Stored in Tank</b> |                                     |  |  |  |  |
| 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                     | 9-089041 |         |      |        |      |        |      |        |      |        |  |
| TANK ID                         | 242      |         |      |        |      |        |      |        |      |        |  |
| <b>Substance Stored in Tank</b> |          |         |      |        |      |        |      |        |      |        |  |
| Hazardous Substance             |          |         |      |        |      |        |      |        |      |        |  |
| CERCLA Name                     |          |         |      |        |      |        |      |        |      |        |  |
| CAS Number                      |          |         |      |        |      |        |      |        |      |        |  |
| Mixture                         |          |         |      |        |      |        |      |        |      |        |  |
| Mixture, Specification          |          |         |      |        |      |        |      |        |      |        |  |
| <b>Out of Use/Chg. Ser.</b>     | Tank     | Piping  | Tank | Piping | Tank | Piping | Tank | Piping | Tank | Piping |  |
| Est. Date Last Used             | 5-29-96  | 5-29-96 |      |        |      |        |      |        |      |        |  |
| Est. Date Closed                | 6-25-96  | 6-25-96 |      |        |      |        |      |        |      |        |  |
| Removed from Ground             | X        | X       |      |        |      |        |      |        |      |        |  |
| Closed in Ground                |          |         |      |        |      |        |      |        |      |        |  |
| Filled with Iner. Mat.          |          |         |      |        |      |        |      |        |      |        |  |
| Change in Service               |          |         |      |        |      |        |      |        |      |        |  |
| Site Assessment Compl.          |          |         |      |        |      |        |      |        |      |        |  |
| Leak Detected                   |          |         |      |        |      |        |      |        |      |        |  |
| <b>Installation</b>             |          |         |      |        |      |        |      |        |      |        |  |
| 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              |          |         |      |        |      |        |      |        |      |        |  |
| <b>Release Detection</b>        | Tank     | Piping  | Tank | Piping | Tank | Piping | Tank | Piping | Tank | Piping |  |
| Tank Tightness Testing          |          |         |      |        |      |        |      |        |      |        |  |
| Inventory Controls              |          |         |      |        |      |        |      |        |      |        |  |
| SIR                             |          |         |      |        |      |        |      |        |      |        |  |
| Automatic Tank Guaging          |          |         |      |        |      |        |      |        |      |        |  |
| Inter. Mon./Double Wall         |          |         |      |        |      |        |      |        |      |        |  |
| Groundwater Monitoring          |          |         |      |        |      |        |      |        |      |        |  |
| Manual Tank Guaging             |          |         |      |        |      |        |      |        |      |        |  |
| Vapor Monitoring                |          |         |      |        |      |        |      |        |      |        |  |
| Inter. Mon./Sec. Cont.          |          |         |      |        |      |        |      |        |      |        |  |
| Auto. Line Leak Detect.         |          |         |      |        |      |        |      |        |      |        |  |
| Line Tightness Testing          |          |         |      |        |      |        |      |        |      |        |  |
| Other Method                    |          |         |      |        |      |        |      |        |      |        |  |
| Other Description               |          |         |      |        |      |        |      |        |      |        |  |
| <b>Spill and Overfill</b>       |          |         |      |        |      |        |      |        |      |        |  |
| Date Overfill Device            |          |         |      |        |      |        |      |        |      |        |  |
| Date Spill Device               |          |         |      |        |      |        |      |        |      |        |  |
| <b>Installer Certification</b>  |          |         |      |        |      |        |      |        |      |        |  |
| Name                            |          |         |      |        |      |        |      |        |      |        |  |
| Position                        |          |         |      |        |      |        |      |        |      |        |  |
| Company                         |          |         |      |        |      |        |      |        |      |        |  |
| 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    | Chief, Environmental Branch |
|        | Owner Name        | Title                       |
|        | _____             | _____                       |
|        | Owner's Signature | 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

Delivery Order #101  
Fort Stewart, Georgia  
Tank Numbers 242  
Building Number 241

| <i>Method</i><br><b>Sample ID</b><br><i>unit</i> | 418.1<br><b>TPH</b><br>ppm | 9071A<br><b>TRPH</b><br>ppm | 9071<br><b>Oil &amp; Grease</b><br>ppm | 8020<br><b>BTEX</b><br>ppb | 8100<br><b>PAH/PNA</b><br>ppb | 8270<br><b>Semi-Volatile Organics</b><br>ppb |
|--------------------------------------------------|----------------------------|-----------------------------|----------------------------------------|----------------------------|-------------------------------|----------------------------------------------|
| 242-T1-S1                                        | 441                        | nt                          | nt                                     | bdl                        | nt                            | bdl                                          |
| bdl= below method detection limits nt=not tested |                            |                             |                                        |                            |                               |                                              |

22.33 tons of petroleum contaminated soil was removed from the Tank 242 site.

The Ft. Stewart area is an area of 'Average or Higher groundwater pollution susceptibility', however the site itself is further than 2 miles from a public water supply and further than 500' from a surface water body as defined by Tables A and B which follow.

Table A

Petroleum Constituents and Soil Threshold Levels<sup>a</sup>

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<br>GROUNDWATER POLLUTION<br>SUSCEPTIBILITY AREA <sup>b</sup><br>(Where public water supplies exist<br>within 2.0 miles and/or non-public<br>supplies exist within 0.5 miles) |                                  | LOWER<br>GROUNDWATER POLLUTION<br>SUSCEPTIBILITY AREA <sup>c</sup><br>(Where public water supplies exist<br>within 1.0 mile and/or non-public<br>supplies exist within 0.25 mile) |                                  |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|                                              | ≤500 feet to<br>withdrawal point                                                                                                                                                               | >500 feet to<br>withdrawal point | ≤500 feet to<br>withdrawal point                                                                                                                                                  | >500 feet to<br>withdrawal point |
| <b>VOLATILE ORGANIC<br/>COMPOUNDS</b>        |                                                                                                                                                                                                |                                  |                                                                                                                                                                                   |                                  |
| Benzene <sup>a</sup>                         | 0.005 mg/kg <sup>d</sup>                                                                                                                                                                       | 0.008 mg/kg                      | 0.005 mg/kg <sup>d</sup>                                                                                                                                                          | 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                     |
| <b>POLYNUCLEAR AROMATIC<br/>HYDROCARBONS</b> |                                                                                                                                                                                                |                                  |                                                                                                                                                                                   |                                  |
| Acenaphthene                                 | N/A <sup>e</sup>                                                                                                                                                                               | N/A <sup>e</sup>                 | N/A <sup>e</sup>                                                                                                                                                                  | N/A <sup>e</sup>                 |
| Anthracene                                   | N/A <sup>e</sup>                                                                                                                                                                               | N/A <sup>e</sup>                 | N/A <sup>e</sup>                                                                                                                                                                  | N/A <sup>e</sup>                 |
| Benz(a)anthracene                            | N/A <sup>e</sup>                                                                                                                                                                               | N/A <sup>e</sup>                 | N/A <sup>e</sup>                                                                                                                                                                  | N/A <sup>e</sup>                 |
| Benzo(a)pyrene                               | 0.660 mg/kg <sup>d</sup>                                                                                                                                                                       | N/A <sup>e</sup>                 | N/A <sup>e</sup>                                                                                                                                                                  | N/A <sup>e</sup>                 |
| Benzo(b)fluoranthene                         | 0.820 mg/kg <sup>d,f</sup>                                                                                                                                                                     | N/A <sup>e</sup>                 | N/A <sup>e</sup>                                                                                                                                                                  | N/A <sup>e</sup>                 |
| Benzo(g,h,i)perylene                         | N/A <sup>e</sup>                                                                                                                                                                               | N/A <sup>e</sup>                 | N/A <sup>e</sup>                                                                                                                                                                  | N/A <sup>e</sup>                 |
| Benzo(k)fluoranthene                         | 1.60 mg/kg <sup>d,f</sup>                                                                                                                                                                      | N/A <sup>e</sup>                 | N/A <sup>e</sup>                                                                                                                                                                  | N/A <sup>e</sup>                 |
| Chrysene                                     | 0.660 mg/kg <sup>d</sup>                                                                                                                                                                       | N/A <sup>e</sup>                 | N/A <sup>e</sup>                                                                                                                                                                  | N/A <sup>e</sup>                 |
| Dibenz(a,h)anthracene                        | 1.50 mg/kg <sup>d,f</sup>                                                                                                                                                                      | N/A <sup>e</sup>                 | N/A <sup>e</sup>                                                                                                                                                                  | N/A <sup>e</sup>                 |
| Fluoranthene                                 | N/A <sup>e</sup>                                                                                                                                                                               | N/A <sup>e</sup>                 | N/A <sup>e</sup>                                                                                                                                                                  | N/A <sup>e</sup>                 |
| Fluorene                                     | N/A <sup>e</sup>                                                                                                                                                                               | N/A <sup>e</sup>                 | N/A <sup>e</sup>                                                                                                                                                                  | N/A <sup>e</sup>                 |
| Indeno(1,2,3-c,d)pyrene                      | 0.660 mg/kg <sup>d</sup>                                                                                                                                                                       | N/A <sup>e</sup>                 | 0.660 mg/kg <sup>d</sup>                                                                                                                                                          | N/A <sup>e</sup>                 |
| Naphthalene                                  | N/A <sup>e</sup>                                                                                                                                                                               | N/A <sup>e</sup>                 | N/A <sup>e</sup>                                                                                                                                                                  | N/A <sup>e</sup>                 |
| Phenanthrene                                 | N/A <sup>e</sup>                                                                                                                                                                               | N/A <sup>e</sup>                 | N/A <sup>e</sup>                                                                                                                                                                  | N/A <sup>e</sup>                 |
| Pyrene                                       | N/A <sup>e</sup>                                                                                                                                                                               | N/A <sup>e</sup>                 | N/A <sup>e</sup>                                                                                                                                                                  | N/A <sup>e</sup>                 |

<sup>a</sup> Based on worst-case assumptions for one-dimensional vadose zone and groundwater contaminant fate and transport models.

<sup>b</sup> Based on an assumed distance of 0.5 feet between contaminated soils and the water table.

<sup>c</sup> Based on an assumed distance of 5.0 feet between contaminated soils and the water table.

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

<sup>e</sup> Not applicable. The health-based threshold level exceeds the expected soil concentration under free product condition.

<sup>f</sup> In order to protect surface waters, the soil threshold level in Table B may supersede that found in Table A.

<sup>g</sup> 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<sup>a</sup> 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<br>GROUNDWATER POLLUTION<br>SUSCEPTIBILITY AREA <sup>b</sup> |                                      | LOWER<br>GROUNDWATER POLLUTION<br>SUSCEPTIBILITY AREA <sup>c</sup> |                                      |
|----------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------|--------------------------------------|
|                                              | ≤500 feet to sur-<br>face water body                                           | >500 feet to sur-<br>face water body | ≤500 feet to sur-<br>face water body                               | >500 feet to sur-<br>face water body |
| <b>VOLATILE ORGANIC<br/>COMPOUNDS</b>        |                                                                                |                                      |                                                                    |                                      |
| Benzene <sup>f</sup>                         | 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                         |
| <b>POLYNUCLEAR AROMATIC<br/>HYDROCARBONS</b> |                                                                                |                                      |                                                                    |                                      |
| Acenaphthene                                 | N/A <sup>e</sup>                                                               | N/A <sup>e</sup>                     | N/A <sup>e</sup>                                                   | N/A <sup>e</sup>                     |
| Anthracene                                   | N/A <sup>e</sup>                                                               | N/A <sup>e</sup>                     | N/A <sup>e</sup>                                                   | N/A <sup>e</sup>                     |
| Benz(a)anthracene                            | 0.660 mg/kg <sup>d</sup>                                                       | N/A <sup>e</sup>                     | N/A <sup>e</sup>                                                   | N/A <sup>e</sup>                     |
| Benzo(a)pyrene                               | 0.660 mg/kg <sup>d</sup>                                                       | N/A <sup>e</sup>                     | N/A <sup>e</sup>                                                   | N/A <sup>e</sup>                     |
| Benzo(b)fluoranthene                         | 0.660 mg/kg <sup>d</sup>                                                       | N/A <sup>e</sup>                     | N/A <sup>e</sup>                                                   | N/A <sup>e</sup>                     |
| Benzo(g,h,i)perylene                         | N/A <sup>e</sup>                                                               | N/A <sup>e</sup>                     | N/A <sup>e</sup>                                                   | N/A <sup>e</sup>                     |
| Benzo(k)fluoranthene                         | 0.660 mg/kg <sup>d</sup>                                                       | N/A <sup>e</sup>                     | N/A <sup>e</sup>                                                   | N/A <sup>e</sup>                     |
| Chrysene                                     | 0.660 mg/kg <sup>d</sup>                                                       | N/A <sup>e</sup>                     | N/A <sup>e</sup>                                                   | N/A <sup>e</sup>                     |
| Dibenz(a,h)anthracene                        | 0.660 mg/kg <sup>d</sup>                                                       | N/A <sup>e</sup>                     | N/A <sup>e</sup>                                                   | N/A <sup>e</sup>                     |
| Fluoranthene                                 | N/A <sup>e</sup>                                                               | N/A <sup>e</sup>                     | N/A <sup>e</sup>                                                   | N/A <sup>e</sup>                     |
| Fluorene                                     | N/A <sup>e</sup>                                                               | N/A <sup>e</sup>                     | N/A <sup>e</sup>                                                   | N/A <sup>e</sup>                     |
| Indeno(1,2,3-c,d)pyrene                      | 0.660 mg/kg <sup>d</sup>                                                       | N/A <sup>e</sup>                     | 0.660 mg/kg <sup>d</sup>                                           | N/A <sup>e</sup>                     |
| Naphthalene                                  | N/A <sup>e</sup>                                                               | N/A <sup>e</sup>                     | N/A <sup>e</sup>                                                   | N/A <sup>e</sup>                     |
| Phenanthrene                                 | N/A <sup>e</sup>                                                               | N/A <sup>e</sup>                     | N/A <sup>e</sup>                                                   | N/A <sup>e</sup>                     |
| Pyrene                                       | N/A <sup>e</sup>                                                               | N/A <sup>e</sup>                     | N/A <sup>e</sup>                                                   | N/A <sup>e</sup>                     |

<sup>a</sup> - based on worst-case assumptions for one-dimensional vadose zone and groundwater contaminant fate and transport models.

<sup>b</sup> - based on an assumed distance of 0.5 feet between contaminated soils and the water table.

<sup>c</sup> - based on an assumed distance of 5.0 feet between contaminated soils and the water table.

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

<sup>e</sup> - Not applicable. The health-based threshold level exceeds the expected soil concentration under free product condition.

<sup>f</sup> - 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.

# ECOSYS

LABORATORY SERVICES

## ANALYTICAL REPORT

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 107811  
P.O. Number  
Date Received 06/21/96  
Time Received 13:10  
Reporting Date 07/05/96

Lab Sample ID AB34959  
Project # 3959  
Project Name FT. STEWART  
Sampling Date/Time 06/19/96 17:05

Client Site # 29329  
Client Sample # 241-T1-GW

| METHOD             | ANALYTE                      | TEST CODE | RESULT    | MDL                | UNITS | Dilution<br>Factor | CAS #    | ANALYST | DATE OF<br>ANALYSIS |
|--------------------|------------------------------|-----------|-----------|--------------------|-------|--------------------|----------|---------|---------------------|
| SEMI (GC/MS) WATER |                              |           |           | Prep Date 06/27/96 |       | Batch 0627960001   |          |         |                     |
| 8270B              | PHENOL                       | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 108-95-2 | BS      | 06/29/96            |
| 8270B              | BIS(2-CHLOROETHYL) ETHER     | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 111-44-4 | BS      | 06/29/96            |
| 8270B              | 2-CHLOROPHENOL               | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 95-57-8  | BS      | 06/29/96            |
| 8270B              | 1,3-DICHLOROBENZENE          | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 541-73-1 | BS      | 06/29/96            |
| 8270B              | 1,4-DICHLOROBENZENE          | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 106-46-7 | BS      | 06/29/96            |
| 8270B              | 1,2-DICHLOROBENZENE          | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 95-50-1  | BS      | 06/29/96            |
| 8270B              | BIS(2-CHLOROISOPROPYL) ETHER | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 108-60-1 | BS      | 06/29/96            |
| 8270B              | 2-METHYLPHENOL               | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 95-48-7  | BS      | 06/29/96            |
| 8270B              | 4-METHYLPHENOL               | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 106-44-5 | BS      | 06/29/96            |
| 8270B              | N-NITROSODI-N-PROPYLAMINE    | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 621-84-7 | BS      | 06/29/96            |
| 8270B              | HEXACHLOROETHANE             | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 67-72-1  | BS      | 06/29/96            |
| 8270B              | NITROBENZENE                 | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 98-95-3  | BS      | 06/29/96            |
| 8270B              | ISOPHORONE                   | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 78-59-1  | BS      | 06/29/96            |
| 8270B              | 2-NITROPHENOL                | \$06113   | Below MDL | 500                | ug/L  | 25.0               | 88-75-5  | BS      | 06/29/96            |
| 8270B              | 2,4-DIMETHYLPHENOL           | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 105-67-9 | BS      | 06/29/96            |
| 8270B              | BIS(2-CHLOROETHOXY)METHANE   | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 111-91-1 | BS      | 06/29/96            |
| 8270B              | 2,4-DICHLOROPHENOL           | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 120-83-2 | BS      | 06/29/96            |
| 8270B              | 1,2,4-TRICHLOROBENZENE       | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 120-82-1 | BS      | 06/29/96            |
| 8270B              | NAPHTHALENE                  | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 91-20-3  | BS      | 06/29/96            |
| 8270B              | 4-CHLOROANILINE              | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 106-47-8 | BS      | 06/29/96            |
| 8270B              | HEXACHLOROBUTADIENE          | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 87-68-3  | BS      | 06/29/96            |
| 8270B              | 4-CHLORO-3-METHYLPHENOL      | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 59-50-7  | BS      | 06/29/96            |
| 8270B              | 2-METHYLNAPHTHALENE          | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 91-57-6  | BS      | 06/29/96            |
| 8270B              | HEXACHLOROCYCLOPENTADIENE    | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 77-47-4  | BS      | 06/29/96            |
| 8270B              | 2,4,6-TRICHLOROPHENOL        | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 88-06-2  | BS      | 06/29/96            |
| 8270B              | 2,4,5-TRICHLOROPHENOL        | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 95-95-4  | BS      | 06/29/96            |
| 8270B              | 2-CHLORONAPHTHALENE          | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 91-58-7  | BS      | 06/29/96            |
| 8270B              | 2-NITROANILINE               | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 88-74-4  | BS      | 06/29/96            |
| 8270B              | DIMETHYL PHTHALATE           | \$06113   | Below MDL | 250                | ug/L  | 25.0               | 131-11-3 | BS      | 06/29/96            |

Lab Sample ID AB34959  
 Project # 3959  
 Project Name FT. STEWART  
 Sampling Date/Time 06/19/96 17:05

Client Site # 29329  
 Client Sample # 241-T1-GW

| METHOD          | ANALYTE                       | TEST CODE | RESULT    | MDL                | UNITS | Dilution Factor | CAS #     | ANALYST | DATE OF ANALYSIS |
|-----------------|-------------------------------|-----------|-----------|--------------------|-------|-----------------|-----------|---------|------------------|
| BTEX (GC) WATER |                               |           |           | Prep Date 06/26/96 |       | Batch 062696B   |           |         |                  |
| 8020A           | XYLENES (TOTAL)               | \$08106   | 25        | 1.0                | ug/L  | 1.0             | 1330-20-7 | DTA     | 06/26/96         |
| 8020A           | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08106   | 104       | %                  | REC   | 1.0             |           | DTA     | 06/26/96         |
| 8020A           | 4-BROMOFLUOROBENZENE (SURR)   | \$08106   | 108       | %                  | REC   | 1.0             |           | DTA     | 06/26/96         |
| 8020A           | CHLOROBENZENE                 | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 108-90-7  | DTA     | 06/26/96         |
| 8020A           | 1,2-DICHLOROBENZENE           | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 95-50-1   | DTA     | 06/26/96         |
| 8020A           | 1,3-DICHLOROBENZENE           | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 541-73-1  | DTA     | 06/26/96         |
| 8020A           | 1,4-DICHLOROBENZENE           | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 106-46-7  | DTA     | 06/26/96         |
| 8020A           | TERT-METHYLBUTYL ETHER        | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 1634-04-4 | DTA     | 06/26/96         |

Lab Sample ID AB34960  
 Project # 3959  
 Project Name FT. STEWART  
 Sampling Date/Time 06/19/96 :

Client Site # 29330  
 Client Sample # TRIP BK-#2

| METHOD          | ANALYTE                       | TEST CODE | RESULT    | MDL                | UNITS | Dilution Factor | CAS #     | ANALYST | DATE OF ANALYSIS |
|-----------------|-------------------------------|-----------|-----------|--------------------|-------|-----------------|-----------|---------|------------------|
| BTEX (GC) WATER |                               |           |           | Prep Date 06/26/96 |       | Batch 062696B   |           |         |                  |
| 8020A           | BENZENE                       | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 71-43-2   | DTA     | 06/26/96         |
| 8020A           | TOLUENE                       | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 108-88-8  | DTA     | 06/26/96         |
| 8020A           | ETHYLBENZENE                  | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 100-41-4  | DTA     | 06/26/96         |
| 8020A           | XYLENES (TOTAL)               | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 1330-20-7 | DTA     | 06/26/96         |
| 8020A           | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08106   | 102       | %                  | REC   | 1.0             |           | DTA     | 06/26/96         |
| 8020A           | 4-BROMOFLUOROBENZENE (SURR)   | \$08106   | 104       | %                  | REC   | 1.0             |           | DTA     | 06/26/96         |
| 8020A           | CHLOROBENZENE                 | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 108-90-7  | DTA     | 06/26/96         |
| 8020A           | 1,2-DICHLOROBENZENE           | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 95-50-1   | DTA     | 06/26/96         |
| 8020A           | 1,3-DICHLOROBENZENE           | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 541-73-1  | DTA     | 06/26/96         |
| 8020A           | 1,4-DICHLOROBENZENE           | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 106-46-7  | DTA     | 06/26/96         |
| 8020A           | TERT-METHYLBUTYL ETHER        | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 1634-04-4 | DTA     | 06/26/96         |

Lab Sample ID AB34961  
 Project # 3959  
 Project Name FT. STEWART  
 Sampling Date/Time 06/20/96 10:00

Client Site # 29331  
 Client Sample # 243-T1-S1

| METHOD            | ANALYTE            | TEST CODE | RESULT    | MDL                | UNITS | Dilution Factor | CAS #    | ANALYST | DATE OF ANALYSIS |
|-------------------|--------------------|-----------|-----------|--------------------|-------|-----------------|----------|---------|------------------|
| PAH/PNA (GC) SOIL |                    |           |           | Prep Date 06/26/96 |       | Batch 06269600  |          |         |                  |
| 8100              | ACENAPHTHENE       | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 83-32-9  | DTA     | 06/26/96         |
| 8100              | ACENAPHTHYLENE     | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 208-98-8 | DTA     | 06/26/96         |
| 8100              | ANTHRACENE         | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 120-12-7 | DTA     | 06/26/96         |
| 8100              | BENZO(A)ANTHRACENE | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 56-55-3  | DTA     | 06/26/96         |

Sample Comment Results are reported on a dry weight basis.

Lab Sample ID AB34959  
 Project # 3959  
 Project Name FT. STEWART  
 Sampling Date/Time 06/19/96 17:05

Client Site # 29329  
 Client Sample # 241-T1-GW

| METHOD             | ANALYTE                     | TEST CODE | RESULT    | MDL                | UNITS | Dilution Factor  | CAS #     | ANALYST | DATE OF ANALYSIS |
|--------------------|-----------------------------|-----------|-----------|--------------------|-------|------------------|-----------|---------|------------------|
| SEMI (GC/MS) WATER |                             |           |           | Prep Date 06/27/96 |       | Batch 0627960001 |           |         |                  |
| 8270B              | ACENAPHTHYLENE              | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 208-96-8  | BS      | 06/29/96         |
| 8270B              | 2,6-DINITROTOLUENE          | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 606-20-2  | BS      | 06/29/96         |
| 8270B              | 3-NITROANILINE              | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 99-09-2   | BS      | 06/29/96         |
| 8270B              | ACENAPHTHENE                | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 83-32-9   | BS      | 06/29/96         |
| 8270B              | 2,4-DINITROPHENOL           | \$06113   | Below MDL | 1250               | ug/L  | 25.0             | 51-28-5   | BS      | 06/29/96         |
| 8270B              | 4-NITROPHENOL               | \$06113   | Below MDL | 1250               | ug/L  | 25.0             | 100-02-7  | BS      | 06/29/96         |
| 8270B              | DIBENZOFURAN                | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 132-64-9  | BS      | 06/29/96         |
| 8270B              | 2,4-DINITROTOLUENE          | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 121-14-2  | BS      | 06/29/96         |
| 8270B              | DIETHYL PHTHALATE           | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 84-68-2   | BS      | 06/29/96         |
| 8270B              | 4-CHLOROPHENYL PHENYL ETHER | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 7005-72-3 | BS      | 06/29/96         |
| 8270B              | FLUORENE                    | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 86-73-7   | BS      | 06/29/96         |
| 8270B              | 4-NITROANILINE              | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 100-01-6  | BS      | 06/29/96         |
| 8270B              | 2-METHYL-4,6-DINITROPHENOL  | \$06113   | Below MDL | 1250               | ug/L  | 25.0             | 534-52-1  | BS      | 06/29/96         |
| 8270B              | N-NITROSODIPHENYLAMINE      | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 86-30-6   | BS      | 06/29/96         |
| 8270B              | 4-BROMOPHENYL PHENYL ETHER  | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 101-55-3  | BS      | 06/29/96         |
| 8270B              | HEXACHLOROBENZENE           | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 118-74-1  | BS      | 06/29/96         |
| 8270B              | PENTACHLOROPHENOL           | \$06113   | Below MDL | 1250               | ug/L  | 25.0             | 87-86-5   | BS      | 06/29/96         |
| 8270B              | PHENANTHRENE                | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 85-01-8   | BS      | 06/29/96         |
| 8270B              | ANTHRACENE                  | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 120-12-7  | BS      | 06/29/96         |
| 8270B              | DI-N-BUTYL PHTHALATE        | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 84-74-2   | BS      | 06/29/96         |
| 8270B              | FLUORANTHENE                | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 206-44-0  | BS      | 06/29/96         |
| 8270B              | PYRENE                      | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 129-00-0  | BS      | 06/29/96         |
| 8270B              | BUTYL BENZYL PHTHALATE      | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 85-68-7   | BS      | 06/29/96         |
| 8270B              | 3,3'-DICHLOOROBENZIDINE     | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 91-94-1   | BS      | 06/29/96         |
| 8270B              | BENZO(A)ANTHRACENE          | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 56-55-3   | BS      | 06/29/96         |
| 8270B              | BIS(2-ETHYLHEXYL) PHTHALATE | \$06113   | Below MDL | 500                | ug/L  | 25.0             | 117-81-7  | BS      | 06/29/96         |
| 8270B              | CHRYSENE                    | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 218-01-9  | BS      | 06/29/96         |
| 8270B              | DI-N-OCTYL PHTHALATE        | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 117-84-0  | BS      | 06/29/96         |
| 8270B              | BENZO(B)FLUORANTHENE        | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 205-99-2  | BS      | 06/29/96         |
| 8270B              | BENZO(K)FLUORANTHENE        | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 207-08-9  | BS      | 06/29/96         |
| 8270B              | BENZO(A)PYRENE              | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 50-32-8   | BS      | 06/29/96         |
| 8270B              | INDENO(1,2,3-CD)PYRENE      | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 193-39-5  | BS      | 06/29/96         |
| 8270B              | DIBENZO(A,H)ANTHRACENE      | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 53-70-3   | BS      | 06/29/96         |
| 8270B              | BENZO(G,H,I)PERYLENE        | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 191-24-2  | BS      | 06/29/96         |
| 8270B              | 2-FLUOROPHENOL (SURR)       | \$06113   | 13        | %                  | REC   | 25.0             |           | BS      | 06/29/96         |
| 8270B              | PHENOL-D5 (SURR)            | \$06113   | 10        | %                  | REC   | 25.0             |           | BS      | 06/29/96         |
| 8270B              | NITROBENZENE-D5 (SURR)      | \$06113   | 53        | %                  | REC   | 25.0             |           | BS      | 06/29/96         |
| 8270B              | 2-FLUOROBIPHENYL (SURR)     | \$06113   | 40        | %                  | REC   | 25.0             |           | BS      | 06/29/96         |
| 8270B              | 2,4,6-TRIBROMOPHENOL (SURR) | \$06113   | 36        | %                  | REC   | 25.0             |           | BS      | 06/29/96         |
| 8270B              | TERPHENYL-D14 (SURR)        | \$06113   | 56        | %                  | REC   | 25.0             |           | BS      | 06/29/96         |
| 8270B              | CARBAZOLE                   | \$06113   | Below MDL | 250                | ug/L  | 25.0             | 85-74-8   | BS      | 06/29/96         |
| (GC) WATER         |                             |           |           | Prep Date 06/26/96 |       | Batch 062696B    |           |         |                  |
| 8020A              | BENZENE                     | \$08106   | Below MDL | 1.0                | ug/L  | 1.0              | 71-43-2   | DTA     | 06/26/96         |
| 8020A              | TOLUENE                     | \$08106   | Below MDL | 1.0                | ug/L  | 1.0              | 108-88-8  | DTA     | 06/26/96         |
| 8020A              | ETHYLBENZENE                | \$08106   | 2.0       | 1.0                | ug/L  | 1.0              | 100-41-4  | DTA     | 06/26/96         |

Lab Sample ID AB34961  
 Project # 3959  
 Project Name FT. STEWART  
 Sampling Date/Time 06/20/96 10:00

Client Site # 29331  
 Client Sample # 243-T1-S1

| METHOD                                                     | ANALYTE                       | TEST CODE | RESULT    | MDL                | UNITS | Dilution Factor | CAS #          | ANALYST | DATE OF ANALYSIS |
|------------------------------------------------------------|-------------------------------|-----------|-----------|--------------------|-------|-----------------|----------------|---------|------------------|
| Sample Comment Results are reported on a dry weight basis. |                               |           |           |                    |       |                 |                |         |                  |
| PAH/PNA (GC) SOIL                                          |                               |           |           | Prep Date 06/26/96 |       |                 | Batch 06269600 |         |                  |
| 8100                                                       | BENZO(A)PYRENE                | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 50-32-8        | DTA     | 06/26/96         |
| 8100                                                       | BENZO(B)FLUORANTHENE          | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 205-99-2       | DTA     | 06/26/96         |
| 8100                                                       | BENZO(G,H,I)PERYLENE          | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 191-24-2       | DTA     | 06/26/96         |
| 8100                                                       | BENZO(K)FLUORANTHENE          | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 207-08-9       | DTA     | 06/26/96         |
| 8100                                                       | CHRYSENE                      | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 218-01-9       | DTA     | 06/26/96         |
| 8100                                                       | DIBENZ(A,H)ANTHRACENE         | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 53-70-3        | DTA     | 06/26/96         |
| 8100                                                       | FLUORANTHENE                  | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 208-44-0       | DTA     | 06/26/96         |
| 8100                                                       | FLUORENE                      | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 86-73-7        | DTA     | 06/26/96         |
| 8100                                                       | INDENO(1,2,3-CD)PYRENE        | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 193-39-5       | DTA     | 06/26/96         |
| 8100                                                       | NAPHTHALENE                   | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 91-20-3        | DTA     | 06/26/96         |
| 8100                                                       | PHENANTHRENE                  | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 85-01-8        | DTA     | 06/26/96         |
| 8100                                                       | PYRENE                        | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 129-00-0       | DTA     | 06/26/96         |
| 8100                                                       | 2-FLUOROBIPHENYL (SURR)       | \$06011   | 55        | %                  | REC   | 30.0            |                | DTA     | 06/26/96         |
| 8100                                                       | 2-METHYLNAPHTHALENE           | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 91-57-6        | DTA     | 06/26/96         |
| 8100                                                       | 1-METHYLNAPHTHALENE           | \$06011   | Below MDL | 1150               | ug/Kg | 30.0            | 90-12-0        | DTA     | 06/26/96         |
| BTX (GC) SOIL                                              |                               |           |           | Prep Date 07/01/96 |       |                 | Batch 06269600 |         |                  |
| 8020A                                                      | BENZENE                       | \$08006   | Below MDL | 1.16               | ug/Kg | 1.0             | 71-43-2        | DTA     | 07/01/96         |
| 8020A                                                      | TOLUENE                       | \$08006   | Below MDL | 1.16               | ug/Kg | 1.0             | 108-88-3       | DTA     | 07/01/96         |
| 8020A                                                      | ETHYLBENZENE                  | \$08006   | Below MDL | 1.16               | ug/Kg | 1.0             | 100-41-4       | DTA     | 07/01/96         |
| 8020A                                                      | XYLENES (TOTAL)               | \$08006   | Below MDL | 1.16               | ug/Kg | 1.0             | 1330-20-7      | DTA     | 07/01/96         |
| 8020A                                                      | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08006   | 92        | %                  | REC   | 1.0             |                | DTA     | 07/01/96         |
| 8020A                                                      | 4-BROMOFLUOROBENZENE (SURR)   | \$08006   | 102       | %                  | REC   | 1.0             |                | DTA     | 07/01/96         |
| 8020A                                                      | CHLOROBENZENE                 | \$08006   | Below MDL | 1.16               | ug/Kg | 1.0             | 108-90-7       | DTA     | 07/01/96         |
| 8020A                                                      | 1,2-DICHLOROBENZENE           | \$08006   | Below MDL | 1.16               | ug/Kg | 1.0             | 95-50-1        | DTA     | 07/01/96         |
| 8020A                                                      | 1,3-DICHLOROBENZENE           | \$08006   | Below MDL | 1.16               | ug/Kg | 1.0             | 541-73-1       | DTA     | 07/01/96         |
| 8020A                                                      | 1,4-DICHLOROBENZENE           | \$08006   | Below MDL | 1.16               | ug/Kg | 1.0             | 106-46-7       | DTA     | 07/01/96         |
| 8020A                                                      | TERT-METHYLBUTYL ETHER        | \$08006   | Below MDL | 1.16               | ug/Kg | 1.0             | 1634-04-4      | DTA     | 07/01/96         |
|                                                            |                               |           |           | Prep Date 06/25/96 |       |                 | Batch 062596   |         |                  |
| 9071                                                       | OIL & GREASE SOIL             | 09009     | 1000      | 5.84               | mg/Kg | 1.0             |                | JK      | 06/25/96         |
|                                                            |                               |           |           | Prep Date 06/26/96 |       |                 | Batch 062696   |         |                  |
| 160.3                                                      | % TOTAL SOLIDS SOIL (N/C)     | 09099     | 85.6      | 0.1                | %     | 1.0             |                | MN      | 06/26/96         |

Lab Sample ID AB34962  
 Project # 3959  
 Project Name FT. STEWART  
 Sampling Date/Time 06/20/96

Client Site # 29332  
 Client Sample # TRIP BK-#3

| METHOD          | ANALYTE                       | TEST CODE | RESULT    | MDL                | UNITS | Dilution Factor | CAS #     | ANALYST | DATE OF ANALYSIS |
|-----------------|-------------------------------|-----------|-----------|--------------------|-------|-----------------|-----------|---------|------------------|
| BTEX (GC) WATER |                               |           |           | Prep Date 06/26/96 |       | Batch 062696B   |           |         |                  |
| 8020A           | BENZENE                       | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 71-43-2   | DTA     | 06/26/96         |
| 8020A           | TOLUENE                       | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 108-88-8  | DTA     | 06/26/96         |
| 8020A           | ETHYLBENZENE                  | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 100-41-4  | DTA     | 06/26/96         |
| 8020A           | XYLENES (TOTAL)               | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 1330-20-7 | DTA     | 06/26/96         |
| 8020A           | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08106   | 103       | %                  | REC   | 1.0             |           | DTA     | 06/26/96         |
| 8020A           | 4-BROMOFLUOROBENZENE (SURR)   | \$08106   | 104       | %                  | REC   | 1.0             |           | DTA     | 06/26/96         |
| 8020A           | CHLOROBENZENE                 | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 108-90-7  | DTA     | 06/26/96         |
| 8020A           | 1,2-DICHLOROBENZENE           | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 95-50-1   | DTA     | 06/26/96         |
| 8020A           | 1,3-DICHLOROBENZENE           | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 541-73-1  | DTA     | 06/26/96         |
| 8020A           | 1,4-DICHLOROBENZENE           | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 106-46-7  | DTA     | 06/26/96         |
| 8020A           | TERT-METHYLBUTYL ETHER        | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 1634-04-4 | DTA     | 06/26/96         |

Lab Sample ID AB34963  
 Project # 3959  
 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 |
|--------------------|------------------------------|-----------|-----------|--------------------|-------|-----------------|----------|---------|------------------|
| SEMI (GC/MS) WATER |                              |           |           | Prep Date 06/24/96 |       | Batch 062496A   |          |         |                  |
| 8270B              | PHENOL                       | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 108-95-2 | BS      | 06/27/96         |
| 8270B              | BIS(2-CHLOROETHYL) ETHER     | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 111-44-4 | BS      | 06/27/96         |
| 8270B              | 2-CHLOROPHENOL               | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 95-57-8  | BS      | 06/27/96         |
| 8270B              | 1,3-DICHLOROBENZENE          | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 541-73-1 | BS      | 06/27/96         |
| 8270B              | 1,4-DICHLOROBENZENE          | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 106-46-7 | BS      | 06/27/96         |
| 8270B              | 1,2-DICHLOROBENZENE          | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 95-50-1  | BS      | 06/27/96         |
| 8270B              | BIS(2-CHLOROISOPROPYL) ETHER | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 108-60-1 | BS      | 06/27/96         |
| 8270B              | 2-METHYLPHENOL               | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 95-48-7  | BS      | 06/27/96         |
| 8270B              | 4-METHYLPHENOL               | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 106-44-5 | BS      | 06/27/96         |
| 8270B              | N-NITROSODI-N-PROPYLAMINE    | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 621-64-7 | BS      | 06/27/96         |
| 8270B              | HEXACHLOROETHANE             | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 67-72-1  | BS      | 06/27/96         |
| 8270B              | NITROBENZENE                 | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 98-95-3  | BS      | 06/27/96         |
| 8270B              | ISOPHORONE                   | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 78-59-1  | BS      | 06/27/96         |
| 8270B              | 2-NITROPHENOL                | \$06113   | Below MDL | 20.0               | ug/L  | 1.0             | 88-75-5  | BS      | 06/27/96         |
| 8270B              | 2,4-DIMETHYLPHENOL           | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 105-67-9 | BS      | 06/27/96         |
| 8270B              | BIS(2-CHLOROETHOXY)METHANE   | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 111-91-1 | BS      | 06/27/96         |
| 8270B              | 2,4-DICHLOROPHENOL           | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 120-83-2 | BS      | 06/27/96         |
| 8270B              | 1,2,4-TRICHLOROBENZENE       | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 120-82-1 | BS      | 06/27/96         |
| 8270B              | NAPHTHALENE                  | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 91-20-3  | BS      | 06/27/96         |
| 8270B              | 4-CHLOROANILINE              | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 106-47-8 | BS      | 06/27/96         |
| 8270B              | 3-HEXACHLOROBTADIENE         | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 87-68-3  | BS      | 06/27/96         |
| 8270B              | 4-CHLORO-3-METHYLPHENOL      | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 59-50-7  | BS      | 06/27/96         |
| 8270B              | 2-METHYLNAPHTHALENE          | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 91-57-6  | BS      | 06/27/96         |
| 8270B              | HEXACHLOROCYCLOPENTADIENE    | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 77-47-4  | BS      | 06/27/96         |

Lab Sample ID AB34963  
 Project # 3959  
 Project Name FT. STEWART  
 Sampling Date/Time / /

Client Site #  
 Client Sample # WATER METHOD BLANK

| ANALYST            | ANALYTE                     | TEST CODE | RESULT    | MDL  | UNITS | Dilution<br>Factor | CAS #         | ANALYST | DATE OF<br>ANALYSIS |
|--------------------|-----------------------------|-----------|-----------|------|-------|--------------------|---------------|---------|---------------------|
| SEMI (GC/MS) WATER |                             |           |           |      |       | Prep Date 06/24/96 | Batch 062496A |         |                     |
| 8270B              | 2,4,6-TRICHLOROPHENOL       | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 88-06-2       | BS      | 06/27/96            |
| 8270B              | 2,4,5-TRICHLOROPHENOL       | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 95-95-4       | BS      | 06/27/96            |
| 8270B              | 2-CHLORONAPHTHALENE         | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 91-58-7       | BS      | 06/27/96            |
| 8270B              | 2-NITROANILINE              | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 88-74-4       | BS      | 06/27/96            |
| 8270B              | DIMETHYL PHTHALATE          | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 131-11-3      | BS      | 06/27/96            |
| 8270B              | ACENAPHTHYLENE              | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 208-98-8      | BS      | 06/27/96            |
| 8270B              | 2,6-DINITROTOLUENE          | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 606-20-2      | BS      | 06/27/96            |
| 8270B              | 3-NITROANILINE              | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 99-09-2       | BS      | 06/27/96            |
| 8270B              | ACENAPHTHENE                | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 83-32-9       | BS      | 06/27/96            |
| 8270B              | 2,4-DINITROPHENOL           | \$06113   | Below MDL | 50.0 | ug/L  | 1.0                | 51-28-5       | BS      | 06/27/96            |
| 8270B              | 4-NITROPHENOL               | \$06113   | Below MDL | 50.0 | ug/L  | 1.0                | 100-02-7      | BS      | 06/27/96            |
| 8270B              | DIBENZOFURAN                | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 132-64-9      | BS      | 06/27/96            |
| 8270B              | 2,4-DINITROTOLUENE          | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 121-14-2      | BS      | 06/27/96            |
| 8270B              | DIETHYL PHTHALATE           | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 84-66-2       | BS      | 06/27/96            |
| 8270B              | 4-CHLOROPHENYL PHENYL ETHER | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 7005-72-3     | BS      | 06/27/96            |
| 8270B              | FLUORENE                    | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 86-73-7       | BS      | 06/27/96            |
| 8270B              | 4-NITROANILINE              | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 100-01-6      | BS      | 06/27/96            |
| 8270B              | 2-METHYL-4,6-DINITROPHENOL  | \$06113   | Below MDL | 50.0 | ug/L  | 1.0                | 534-52-1      | BS      | 06/27/96            |
| 8270B              | N-NITROSODIPHENYLAMINE      | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 86-30-6       | BS      | 06/27/96            |
| 8270B              | 4-BROMOPHENYL PHENYL ETHER  | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 101-55-3      | BS      | 06/27/96            |
| 8270B              | HEXACHLOROBENZENE           | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 118-74-1      | BS      | 06/27/96            |
| 8270B              | PENTACHLOROPHENOL           | \$06113   | Below MDL | 50.0 | ug/L  | 1.0                | 87-86-5       | BS      | 06/27/96            |
| 8270B              | PHENANTHRENE                | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 85-01-8       | BS      | 06/27/96            |
| 8270B              | ANTHRACENE                  | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 120-12-7      | BS      | 06/27/96            |
| 8270B              | DI-N-BUTYL PHTHALATE        | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 84-74-2       | BS      | 06/27/96            |
| 8270B              | FLUORANTHENE                | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 206-44-0      | BS      | 06/27/96            |
| 8270B              | PYRENE                      | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 129-00-0      | BS      | 06/27/96            |
| 8270B              | BUTYL BENZYL PHTHALATE      | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 85-68-7       | BS      | 06/27/96            |
| 8270B              | 3,3'-DICHLOROBENZIDINE      | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 91-94-1       | BS      | 06/27/96            |
| 8270B              | BENZO(A)ANTHRACENE          | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 56-55-3       | BS      | 06/27/96            |
| 8270B              | BIS(2-ETHYLHEXYL) PHTHALATE | \$06113   | Below MDL | 20.0 | ug/L  | 1.0                | 117-81-7      | BS      | 06/27/96            |
| 8270B              | CHRYSENE                    | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 218-01-9      | BS      | 06/27/96            |
| 8270B              | DI-N-OCTYL PHTHALATE        | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 117-84-0      | BS      | 06/27/96            |
| 8270B              | BENZO(B)FLUORANTHENE        | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 205-99-2      | BS      | 06/27/96            |
| 8270B              | BENZO(K)FLUORANTHENE        | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 207-08-9      | BS      | 06/27/96            |
| 8270B              | BENZO(A)PYRENE              | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 50-32-8       | BS      | 06/27/96            |
| 8270B              | INDENO(1,2,3-CD)PYRENE      | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 193-39-5      | BS      | 06/27/96            |
| 8270B              | DIBENZO(A,H)ANTHRACENE      | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 53-70-3       | BS      | 06/27/96            |
| 8270B              | BENZO(G,H,I)PERYLENE        | \$06113   | Below MDL | 10.0 | ug/L  | 1.0                | 191-24-2      | BS      | 06/27/96            |
| 8270B              | 2-FLUOROPHENOL (SURR)       | \$06113   | 32        | %    | REC   | 1.0                |               | BS      | 06/27/96            |
| 8270B              | PHENOL-D5 (SURR)            | \$06113   | 19        | %    | REC   | 1.0                |               | BS      | 06/27/96            |
| 8270B              | NITROBENZENE-D5 (SURR)      | \$06113   | 71        | %    | REC   | 1.0                |               | BS      | 06/27/96            |
| 8270B              | 2-FLUOROBIPHENYL (SURR)     | \$06113   | 69        | %    | REC   | 1.0                |               | BS      | 06/27/96            |
| 8270B              | 2,4,6-TRIBROMOPHENOL (SURR) | \$06113   | 76        | %    | REC   | 1.0                |               | BS      | 06/27/96            |
| 8270B              | TERPHENYL-D14 (SURR)        | \$06113   | 82        | %    | REC   | 1.0                |               | BS      | 06/27/96            |

Lab Sample ID AB34963  
 Project # 3959  
 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 |
|--------------------|-------------------------------|-----------|-----------|--------------------|-------|-----------------|-----------|---------|------------------|
| SEMI (GC/MS) WATER |                               |           |           | Prep Date 06/24/96 |       | Batch 062496A   |           |         |                  |
| 8270B              | CARBAZOLE                     | \$06113   | Below MDL | 10.0               | ug/L  | 1.0             | 88-74-8   | BS      | 06/27/96         |
| BTX (GC) WATER     |                               |           |           | Prep Date 06/26/96 |       | Batch 062696B   |           |         |                  |
| 8020A              | BENZENE                       | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 71-43-2   | DTA     | 06/26/96         |
| 8020A              | TOLUENE                       | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 108-88-8  | DTA     | 06/26/96         |
| 8020A              | ETHYLBENZENE                  | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 100-41-4  | DTA     | 06/26/96         |
| 8020A              | XYLENES (TOTAL)               | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 1330-20-7 | DTA     | 06/26/96         |
| 8020A              | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08106   | 104       | %                  | REC   | 1.0             |           | DTA     | 06/26/96         |
| 8020A              | 4-BROMOFLUOROBENZENE (SURR)   | \$08106   | 95        | %                  | REC   | 1.0             |           | DTA     | 06/26/96         |
| 8020A              | CHLOROBENZENE                 | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 108-90-7  | DTA     | 06/26/96         |
| 8020A              | 1,2-DICHLOROBENZENE           | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 95-50-1   | DTA     | 06/26/96         |
| 8020A              | 1,3-DICHLOROBENZENE           | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 541-73-1  | DTA     | 06/26/96         |
| 8020A              | 1,4-DICHLOROBENZENE           | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 106-46-7  | DTA     | 06/26/96         |
| 8020A              | TERT-METHYLBUTYL ETHER        | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 1634-04-4 | DTA     | 06/26/96         |

Lab Sample ID AB34964  
 Project # 3959  
 Project Name FT. STEWART  
 Sampling Date/Time / / :

Client Site #  
 Client Sample # SOIL METHOD BLANK

| METHOD            | ANALYTE                 | TEST CODE | RESULT    | MDL                | UNITS | Dilution Factor | CAS #    | ANALYST | DATE OF ANALYSIS |
|-------------------|-------------------------|-----------|-----------|--------------------|-------|-----------------|----------|---------|------------------|
| PAH/PNA (GC) SOIL |                         |           |           | Prep Date 06/26/96 |       | Batch 06269600  |          |         |                  |
| 8100              | ACENAPHTHENE            | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 83-32-9  | DTA     | 06/26/96         |
| 8100              | ACENAPHTHYLENE          | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 208-96-8 | DTA     | 06/26/96         |
| 8100              | ANTHRACENE              | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 120-12-7 | DTA     | 06/26/96         |
| 8100              | BENZO(A)ANTHRACENE      | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 56-55-3  | DTA     | 06/26/96         |
| 8100              | BENZO(A)PYRENE          | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 50-32-8  | DTA     | 06/26/96         |
| 8100              | BENZO(B)FLUORANTHENE    | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 205-99-2 | DTA     | 06/26/96         |
| 8100              | BENZO(G,H,I)PERYLENE    | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 191-24-2 | DTA     | 06/26/96         |
| 8100              | BENZO(K)FLUORANTHENE    | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 207-08-9 | DTA     | 06/26/96         |
| 8100              | CHRYSENE                | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 218-01-9 | DTA     | 06/26/96         |
| 8100              | DIBENZ(A,H)ANTHRACENE   | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 53-70-3  | DTA     | 06/26/96         |
| 8100              | FLUORANTHENE            | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 208-44-0 | DTA     | 06/26/96         |
| 8100              | FLUORENE                | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 86-73-7  | DTA     | 06/26/96         |
| 8100              | INDENO(1,2,3-CD)PYRENE  | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 193-39-5 | DTA     | 06/26/96         |
| 8100              | NAPHTHALENE             | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 91-20-3  | DTA     | 06/26/96         |
| 8100              | PHENANTHRENE            | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 85-01-8  | DTA     | 06/26/96         |
| 8100              | PYRENE                  | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 129-00-0 | DTA     | 06/26/96         |
| 8100              | 2-FLUOROBIPHENYL (SURR) | \$06011   | 77        | %                  | REC   | 1.0             |          | DTA     | 06/26/96         |
| 8100              | 2-METHYLNAPHTHALENE     | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 91-57-6  | DTA     | 06/26/96         |
| 8100              | 1-METHYLNAPHTHALENE     | \$06011   | Below MDL | 33.0               | ug/Kg | 1.0             | 90-12-0  | DTA     | 06/26/96         |
| BTX (GC) SOIL     |                         |           |           | Prep Date 07/01/96 |       | Batch 06269600  |          |         |                  |
| 8020A             | BENZENE                 | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0             | 71-43-2  | DTA     | 07/01/96         |

Lab Sample ID AB34964  
 Project # 3959  
 Project Name FT. STEWART  
 Sampling Date/Time / / :

Client Site #  
 Client Sample # SOIL METHOD BLANK

| METHOD         | ANALYTE                       | TEST CODE | RESULT    | MDL                | UNITS | Dilution Factor | CAS #     | ANALYST | DATE OF ANALYSIS |
|----------------|-------------------------------|-----------|-----------|--------------------|-------|-----------------|-----------|---------|------------------|
| BTEX (GC) SOIL |                               |           |           | Prep Date 07/01/96 |       | Batch 06269600  |           |         |                  |
| 8020A          | TOLUENE                       | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0             | 108-88-3  | DTA     | 07/01/96         |
| 8020A          | ETHYLBENZENE                  | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0             | 100-41-4  | DTA     | 07/01/96         |
| 8020A          | XYLENES (TOTAL)               | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0             | 1330-20-7 | DTA     | 07/01/96         |
| 8020A          | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08006   | 88        | %                  | REC   | 1.0             |           | DTA     | 07/01/96         |
| 8020A          | 4-BROMOFLUOROBENZENE (SURR)   | \$08006   | 98        | %                  | REC   | 1.0             |           | DTA     | 07/01/96         |
| 8020A          | CHLOROBENZENE                 | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0             | 108-90-7  | DTA     | 07/01/96         |
| 8020A          | 1,2-DICHLOROBENZENE           | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0             | 95-50-1   | DTA     | 07/01/96         |
| 8020A          | 1,3-DICHLOROBENZENE           | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0             | 541-73-1  | DTA     | 07/01/96         |
| 8020A          | 1,4-DICHLOROBENZENE           | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0             | 106-46-7  | DTA     | 07/01/96         |
| 8020A          | TERT-METHYLBUTYL ETHER        | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0             | 1634-04-4 | DTA     | 07/01/96         |
|                |                               |           |           | Prep Date 06/25/96 |       | Batch 062596    |           |         |                  |
| 9071           | OIL & GREASE SOIL             | 09009     | Below MDL | 5.0                | mg/Kg | 1.0             |           | JK      | 06/25/96         |

Lab Sample ID AB35000  
 Project # 3959  
 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) WATER |                             |           |        | Prep Date 06/24/96 |       | Batch 062496A   |       |         |                  |
| 8270B              | 2-FLUOROPHENOL (SURR)       | \$06113   | 21     | %                  | REC   | 1.0             |       | BS      | 06/27/96         |
| 8270B              | PHENOL-D5 (SURR)            | \$06113   | 13     | %                  | REC   | 1.0             |       | BS      | 06/27/96         |
| 8270B              | NITROBENZENE-D5 (SURR)      | \$06113   | 44     | %                  | REC   | 1.0             |       | BS      | 06/27/96         |
| 8270B              | 2-FLUOROBIPHENYL (SURR)     | \$06113   | 43     | %                  | REC   | 1.0             |       | BS      | 06/27/96         |
| 8270B              | 2,4,6-TRIBROMOPHENOL (SURR) | \$06113   | 64     | %                  | REC   | 1.0             |       | BS      | 06/27/96         |
| 8270B              | TERPHENYL-D14 (SURR)        | \$06113   | 69     | %                  | REC   | 1.0             |       | BS      | 06/27/96         |

Lab Sample ID AB35001  
 Project # 3959  
 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) WATER |                             |           |        | Prep Date 06/24/96 |       | Batch 062496A   |       |         |                  |
| 8270B              | 2-FLUOROPHENOL (SURR)       | \$06113   | 28     | %                  | REC   | 1.0             |       | BS      | 06/27/96         |
| 8270B              | PHENOL-D5 (SURR)            | \$06113   | 19     | %                  | REC   | 1.0             |       | BS      | 06/27/96         |
| 8270B              | NITROBENZENE-D5 (SURR)      | \$06113   | 58     | %                  | REC   | 1.0             |       | BS      | 06/27/96         |
| 8270B              | 2-FLUOROBIPHENYL (SURR)     | \$06113   | 56     | %                  | REC   | 1.0             |       | BS      | 06/27/96         |
| 8270B              | 2,4,6-TRIBROMOPHENOL (SURR) | \$06113   | 73     | %                  | REC   | 1.0             |       | BS      | 06/27/96         |

Lab Sample ID AB35001  
Project # 3959  
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) WATER |                      |           |        | Prep Date 06/24/96 |       |                 | Batch 062496A |         |                  |
| 8270B              | TERPHENYL-D14 (SURR) | \$06113   | 81     | %                  | REC   | 1.0             |               | BS      | 06/27/96         |

Lab Sample ID AB35002  
Project # 3959  
Project Name FT. STEWART  
Sampling Date/Time / /

Client Site #  
Client Sample # LCS

| METHOD             | ANALYTE                     | TEST CODE | RESULT | MDL                | UNITS | Dilution Factor | CAS #         | ANALYST | DATE OF ANALYSIS |
|--------------------|-----------------------------|-----------|--------|--------------------|-------|-----------------|---------------|---------|------------------|
| SEMI (GC/MS) WATER |                             |           |        | Prep Date 06/24/96 |       |                 | Batch 062496A |         |                  |
| 8270B              | 2-FLUOROPHENOL (SURR)       | \$06113   | 36     | %                  | REC   | 1.0             |               | BS      | 06/27/96         |
| 8270B              | PHENOL-D5 (SURR)            | \$06113   | 23     | %                  | REC   | 1.0             |               | BS      | 06/27/96         |
| 8270B              | NITROBENZENE-D5 (SURR)      | \$06113   | 71     | %                  | REC   | 1.0             |               | BS      | 06/27/96         |
| 8270B              | 2-FLUOROBIPHENYL (SURR)     | \$06113   | 70     | %                  | REC   | 1.0             |               | BS      | 06/27/96         |
| 8270B              | 2,4,6-TRIBROMOPHENOL (SURR) | \$06113   | 76     | %                  | REC   | 1.0             |               | BS      | 06/27/96         |
| 8270B              | TERPHENYL-D14 (SURR)        | \$06113   | 80     | %                  | REC   | 1.0             |               | BS      | 06/27/96         |

Lab Sample ID AB35119  
Project # 3959  
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 |
|-------------------|-------------------------|-----------|--------|--------------------|-------|-----------------|----------------|---------|------------------|
| PAH/PNA (GC) SOIL |                         |           |        | Prep Date 06/26/96 |       |                 | Batch 06269600 |         |                  |
| 8100              | 2-FLUOROBIPHENYL (SURR) | \$06011   | 39     | %                  | REC   | 1.0             |                | DTA     | 06/26/96         |

Lab Sample ID AB35120  
Project # 3959  
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 |
|-------------------|-------------------------|-----------|--------|--------------------|-------|-----------------|----------------|---------|------------------|
| PAH/PNA (GC) SOIL |                         |           |        | Prep Date 06/26/96 |       |                 | Batch 06269600 |         |                  |
| 8100              | 2-FLUOROBIPHENYL (SURR) | \$06011   | 47     | %                  | REC   | 1.0             |                | DTA     | 06/26/96         |

Lab Sample ID AB35121  
Project # 3959  
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 |
|-------------------|-------------------------|-----------|--------|-----------|-----------------|-------|----------|------------------|
| PAH/PNA (GC) SOIL |                         |           |        | Prep Date | 06/26/96        | Batch | 06269600 |                  |
| 8100              | 2-FLUOROBIPHENYL (SURR) | \$06011   | 76     | % REC     | 1.0             |       | DTA      | 06/26/96         |

Lab Sample ID AB35129  
Project # 3959  
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) WATER |                               |           |        | Prep Date | 06/26/96        | Batch | 062696B |                  |
| 8020A           | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08106   | 101    | % REC     | 1.0             |       | DTA     | 06/26/96         |
| 8020A           | 4-BROMOFLUOROBENZENE (SURR)   | \$08106   | 96     | % REC     | 1.0             |       | DTA     | 06/26/96         |

Lab Sample ID AB35130  
Project # 3959  
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) WATER |                               |           |        | Prep Date | 06/26/96        | Batch | 062696B |                  |
| 8020A           | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08106   | 108    | % REC     | 1.0             |       | DTA     | 06/26/96         |
| 8020A           | 4-BROMOFLUOROBENZENE (SURR)   | \$08106   | 110    | % REC     | 1.0             |       | DTA     | 06/26/96         |

Lab Sample ID AB35131  
Project # 3959  
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 | 06/26/96        | Batch | 062696B |                  |
| 8020A           | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08106   | 107    | % REC     | 1.0             |       | DTA     | 06/26/96         |
| 8020A           | 4-BROMOFLUOROBENZENE (SURR)   | \$08106   | 106    | % REC     | 1.0             |       | DTA     | 06/26/96         |

Lab Sample ID AB35203  
 Project # 3959  
 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 07/01/96 |                 | Batch 06269600 |         |                  |
| 8020A          | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08006   | 85     | % REC              | 1.0             |                | DTA     | 07/01/96         |
| 8020A          | 4-BROMOFLUOROBENZENE (SURR)   | \$08006   | 99     | % REC              | 1.0             |                | DTA     | 07/01/96         |

Lab Sample ID AB35211  
 Project # 3959  
 Project Name FT. STEWART  
 Sampling Date/Time 07/01/96

Client Site #  
 Client Sample # MS

| METHOD         | ANALYTE                       | TEST CODE | RESULT | MDL UNITS          | Dilution Factor | CAS #         | ANALYST | DATE OF ANALYSIS |
|----------------|-------------------------------|-----------|--------|--------------------|-----------------|---------------|---------|------------------|
| BTEX (GC) SOIL |                               |           |        | Prep Date 07/01/96 |                 | Batch 070196B |         |                  |
| 8020A          | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08006   | 42     | % REC              | 1.0             |               | DTA     | 07/01/96         |
| 8020A          | 4-BROMOFLUOROBENZENE (SURR)   | \$08006   | 46     | % REC              | 1.0             |               | DTA     | 07/01/96         |

Lab Sample ID AB35212  
 Project # 3959  
 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 07/01/96 |                 | Batch 070196B |         |                  |
| 8020A          | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08006   | 36     | % REC              | 1.0             |               | DTA     | 07/01/96         |
| 8020A          | 4-BROMOFLUOROBENZENE (SURR)   | \$08006   | 40     | % REC              | 1.0             |               | DTA     | 07/01/96         |

Lab Sample ID AB35458  
 Project # 3959  
 Project Name FT. STEWART  
 Sampling Date/Time / /

Client Site #  
 Client Sample # METHOD BLANK WATER

| METHOD             | ANALYTE                      | TEST CODE | RESULT    | MDL UNITS          | Dilution Factor | CAS #            | ANALYST | DATE OF ANALYSIS |
|--------------------|------------------------------|-----------|-----------|--------------------|-----------------|------------------|---------|------------------|
| SEMI (GC/MS) WATER |                              |           |           | Prep Date 06/27/96 |                 | Batch 0627960001 |         |                  |
| 8270B              | PHENOL                       | \$06113   | Below MDL | 10.0 ug/L          | 1.0             | 108-95-2         | BS      | 06/29/96         |
| 8270B              | BIS(2-CHLOROETHYL) ETHER     | \$06113   | Below MDL | 10.0 ug/L          | 1.0             | 111-44-4         | BS      | 06/29/96         |
| 8270B              | 2-CHLOROPHENOL               | \$06113   | Below MDL | 10.0 ug/L          | 1.0             | 95-57-8          | BS      | 06/29/96         |
| 8270B              | 1,3-DICHLOROBENZENE          | \$06113   | Below MDL | 10.0 ug/L          | 1.0             | 541-73-1         | BS      | 06/29/96         |
| 8270B              | 1,4-DICHLOROBENZENE          | \$06113   | Below MDL | 10.0 ug/L          | 1.0             | 106-46-7         | BS      | 06/29/96         |
| 8270B              | 1,2-DICHLOROBENZENE          | \$06113   | Below MDL | 10.0 ug/L          | 1.0             | 95-50-1          | BS      | 06/29/96         |
| 8270B              | BIS(2-CHLOROISOPROPYL) ETHER | \$06113   | Below MDL | 10.0 ug/L          | 1.0             | 108-60-1         | BS      | 06/29/96         |

Lab Sample ID AB35458  
 Project # 3959  
 Project Name FT. STEWART  
 Sampling Date/Time / /

Client Site #  
 Client Sample # METHOD BLANK WATER

| METHOD             | ANALYTE                     | TEST CODE | RESULT    | MDL                | UNITS | Dilution<br>Factor | CAS #     | ANALYST | DATE OF<br>ANALYSIS |
|--------------------|-----------------------------|-----------|-----------|--------------------|-------|--------------------|-----------|---------|---------------------|
| SEMI (GC/MS) WATER |                             |           |           | Prep Date 06/27/96 |       | Batch 0627960001   |           |         |                     |
| 8270B              | 2-METHYLPHENOL              | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 95-48-7   | BS      | 06/29/96            |
| 8270B              | 4-METHYLPHENOL              | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 106-44-5  | BS      | 06/29/96            |
| 8270B              | N-NITROSODI-N-PROPYLAMINE   | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 621-64-7  | BS      | 06/29/96            |
| 8270B              | HEXACHLOROETHANE            | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 67-72-1   | BS      | 06/29/96            |
| 8270B              | NITROBENZENE                | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 98-95-3   | BS      | 06/29/96            |
| 8270B              | ISOPHORONE                  | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 78-59-1   | BS      | 06/29/96            |
| 8270B              | 2-NITROPHENOL               | \$06113   | Below MDL | 20.0               | ug/L  | 1.0                | 88-75-5   | BS      | 06/29/96            |
| 8270B              | 2,4-DIMETHYLPHENOL          | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 105-67-9  | BS      | 06/29/96            |
| 8270B              | BIS(2-CHLOROETHOXY)METHANE  | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 111-91-1  | BS      | 06/29/96            |
| 8270B              | 2,4-DICHLOROPHENOL          | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 120-83-2  | BS      | 06/29/96            |
| 8270B              | 1,2,4-TRICHLOROBENZENE      | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 120-82-1  | BS      | 06/29/96            |
| 8270B              | NAPHTHALENE                 | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 91-20-3   | BS      | 06/29/96            |
| 8270B              | 4-CHLOROANILINE             | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 106-47-8  | BS      | 06/29/96            |
| 8270B              | HEXACHLOROBUTADIENE         | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 87-68-3   | BS      | 06/29/96            |
| 8270B              | 4-CHLORO-3-METHYLPHENOL     | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 59-50-7   | BS      | 06/29/96            |
| 8270B              | 2-METHYLNAPHTHALENE         | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 91-57-6   | BS      | 06/29/96            |
| 8270B              | HEXACHLOROCYCLOPENTADIENE   | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 77-47-4   | BS      | 06/29/96            |
| 8270B              | 2,4,6-TRICHLOROPHENOL       | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 88-06-2   | BS      | 06/29/96            |
| 8270B              | 2,4,5-TRICHLOROPHENOL       | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 95-95-4   | BS      | 06/29/96            |
| 8270B              | 2-CHLORONAPHTHALENE         | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 91-58-7   | BS      | 06/29/96            |
| 8270B              | 2-NITROANILINE              | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 88-74-4   | BS      | 06/29/96            |
| 8270B              | DIMETHYL PHTHALATE          | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 131-11-3  | BS      | 06/29/96            |
| 8270B              | ACENAPHTHYLENE              | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 208-96-8  | BS      | 06/29/96            |
| 8270B              | 2,6-DINITROTOLUENE          | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 606-20-2  | BS      | 06/29/96            |
| 8270B              | 3-NITROANILINE              | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 99-09-2   | BS      | 06/29/96            |
| 8270B              | ACENAPHTHENE                | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 83-32-9   | BS      | 06/29/96            |
| 8270B              | 2,4-DINITROPHENOL           | \$06113   | Below MDL | 50.0               | ug/L  | 1.0                | 51-28-5   | BS      | 06/29/96            |
| 8270B              | 4-NITROPHENOL               | \$06113   | Below MDL | 50.0               | ug/L  | 1.0                | 100-02-7  | BS      | 06/29/96            |
| 8270B              | DIBENZOFURAN                | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 132-64-9  | BS      | 06/29/96            |
| 8270B              | 2,4-DINITROTOLUENE          | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 121-14-2  | BS      | 06/29/96            |
| 8270B              | DIETHYL PHTHALATE           | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 84-66-2   | BS      | 06/29/96            |
| 8270B              | 4-CHLOROPHENYL PHENYL ETHER | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 7005-72-3 | BS      | 06/29/96            |
| 8270B              | FLUORENE                    | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 86-73-7   | BS      | 06/29/96            |
| 8270B              | 4-NITROANILINE              | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 100-01-6  | BS      | 06/29/96            |
| 8270B              | 2-METHYL-4,6-DINITROPHENOL  | \$06113   | Below MDL | 50.0               | ug/L  | 1.0                | 534-52-1  | BS      | 06/29/96            |
| 8270B              | N-NITROSODIPHENYLAMINE      | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 86-30-6   | BS      | 06/29/96            |
| 8270B              | 4-BROMOPHENYL PHENYL ETHER  | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 101-55-3  | BS      | 06/29/96            |
| 8270B              | HEXACHLOROBENZENE           | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 118-74-1  | BS      | 06/29/96            |
| 8270B              | PENTACHLOROPHENOL           | \$06113   | Below MDL | 50.0               | ug/L  | 1.0                | 87-86-5   | BS      | 06/29/96            |
| 8270B              | PHENANTHRENE                | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 85-01-8   | BS      | 06/29/96            |
| 8270B              | ANTHRACENE                  | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 120-12-7  | BS      | 06/29/96            |
| 8270B              | DI-N-BUTYL PHTHALATE        | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 84-74-2   | BS      | 06/29/96            |
| 8270B              | FLUORANTHENE                | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 206-44-0  | BS      | 06/29/96            |
| 8270B              | PYRENE                      | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 129-00-0  | BS      | 06/29/96            |
| 8270B              | BUTYL BENZYL PHTHALATE      | \$06113   | Below MDL | 10.0               | ug/L  | 1.0                | 85-68-7   | BS      | 06/29/96            |

Lab Sample ID AB35458  
 Project # 3959  
 Project Name FT. STEWART  
 Sampling Date/Time / /

Client Site #  
 Client Sample # METHOD BLANK WATER

| METHOD             | ANALYTE                     | TEST CODE | RESULT    | MDL                | UNITS | Dilution Factor  | CAS #    | ANALYST | DATE OF ANALYSIS |
|--------------------|-----------------------------|-----------|-----------|--------------------|-------|------------------|----------|---------|------------------|
| SEMI (GC/MS) WATER |                             |           |           | Prep Date 06/27/96 |       | Batch 0627960001 |          |         |                  |
| 8270B              | 3,3'-DICHLOROBENZIDINE      | \$06113   | Below MDL | 10.0               | ug/L  | 1.0              | 91-94-1  | BS      | 06/29/96         |
| 8270B              | BENZO(A)ANTHRACENE          | \$06113   | Below MDL | 10.0               | ug/L  | 1.0              | 56-55-3  | BS      | 06/29/96         |
| 8270B              | BIS(2-ETHYLHEXYL) PHTHALATE | \$06113   | Below MDL | 20.0               | ug/L  | 1.0              | 117-81-7 | BS      | 06/29/96         |
| 8270B              | CHRYSENE                    | \$06113   | Below MDL | 10.0               | ug/L  | 1.0              | 218-01-9 | BS      | 06/29/96         |
| 8270B              | DI-N-OCTYL PHTHALATE        | \$06113   | Below MDL | 10.0               | ug/L  | 1.0              | 117-84-0 | BS      | 06/29/96         |
| 8270B              | BENZO(B)FLUORANTHENE        | \$06113   | Below MDL | 10.0               | ug/L  | 1.0              | 205-99-2 | BS      | 06/29/96         |
| 8270B              | BENZO(K)FLUORANTHENE        | \$06113   | Below MDL | 10.0               | ug/L  | 1.0              | 207-08-9 | BS      | 06/29/96         |
| 8270B              | BENZO(A)PYRENE              | \$06113   | Below MDL | 10.0               | ug/L  | 1.0              | 50-32-8  | BS      | 06/29/96         |
| 8270B              | INDENO(1,2,3-CD)PYRENE      | \$06113   | Below MDL | 10.0               | ug/L  | 1.0              | 193-39-5 | BS      | 06/29/96         |
| 8270B              | DIBENZO(A,H)ANTHRACENE      | \$06113   | Below MDL | 10.0               | ug/L  | 1.0              | 53-70-3  | BS      | 06/29/96         |
| 8270B              | BENZO(G,H,I)PERYLENE        | \$06113   | Below MDL | 10.0               | ug/L  | 1.0              | 191-24-2 | BS      | 06/29/96         |
| 8270B              | 2-FLUOROPHENOL (SURR)       | \$06113   | 32        | %                  | REC   | 1.0              |          | BS      | 06/29/96         |
| 8270B              | PHENOL-D5 (SURR)            | \$06113   | 20        | %                  | REC   | 1.0              |          | BS      | 06/29/96         |
| 8270B              | NITROBENZENE-D5 (SURR)      | \$06113   | 72        | %                  | REC   | 1.0              |          | BS      | 06/29/96         |
| 8270B              | 2-FLUOROBIPHENYL (SURR)     | \$06113   | 68        | %                  | REC   | 1.0              |          | BS      | 06/29/96         |
| 8270B              | 2,4,6-TRIBROMOPHENOL (SURR) | \$06113   | 76        | %                  | REC   | 1.0              |          | BS      | 06/29/96         |
| 8270B              | TERPHENYL-D14 (SURR)        | \$06113   | 85        | %                  | REC   | 1.0              |          | BS      | 06/29/96         |
| 8270B              | CARBAZOLE                   | \$06113   | Below MDL | 10.0               | ug/L  | 1.0              | 86-74-8  | BS      | 06/29/96         |



Certifying Scientist

Organics and Inorganics in Wastewater, Solids, and Wastes

NC-DEHNR 441, SC-DHEC 98013, GA, TN-DOH 02826, UT-DOH E-228, FL-DEP 940134 HRS E87511 (Water) HRS 87485 (Drinking Water), NY-DEH ELAP 11551, WI-DNR 998014380

Radioactive Materials License ISO 9000 EPA ID EPA Reg Waste GA APHIS Fed Lab ID US Army Corps of Engineers Validation  
 GA-DNR 1283-1 A2LA:0594-01 GA-00058 GA-0001011008 S-3966 58-188334

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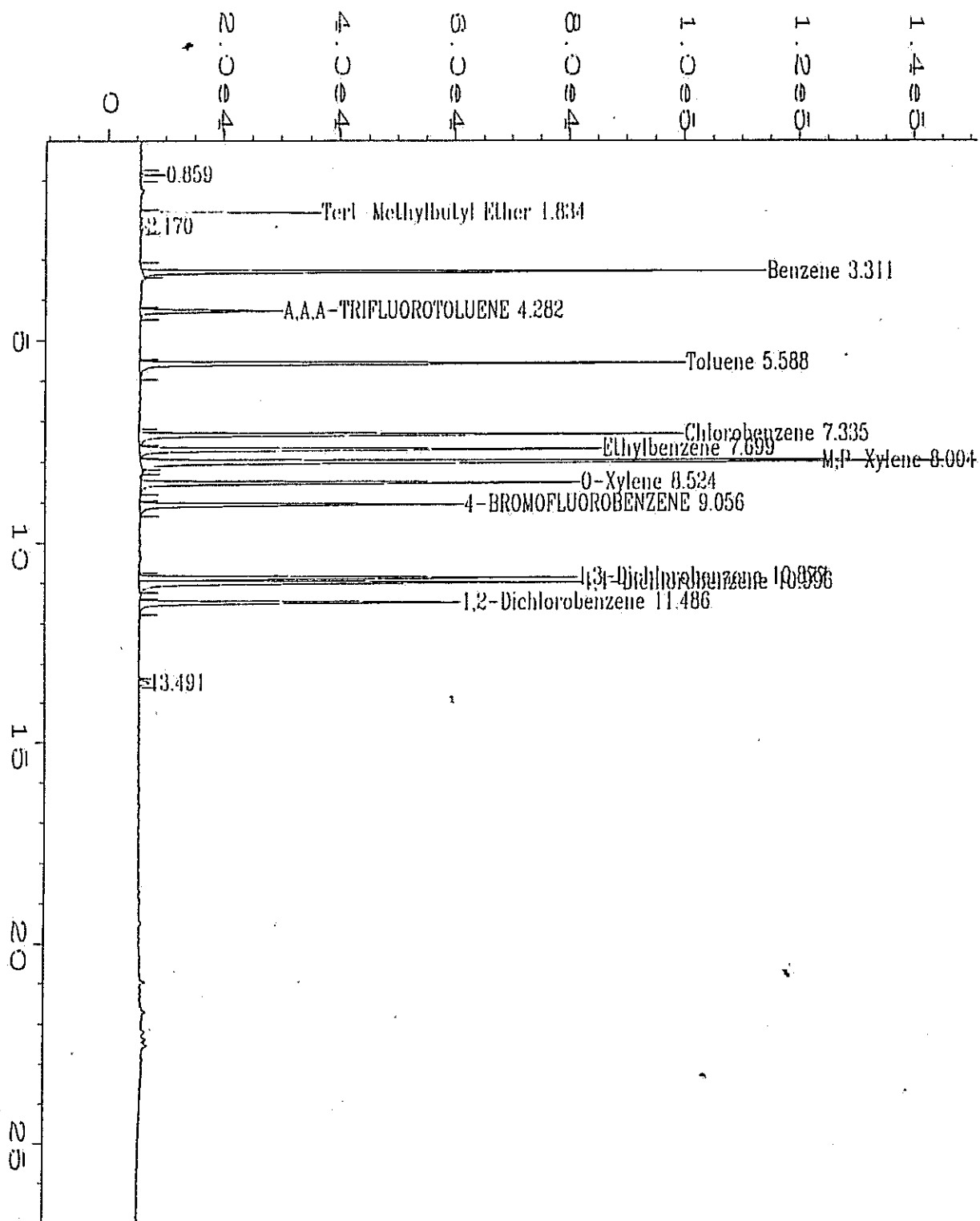


External Standard Report

Data File Name : C:\HPCHEM\2\DATA\b062696\60626F02.D  
 Operator : Doug Anderson Page Number : 1  
 Instrument : GC6 Vial Number : 2  
 Sample Name : 20ppb 8020 std Injection Number : 1  
 Run Time Bar Code: Sequence Line : 1  
 Acquired on : 26 Jun 96 11:27 AM Instrument Method: 6B061396.MT  
 Report Created on: 26 Jun 96 11:54 AM Analysis Method : 6B061396.MT  
 Last Recalib on : 14 JUN 96 11:11 AM Sample Amount : 0  
 Multiplier : 1 ISTD Amount :  
 Sample Info : 16ppb surr

Sig. 1 in C:\HPCHEM\2\DATA\b062696\60626F02.D

| Ret Time | Area   | Type | Width | Ref# | ppb    | Name                   |
|----------|--------|------|-------|------|--------|------------------------|
| 1.834    | 106883 | VV   | 0.053 | 1    | 18.483 | Tert-Methylbutyl Ether |
| 3.311    | 357731 | BV   | 0.052 | 1    | 18.710 | Benzene                |
| 4.282    | 96435  | BB   | 0.060 | 1    | 16.766 | A,A,A-TRIFLUOROTOLUENE |
| 5.588    | 349325 | VV   | 0.057 | 1    | 19.076 | Toluene                |
| 7.335    | 351780 | BV   | 0.058 | 1    | 18.978 | Chlorobenzene          |
| 7.699    | 307854 | VV   | 0.060 | 1    | 19.129 | Ethylbenzene           |
| 8.004    | 714123 | PV   | 0.063 | 1    | 37.544 | M,P-Xylene             |
| 8.524    | 292112 | BV   | 0.060 | 1    | 18.676 | O-Xylene               |
| 9.056    | 214592 | PV   | 0.059 | 1    | 16.007 | 4-BROMOFLUOROBENZENE   |
| 10.877   | 284538 | BV   | 0.058 | 1    | 18.270 | 1,3-Dichlorobenzene    |
| 10.996   | 301766 | VV   | 0.060 | 1    | 18.229 | 1,4-Dichlorobenzene    |
| 11.486   | 216071 | VV   | 0.060 | 1    | 18.025 | 1,2-Dichlorobenzene    |



|                    |                                       |                   |               |
|--------------------|---------------------------------------|-------------------|---------------|
| Data File Name     | : C:\HPCHEM\2\DATA\b062696\60626F02.D | Page Number       | : 1           |
| Operator           | : Doug Anderson                       | Vial Number       | : 2           |
| Instrument         | : GC6                                 | Injection Number  | : 1           |
| Sample Name        | : 20ppb 8020 std                      | Sequence Line     | : 1           |
| Run Time Bar Code: |                                       | Instrument Method | : 6B061396.MT |
| Acquired on        | : 26 Jun 96 11:27 AM                  | Analysis Method   | : 6B061396.MT |
| Report Created on  | : 26 Jun 96 11:54 AM                  | Sample Amount     | : 0           |
| Last Recalib on    | : 14 JUN 96 11:11 AM                  | ISTD Amount       | :             |
| Multiplier         | : 1                                   |                   |               |
| Sample Info        | : 16ppb surr                          |                   |               |

# BTEX Method Blank Summary

|                        |                        |
|------------------------|------------------------|
| Lab Name: EcoSys, Inc. | Client: ACE-SAD        |
| Ledger No(s): 107811   |                        |
| Batch No: 062696B      | Date Analyzed: 6/26/96 |
| Lab File ID: 60626F03  | Time Analyzed: 12:00   |
| Lab Sample ID: AB34963 | Level: Low             |
| Instrument ID: GC6     | Matrix: Water          |

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

|    | Client<br>Sample No. | Lab<br>Sample ID | Lab<br>File ID | Date<br>Analyzed |
|----|----------------------|------------------|----------------|------------------|
| 1  | NA                   | AB35129 LCS      | 60626F04       | 6/26/96          |
| 2  | NA                   | AB35130 MS       | 60626F05       | 6/26/96          |
| 3  | NA                   | AB35131 MSD      | 60626F06       | 6/26/96          |
| 4  | 241-T1-GW            | AB34959          | 60626F09       | 6/26/96          |
| 5  | TRIP BLK #2          | AB34960          | 60626F07       | 6/26/96          |
| 6  | TRIP BLK #3          | AB34962          | 60626F08       | 6/26/96          |
| 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: 107811  
 Batch No: 062696B  
 Lab File ID: 60626F05/60626F06

Client: ACE-SAD  
 Matrix Spike/Matrix Dup No.: AB35130 MS  
 AB35131 MSD  
 AB34960 REF  
 Level (Low/Med): Low

| Compound     | Spike Added (ug/L) | Sample Conc (ug/L) | MS Conc (ug/L) | MS % Recovery | # | QC Limits Recovery |
|--------------|--------------------|--------------------|----------------|---------------|---|--------------------|
| Benzene      | 20.0               | ND                 | 20.7           | 104           |   | 80-120             |
| Toluene      | 20.0               | ND                 | 21.4           | 107           |   | 80-120             |
| Ethylbenzene | 20.0               | ND                 | 21.0           | 105           |   | 80-120             |
| m,p-Xylene   | 40.0               | ND                 | 43.8           | 110           |   | 80-120             |
| o-Xylene     | 20.0               | ND                 | 23.0           | 115           |   | 80-120             |

| Compound     | Spike Added (ug/L) | MSD Conc (ug/L) | MSD % Recovery | # | % RPD | # | QC Limits RPD | Recovery |
|--------------|--------------------|-----------------|----------------|---|-------|---|---------------|----------|
| Benzene      | 20.0               | 19.0            | 95             |   | 9     |   | 30            | 80-120   |
| Toluene      | 20.0               | 19.9            | 100            |   | 7     |   | 30            | 80-120   |
| Ethylbenzene | 20.0               | 19.3            | 97             |   | 8     |   | 30            | 80-120   |
| m,p-Xylene   | 40.0               | 40.6            | 102            |   | 8     |   | 30            | 80-120   |
| o-Xylene     | 20.0               | 21.4            | 107            |   | 7     |   | 30            | 80-120   |

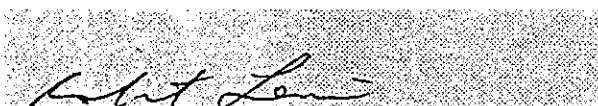
# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of OC limits

ND = None Detected

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits



QA/QC Officer

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# BTEX LCS Recoveries (Water)

Lab Name: EcoSys, Inc.  
 Ledger No: 107811  
 Batch No: 062696B  
 Lab File ID: 60626F04

Client: ACE-SAD  
 Lab Control Spike: AB35129  
 Level (Low/Med): Low

| Compound     | Spike Added<br>(ug/L) | Sample<br>Conc.<br>(ug/L) | LCS<br>Conc<br>(ug/L) | LCS %<br>Recovery | # | QC Limits<br>Recovery |
|--------------|-----------------------|---------------------------|-----------------------|-------------------|---|-----------------------|
| Benzene      | 20.0                  | NR                        | 20.3                  | 102               |   | 80-120                |
| Toluene      | 20.0                  | NR                        | 20.7                  | 104               |   | 80-120                |
| Ethylbenzene | 20.0                  | NR                        | 20.7                  | 104               |   | 80-120                |
| m,p-Xylene   | 40.0                  | NR                        | 41.3                  | 103               |   | 80-120                |
| o-Xylene     | 20.0                  | NR                        | 20.3                  | 102               |   | 80-120                |

\* Values outside of QC limits  
 ND = Not Detected  
 NR = Not Required

Spike Recovery: 0 out of 5 outside limits



QA/QC Officer

Comments: \_\_\_\_\_

## BTEX Surrogate Recovery Summary

Lab Name: EcoSys, Inc.  
Ledger No(s): 107811  
Batch No.: 062696B  
GC Column: DB-VXR

Client: ACE-SAD

Matrix: Water  
Level: Low

[illegible]

**Surrogate Recovery Limits: 80-120%**

# Column to be used to flag recovery values

\* Values outside of required QC limits

ND = Not Detected

DO = Diluted Out

Licht Lane

QA/QC Officer

**Comments:**

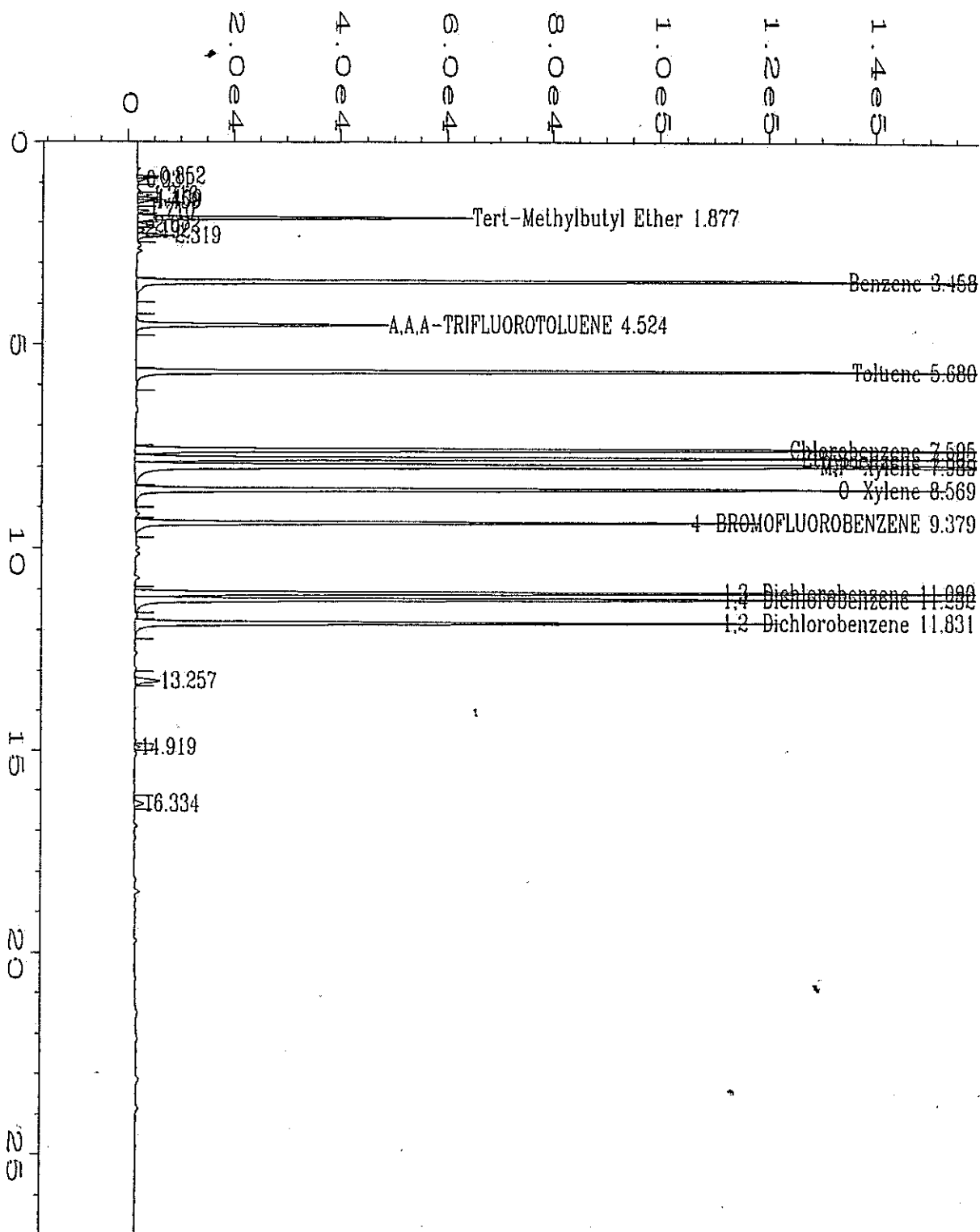
70

External Standard Report

Data File Name : C:\HPCHEM\1\DATA\b070196\30701F02.D  
 Operator : Doug Anderson Page Number : 1  
 Instrument : GC3 Vial Number : 2  
 Sample Name : 20ppb 8020 std Injection Number : 1  
 Run Time Bar Code: Sequence Line : 1  
 Acquired on : 01 Jul 96 10:51 AM Instrument Method: 3B061396.MTH  
 Report Created on: 01 Jul 96 11:19 AM Analysis Method : 3B061396.MTH  
 Last Recalib on : 14 JUN 96 10:38 AM Sample Amount : 0  
 Multiplier : 1 ISTD Amount :  
 Sample Info : 16ppb surr

Sig. 1 in C:\HPCHEM\1\DATA\b070196\30701F02.D

| Ret Time | Area    | Type | Width | Ref# | ppb    | Name                   |
|----------|---------|------|-------|------|--------|------------------------|
| 1.877    | 233799  | VV   | 0.058 | 1    | 20.131 | Tert-Methylbutyl Ether |
| 3.458    | 745156  | BB   | 0.056 | 1    | 19.026 | Benzene                |
| 4.524    | 198292  | VB   | 0.065 | 1    | 13.986 | A,A,A-TRIFLUOROTOLUENE |
| 5.680    | 703308  | VB   | 0.060 | 1    | 18.713 | Toluene                |
| 7.595    | 699570  | BV   | 0.058 | 1    | 18.541 | Chlorobenzene          |
| 7.802    | 631671  | VV   | 0.061 | 1    | 18.782 | Ethylbenzene           |
| 7.989    | 1461324 | VV   | 0.063 | 1    | 37.760 | M,P-Xylene             |
| 8.569    | 613748  | VV   | 0.063 | 1    | 18.601 | O-Xylene               |
| 9.379    | 455610  | PV   | 0.061 | 1    | 16.067 | 4-BROMOFLUOROBENZENE   |
| 11.090   | 619780  | BV   | 0.060 | 1    | 18.304 | 1,3-Dichlorobenzene    |
| 11.252   | 635534  | VV   | 0.061 | 1    | 18.544 | 1,4-Dichlorobenzene    |
| 11.831   | 478932  | VB   | 0.061 | 1    | 20.092 | 1,2-Dichlorobenzene    |



|                    |                                       |                   |                |
|--------------------|---------------------------------------|-------------------|----------------|
| Data File Name     | : C:\HPCHEM\1\DATA\b070196\30701F02.D | Page Number       | : 1            |
| Operator           | : Doug Anderson                       | Vial Number       | : 2            |
| Instrument         | : GC3                                 | Injection Number  | : 1            |
| Sample Name        | : 20ppb 8020 std                      | Sequence Line     | : 1            |
| Run Time Bar Code: |                                       | Instrument Method | : 3B061396.MTH |
| Acquired on        | : 01 Jul 96 10:51 AM                  | Analysis Method   | : 3B061396.MTH |
| Report Created on  | : 01 Jul 96 11:19 AM                  | Sample Amount     | : 0            |
| Last Recalib on    | : 14 JUN 96 10:38 AM                  | ISTD Amount       | :              |
| Multiplier         | : 1                                   |                   |                |
| Sample Info        | : 16ppb surr                          |                   |                |

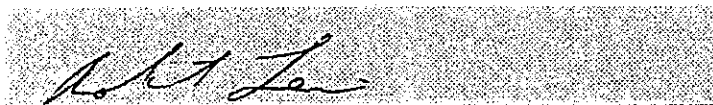
# BTEX Method Blank Summary

|                        |                       |
|------------------------|-----------------------|
| Lab Name: EcoSys, Inc. | Client: ACE-SAD       |
| Ledger No(s): 107811   |                       |
| Batch No: 06269600     | Date Analyzed: 7/1/96 |
| Lab File ID: 30701F03  | Time Analyzed: 11:24  |
| Lab Sample ID: AB34964 | Level: Low            |
| Instrument ID: GC3     | Matrix: Soil          |

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

|    | Client<br>Sample No. | Lab<br>Sample ID | Lab<br>File ID | Date<br>Analyzed |
|----|----------------------|------------------|----------------|------------------|
| 1  | NA                   | AB35203 LCS      | 30701F04       | 7/1/96           |
| 2  | 243-T1-S1            | AB34961          | 30701F08       | 7/1/96           |
| 3  |                      |                  |                |                  |
| 4  |                      |                  |                |                  |
| 5  |                      |                  |                |                  |
| 6  |                      |                  |                |                  |
| 7  |                      |                  |                |                  |
| 8  |                      |                  |                |                  |
| 9  |                      |                  |                |                  |
| 10 |                      |                  |                |                  |
| 11 |                      |                  |                |                  |
| 12 |                      |                  |                |                  |
| 13 |                      |                  |                |                  |
| 14 |                      |                  |                |                  |
| 15 |                      |                  |                |                  |
| 16 |                      |                  |                |                  |
| 17 |                      |                  |                |                  |
| 18 |                      |                  |                |                  |
| 19 |                      |                  |                |                  |
| 20 |                      |                  |                |                  |

NA = Not Applicable



QA/QC Officer

Comments:

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# BTEX Method Blank Summary

|                        |                       |
|------------------------|-----------------------|
| Lab Name: EcoSys, Inc. | Client: ACE-SAD       |
| Ledger No(s): 107811   |                       |
| Batch No: 070196B      | Date Analyzed: 7/1/96 |
| Lab File ID: 30701F03  | Time Analyzed: 11:24  |
| Lab Sample ID: AB34964 | Level: Low            |
| Instrument ID: GC3     | Matrix: Soil          |

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

|    | Client<br>Sample No. | Lab<br>Sample ID | Lab<br>File ID | Date<br>Analyzed |
|----|----------------------|------------------|----------------|------------------|
| 1  | NA                   | AB35211 MS       | 30701F05       | 7/1/96           |
| 2  | NA                   | AB35212 MSD      | 30701F06       | 7/1/96           |
| 3  |                      |                  |                |                  |
| 4  |                      |                  |                |                  |
| 5  |                      |                  |                |                  |
| 6  |                      |                  |                |                  |
| 7  |                      |                  |                |                  |
| 8  |                      |                  |                |                  |
| 9  |                      |                  |                |                  |
| 10 |                      |                  |                |                  |
| 11 |                      |                  |                |                  |
| 12 |                      |                  |                |                  |
| 13 |                      |                  |                |                  |
| 14 |                      |                  |                |                  |
| 15 |                      |                  |                |                  |
| 16 |                      |                  |                |                  |
| 17 |                      |                  |                |                  |
| 18 |                      |                  |                |                  |
| 19 |                      |                  |                |                  |
| 20 |                      |                  |                |                  |

NA = Not Applicable

  
QA/QC Officer

Comments:

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# Soil BTEX MS/MSD Recovery

Lab Name: EcoSys, Inc.  
 Ledger No: 107811  
 Batch No: 070196B  
 Lab File ID: 30701F05/30701F06

Client: USACE-SAD  
 Matrix Spike/Lab Sample No: AB34961 REF  
 AB35211 MS  
 AB35212 MSD

| Compound     | Spike Added<br>(ug/Kg) | Sample<br>Conc<br>(ug/Kg) | MS<br>Conc<br>(ug/Kg) | MS %<br>Recovery | # | QC Limits<br>Recovery |
|--------------|------------------------|---------------------------|-----------------------|------------------|---|-----------------------|
| Benzene      | 20                     | ND                        | 11                    | 57               |   | 40-160                |
| Toluene      | 20                     | ND                        | 12                    | 59               |   | 40-160                |
| Ethylbenzene | 20                     | ND                        | 8.3                   | 42               |   | 40-160                |
| m,p-Xylene   | 40                     | ND                        | 16                    | 40               |   | 40-160                |
| o-Xylene     | 20                     | ND                        | 8.2                   | 41               |   | 40-160                |

| Compound     | Spike Added<br>(ug/Kg) | MSD<br>Conc<br>(ug/Kg) | MSD %<br>Recovery | # | % RPD | # | QC Limits<br>RPD | Recovery |
|--------------|------------------------|------------------------|-------------------|---|-------|---|------------------|----------|
| Benzene      | 20                     | 11                     | 56                |   | 1     |   | 30               | 40-160   |
| Toluene      | 20                     | 13                     | 67                |   | 12    |   | 30               | 40-160   |
| Ethylbenzene | 20                     | 8                      | 39                | * | 6     |   | 30               | 40-160   |
| m,p-Xylene   | 40                     | 15                     | 39                | * | 4     |   | 30               | 40-160   |
| o-Xylene     | 20                     | 8                      | 39                | * | 5     |   | 30               | 40-160   |

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

\* Values outside of OC limits

ND = Not Detected

RPD: 0 out of 5 outside limits

Spike Recovery: 3 out of 10 outside limits

*[Signature]*

QA/QC Officer

Comments: MSD show interference matrix for Ethylbenzene, m,p-Xylene, o-Xylene.

# BTEX LCS Recoveries (Soil)

Lab Name: EcoSys, Inc.  
 Ledger No: 107811  
 Batch No: 06269600  
 Lab File ID: 30701F04

Client: ACESAD  
 Laboratory Control Sample No: AB35203  
 Level (Low/Med): Low

| Compound     | Spike Added<br>(ug/Kg) | LCS<br>Conc<br>(ug/Kg) | LCS %<br>Recovery | # | QC Limits<br>Recovery |
|--------------|------------------------|------------------------|-------------------|---|-----------------------|
| Benzene      | 20                     | 20                     | 100               |   | 40-160                |
| Toluene      | 20                     | 20                     | 100               |   | 40-160                |
| Ethylbenzene | 20                     | 20                     | 100               |   | 40-160                |
| m,p-Xylene   | 40                     | 40                     | 100               |   | 40-160                |
| o-Xylene     | 20                     | 20                     | 100               |   | 40-160                |

\* Values outside of OC limits  
 ND = Not Detected

Spike Recovery: 0 out of 5 outside limits

  
 QA/QC Officer

Comments: \_\_\_\_\_

## BTEX Surrogate Recovery Summary

|                        |                 |
|------------------------|-----------------|
| Lab Name: EcoSys, Inc. | Client: ACE-SAD |
| Ledger No(s): 107811   |                 |
| Batch No.: 6269600     | Matrix: SOIL    |
| GC Column : DB-VXR     | Level: LOW      |

[illegible]

**Surrogate Recovery Limits: 40-160%**

# Column to be used to flag recovery values

\* Values outside of required QC limits

ND = Not Detected

**DO = Diluted Out**

Robert Lane

QA/QC Officer

**Comments:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## BTEX Surrogate Recovery Summary

|                        |                |
|------------------------|----------------|
| Lab Name: EcoSys, Inc. | Client: ACESAD |
| Ledger No(s): 107811   |                |
| Batch No.: 070196B     | Matrix: SOIL   |
| GC Column: DB-VXR      | Level: LOW     |

[illegible]

Surrogate Recovery Limits: 40-160%

# Column to be used to flag recovery values

\* Values outside of required QC limits

ND = Not Detected

DO = Diluted Out

Robert L. Linn  
QA/QC Officer

**Comments:**

\*Surrogate is outside QC limits.

## SemiVolatiles DFTPP

Lab Name: EcoSys, Inc.Client: ACE SADLedger No: 107811DFTPP Injection Date: 6/27/96Lab File ID: DFTPP062796DFTPP Injection Time: 15:13Instrument ID: MSD-3Batch Number: 062796B

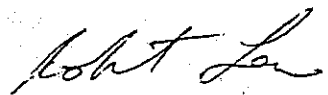
| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 30.0 - 60.0% of mass 198           | 58.0                 |
| 68  | Less than 2.0% of mass 69          | 0.0                  |
| 69  | Mass 69 relative abundance         | 72.0 (1)             |
| 70  | Less than 2.0% of mass 69          | 0.0                  |
| 127 | 40.0 - 60.0% of mass 198           | 48.6                 |
| 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           | 19.5                 |
| 365 | Greater than 1% of mass 198        | 1.6                  |
| 441 | Present, but less than mass 443    | 77.6                 |
| 442 | Greater than 40% of mass 198       | 46.4                 |
| 443 | 17.0 - 23.0% of mass 442           | 20.1 (2)             |

1-Value is % mass 69

2-Value is % mass 442

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

|           | CLIENT<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-----------|----------------------|------------------|----------------|------------------|------------------|
| 01        | NA                   | CCV              | BNA0101001     | 06/27/96         | 3:35 PM          |
| 02        | METHOD BLANK W       | AB34963          | BNA0201002     | 06/27/96         | 4:30 PM          |
| 04        | NA                   | AB35002 LCS      | BNA0301003     | 06/27/96         | 5:30 PM          |
| 06        | NA                   | AB35000 MS       | BNA0501005     | 06/27/96         | 7:31 PM          |
| 07        | NA                   | AB35001 MSD      | BNA0601006     | 06/27/96         | 8:30 PM          |
| 08        | 241-TI-GW            | AB34959          | BNA0701007     | 06/27/96         | 9:29 PM          |
| 09        | METHOD BLANK         | AB35458          | BNA1401014     | 06/29/96         | 3:12 AM          |
| 10        | 241-TI-GW            | AB34959RE        | BNA1501015     | 06/29/96         | 4:11 AM          |
| 11        |                      |                  |                |                  |                  |
| 12        |                      |                  |                |                  |                  |
| 13        |                      |                  |                |                  |                  |
| Comments: |                      |                  |                |                  |                  |

  
 QA/QC OFFICER

Data File: /chem/msd3.i/3-062796.b/dftpp062796.d  
Print Date: 27-Jun-1996 15:29

Page 1

EcoSys, Inc.

Data file : /chem/msd3.i/3-062796.b/dftpp062796.d  
Lab. Id. : DFTPP02  
Inj Date : 27-JUN-96 15:13 Autotune Date: 07-Jun-96 08:53:1  
Operator : BINA Inst ID: msd3.i  
Smp Info : 50ng OF DFT-04-(37)  
Misc Info : INSTRUMENT TUNE FOR msd3.i  
Comment :  
Method : /chem/msd3.i/3-062796.b/dftpp288.m  
Meth Date : 27-Jun-1996 14:40  
Cal Date : Cal File:  
Als bottle: 1 QC Sample: DFTPP  
Dil Factor: 1.000 Target Version: Target 2.20  
Integrator: HP RTE Compound Sublist: all.sub  
Sample Type: WATER

CONCENTRATIONS  
ON-COL FINAL

| RT (REL RT)      | MASS | RESPONSE | ( ug/L ) | ( ug/L ) | TARGET RANGE | RATIO     |
|------------------|------|----------|----------|----------|--------------|-----------|
| CAS #: 5074-71-5 |      |          |          |          |              |           |
| 1 dftpp          |      |          |          |          |              | 100.00(Q) |
| 7.903(0.000)     | 198  | 226880   |          |          | 0.00- 0.00   | 57.45     |
| 7.903(0.000)     | 51   | 130341   |          |          | 0.00- 0.00   | 0.00      |
| 7.903(0.000)     | 68   | 0        |          |          | 0.00- 0.00   | 0.00      |
| 7.903(0.000)     | 69   | 159984   |          |          | 0.00- 0.00   | 70.51     |
| 7.903(0.000)     | 70   | 0        |          |          | 0.00- 0.00   | 0.00      |
| 7.903(0.000)     | 127  | 108450   |          |          | 0.00- 0.00   | 47.80     |
| 7.903(0.000)     | 197  | 0        |          |          | 0.00- 0.00   | 0.00      |
| 7.903(0.000)     | 199  | 14491    |          |          | 0.00- 0.00   | 6.39      |
| 7.903(0.000)     | 275  | 45208    |          |          | 0.00- 0.00   | 19.93     |
| 7.903(0.000)     | 365  | 4340     |          |          | 0.00- 0.00   | 1.91      |
| 7.903(0.000)     | 441  | 17783    |          |          | 0.00- 0.00   | 74.71     |
| 7.903(0.000)     | 442  | 119096   |          |          | 0.00- 0.00   | 52.49     |
| 7.903(0.000)     | 443  | 23803    |          |          | 0.00- 0.00   | 19.99     |

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/msd3.1/3-062796.b/dftpp062796.d  
Port Date: 27-Jun-1996 15:29

Page 2

EcoSys, Inc.

TARGET COMPOUNDS

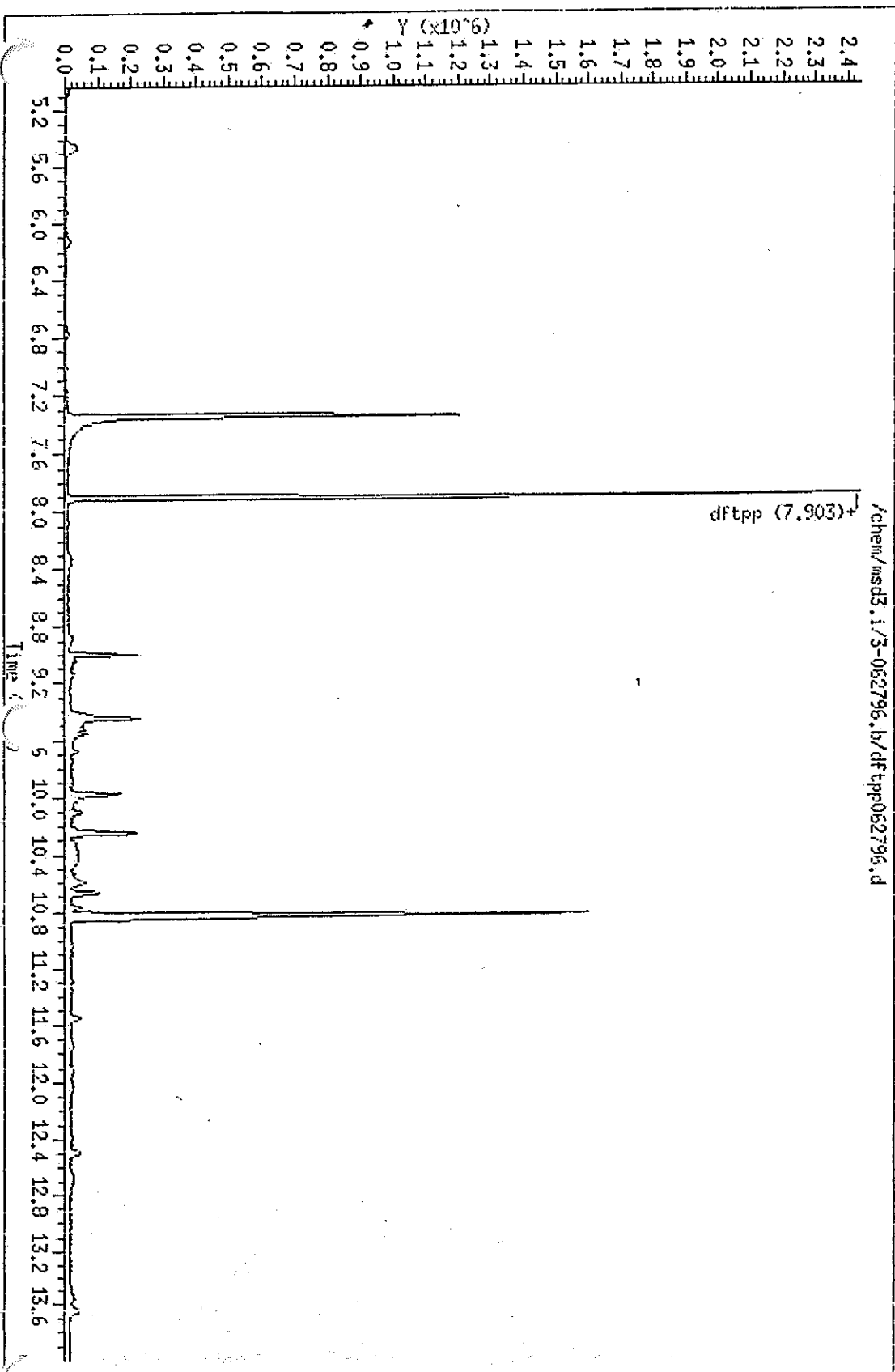
|                                       |                        |
|---------------------------------------|------------------------|
| Client Name:                          | Client SDG: 3-062796.b |
| Client Sample ID: DFTPP02             | Sample Date:           |
| Sample Location:                      | Sample Point:          |
| Lab Sample ID: DFTPP02                | Date Received:         |
| Sample Type: WATER                    | Level: LOW             |
| Analysis Type: SU                     | Column Number: 1       |
| Data Type: MS DATA                    |                        |
| Misc Info: INSTRUMENT TUNE FOR msd3.i |                        |

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

Data File: /chem/msd3.i/3-062796.b/dftpp062796.d  
Date : 27-JUN-96 15:13  
Instrument : msd3.i  
Sample ID : DFTPP02  
Column phase :  
Volume Injected (uL) : 1.0

Column diameter : 2.00

Page 3



Data File: /chem/msd3.i/3-062796.b/dftpp062796.d

Page 4

Date: 27-JUN-96 15:13

Instrument: msd3.i

Sample ID: DFTPP02

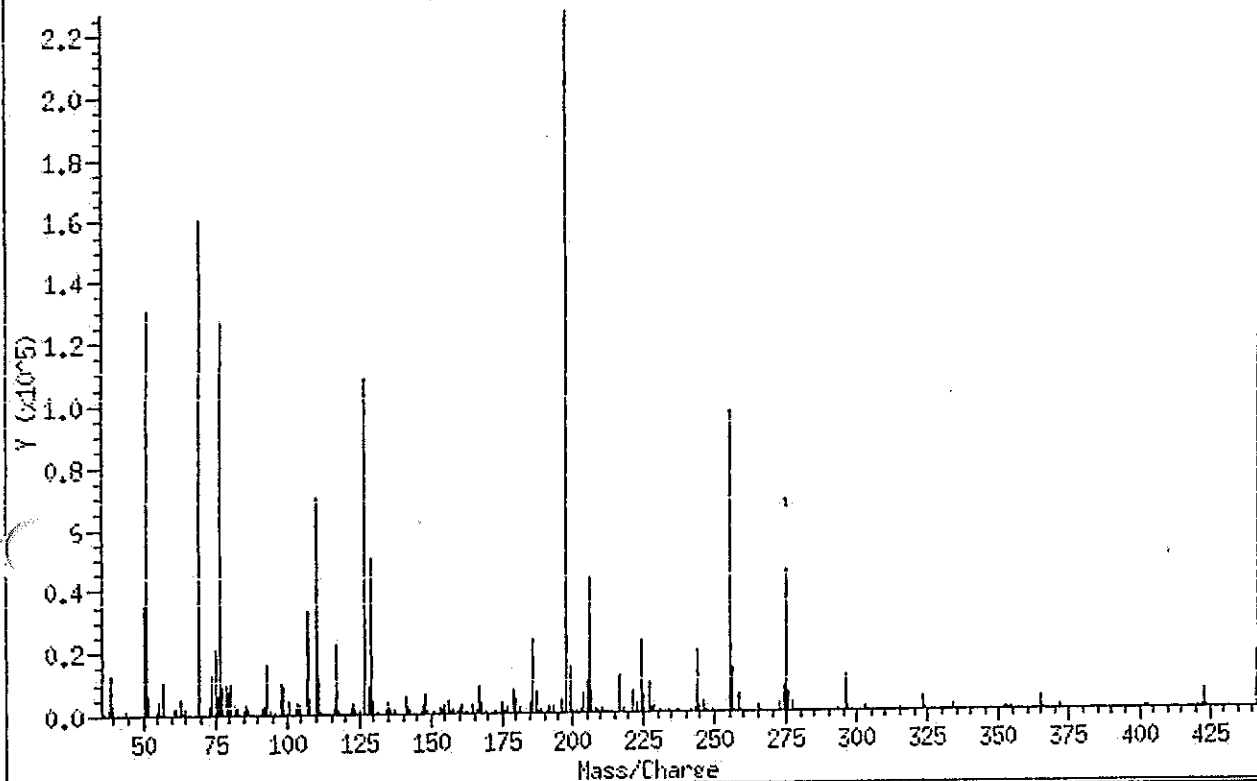
Column phase:

Column diameter: 2.00

Volume Injected (uL): 1.0

1 dftpp

Scan 400 (7.903 min) of dftpp062796.d (Averaged)



| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.0                |
| 51  | Mass 51 relative abundance         | 57.4                 |
| 68  | Mass 68 relative abundance         | 0.0                  |
| 69  | Mass 69 relative abundance         | 70.5                 |
| 70  | Mass 70 relative abundance         | 0.0                  |
| 127 | Mass 127 relative abundance        | 47.8                 |
| 197 | Mass 197 relative abundance        | 0.0                  |
| 199 | Mass 199 relative abundance        | 6.4                  |
| 275 | Mass 275 relative abundance        | 19.9                 |
| 365 | Mass 365 relative abundance        | 1.9                  |
| 441 | Mass 441 relative abundance        | 74.7                 |
| 442 | Mass 442 relative abundance        | 52.5                 |
| 443 | Mass 443 relative abundance        | 20.0                 |

ate : 27-JUN-96 15:13

Instrument : msd3.i

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

Spectrum: Scan 400-402 (7.903 min) Subtraction Scan 396

Base Peak: 198.00

Number of mass peaks: 189

| Mass  | Abund  | Mass   | Abund  | Mass   | Abund  | Mass   | Abund |
|-------|--------|--------|--------|--------|--------|--------|-------|
| 37.00 | 627    | 111.00 | 10812  | 176.00 | 1011   | 246.00 | 3353  |
| 38.00 | 1833   | 112.00 | 855    | 177.00 | 1799   | 247.00 | 724   |
| 39.00 | 12309  | 116.00 | 2400   | 178.00 | 276    | 249.00 | 352   |
| 41.00 | 323    | 117.00 | 22538  | 179.00 | 7723   | 255.00 | 96821 |
| 45.00 | 245    | 118.00 | 1532   | 180.00 | 5168   | 256.00 | 13875 |
| 49.00 | 243    | 122.00 | 2182   | 181.00 | 2340   | 257.00 | 849   |
| 50.00 | 35221  | 123.00 | 3238   | 184.00 | 236    | 258.00 | 5277  |
| 51.00 | 130341 | 124.00 | 1613   | 185.00 | 3287   | 259.00 | 665   |
| 52.00 | 6401   | 125.00 | 1264   | 186.00 | 23273  | 265.00 | 2150  |
| 55.00 | 1110   | 127.00 | 108450 | 187.00 | 6792   | 266.00 | 270   |
| 56.00 | 4255   | 128.00 | 8906   | 188.00 | 655    | 273.00 | 2864  |
| 57.00 | 10075  | 129.00 | 49650  | 189.00 | 1480   | 274.00 | 8026  |
| 58.00 | 244    | 130.00 | 4349   | 191.00 | 393    | 275.00 | 45208 |
| 61.00 | 1747   | 131.00 | 691    | 192.00 | 2075   | 276.00 | 6046  |
| 62.00 | 1844   | 134.00 | 1339   | 193.00 | 2244   | 277.00 | 2990  |
| 63.00 | 4879   | 135.00 | 3529   | 194.00 | 256    | 293.00 | 689   |
| 64.00 | 640    | 136.00 | 1512   | 196.00 | 4409   | 296.00 | 11139 |
| 65.00 | 2081   | 137.00 | 1699   | 198.00 | 226880 | 297.00 | 1245  |
| 69.00 | 159984 | 140.00 | 308    | 199.00 | 14491  | 303.00 | 1439  |
| 73.00 | 655    | 141.00 | 5817   | 200.00 | 860    | 314.00 | 235   |
| 74.00 | 12425  | 142.00 | 1813   | 201.00 | 849    | 315.00 | 829   |
| 75.00 | 20544  | 143.00 | 1306   | 203.00 | 1263   | 316.00 | 302   |
| 76.00 | 6489   | 146.00 | 987    | 204.00 | 5902   | 323.00 | 3966  |
| 77.00 | 126944 | 147.00 | 2748   | 205.00 | 10703  | 324.00 | 371   |
| 78.00 | 9207   | 148.00 | 6340   | 206.00 | 43840  | 327.00 | 272   |
| 79.00 | 9865   | 149.00 | 1147   | 207.00 | 5384   | 334.00 | 2311  |
| 80.00 | 7624   | 151.00 | 624    | 208.00 | 1650   | 335.00 | 280   |
| 81.00 | 9833   | 152.00 | 256    | 209.00 | 568    | 341.00 | 272   |
| 82.00 | 2519   | 153.00 | 1947   | 210.00 | 234    | 346.00 | 321   |
| 83.00 | 2094   | 154.00 | 1490   | 211.00 | 1563   | 352.00 | 884   |
| 85.00 | 1667   | 155.00 | 3079   | 217.00 | 11484  | 353.00 | 622   |
| 86.00 | 2873   | 156.00 | 4117   | 218.00 | 1329   | 354.00 | 879   |
| 87.00 | 1482   | 157.00 | 821    | 221.00 | 6884   | 365.00 | 4340  |
| 91.00 | 2331   | 158.00 | 1346   | 223.00 | 2628   | 366.00 | 595   |
| 92.00 | 2728   | 159.00 | 624    | 224.00 | 23076  | 372.00 | 1384  |

Data File: /chem/msd3.1/3-062796.b/dftpp062796.d

Page 6

ate : 27-JUN-96 15:13

Instrument : msd3.1

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

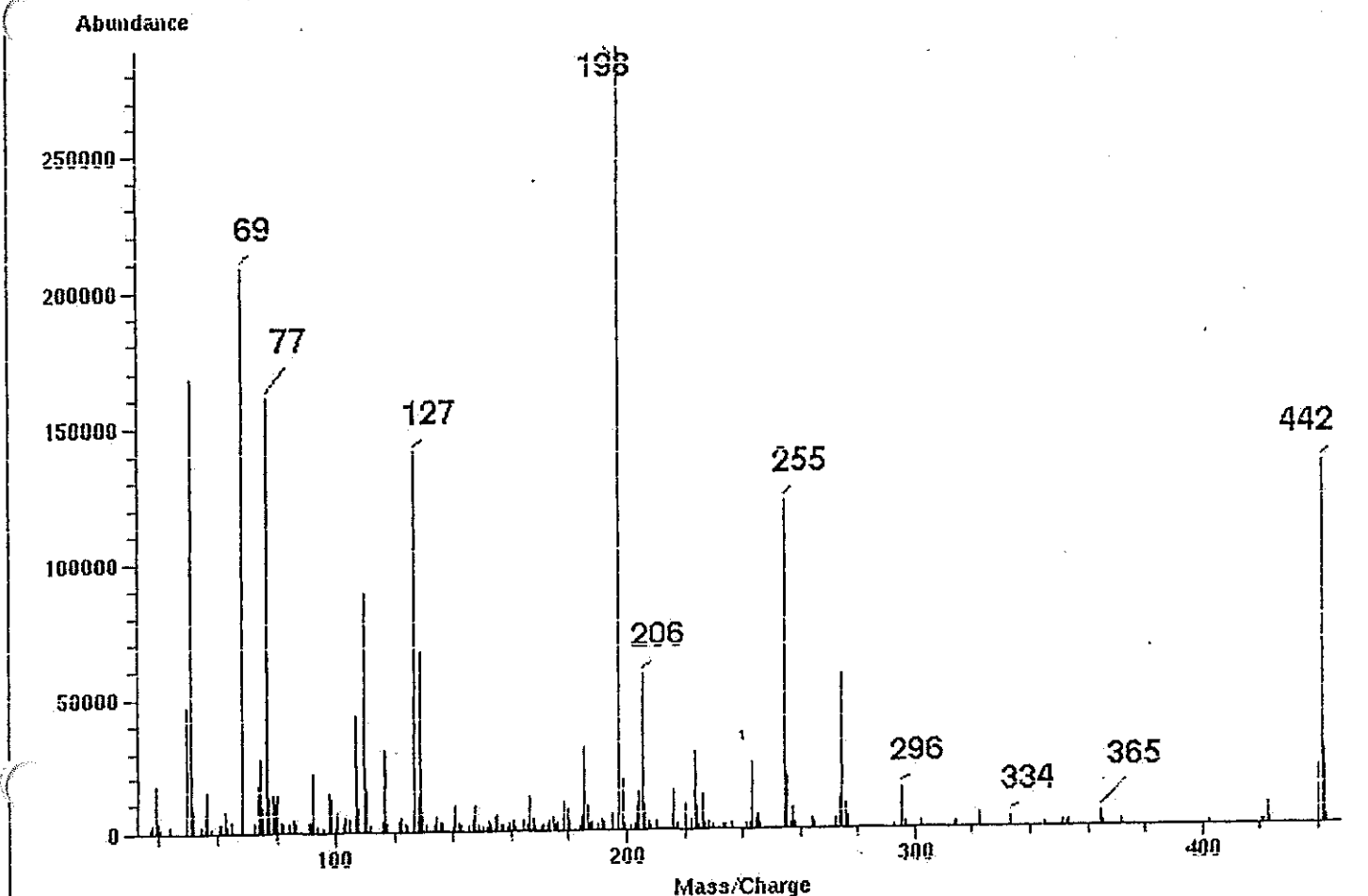
Spectrum: Scan 400-402 (7.903 min) Subtraction Scan 396

Base Peak: 198.00

Number of mass peaks: 189

| Mass   | Abund | Mass   | Abund | Mass   | Abund | Mass   | Abund  |
|--------|-------|--------|-------|--------|-------|--------|--------|
| 93.00  | 16171 | 160.00 | 1852  | 225.00 | 5491  | 402.00 | 396    |
| 94.00  | 1065  | 161.00 | 2575  | 226.00 | 297   | 403.00 | 770    |
| 96.00  | 592   | 162.00 | 601   | 227.00 | 9557  | 421.00 | 746    |
| 98.00  | 10702 | 165.00 | 2548  | 228.00 | 1302  | 422.00 | 736    |
| 99.00  | 8802  | 166.00 | 1492  | 229.00 | 1816  | 423.00 | 6123   |
| 100.00 | 907   | 167.00 | 9322  | 231.00 | 662   | 424.00 | 1026   |
| 101.00 | 4483  | 168.00 | 3479  | 234.00 | 534   | 441.00 | 17783  |
| 103.00 | 1793  | 169.00 | 595   | 235.00 | 250   | 442.00 | 119096 |
| 104.00 | 3290  | 171.00 | 298   | 237.00 | 614   | 443.00 | 23803  |
| 105.00 | 2856  | 172.00 | 1010  | 242.00 | 894   | 444.00 | 2176   |
| 107.00 | 33032 | 173.00 | 793   | 243.00 | 1070  |        |        |
| 108.00 | 4990  | 174.00 | 2077  | 244.00 | 19282 |        |        |
| 110.00 | 70117 | 175.00 | 3567  | 245.00 | 2384  |        |        |

Scan 401 (7.903 min) of dftpp062796.d  
msd3 (ms5971-2); /chem/config/dvc/ms5971-2/dftpp.u; Tuned at 08:53 AM EDT on Fri Jun 07, 1996



| Mass | Ion abundance criteria             | %relative abundance |
|------|------------------------------------|---------------------|
| 51   | 30.0 - 60.0% of mass 198           | 58.0                |
| 68   | Less than 2.0% of mass 69          | 0.0                 |
| 69   | Mass 69 relative abundance is      | 72.0                |
| 70   | Less than 2.0% of mass 69          | 0.0                 |
| 127  | 40.0 to 60.0% of mass 198          | 48.6                |
| 197  | Less than 1.0% of mass 198         | 0.0                 |
| 198  | Base peak, 100% relative abundance | 100.0               |
| 199  | 5.0 to 9.0% of mass 198            | 6.2                 |
| 275  | 10.0 - 30.0% of mass 198           | 19.5                |
| 365  | Greater than 1% of mass 198        | 1.6                 |
| 441  | Present, but less than mass 443    | 77.6                |
| 442  | Greater than 40.0% of mass 198     | 46.4                |
| 443  | 17.0 - 23.0% of mass 442           | 20.1                |

EcoSys, Inc.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/msd3.1/3-062796.b/BNA0101001.d  
 Lab. Id. :  
 Inj Date : 27-JUN-1996 15:35 Autotune Date: 07-Jun-96 08:53:1  
 Operator : BINA SHAH Inst ID: msd3.1  
 Smp Info : BNA-80-38  
 Misc Info : CONT CAL 80UG/ML  
 Comment :  
 Method : /chem/msd3.1/3-062796.b/MA-BNA\_2.m  
 Meth Date : 28-Jun-1996 08:39 target  
 Cal Date : 27-JUN-96 15:35 Cal File: BNA0101001.d  
 Als bottle: 1 Continuing Calibration Sample  
 Dil Factor: 1.000 Target Version: Target 2.20  
 Integrator: HP RTE Compound Sublist: all.sub  
 Sample Type: WATER

| Compounds                       | QUANT SIG<br>MASS | RT (REL RT)   | RESPONSE | CONCENTRATIONS       |                 |
|---------------------------------|-------------------|---------------|----------|----------------------|-----------------|
|                                 |                   |               |          | ON-COLUMN<br>(ng/ul) | FINAL<br>(ug/L) |
| 1 2-Fluorophenol                | 112.00            | 9.554(0.718)  | 1272984  | 79.9                 | 79.9            |
| 2 Phenol-d5                     | 99.00             | 12.578(0.945) | 1897719  | 80.9                 | 80.9            |
| 3 Aniline                       | 93.00             | 12.726(0.955) | 1840236  | 75.4                 | 75.4            |
| 4 Phenol **                     | 94.00             | 12.627(0.949) | 1900940  | 78.4                 | 78.4            |
| 5 Bis(2-chloroethyl) ether      | 93.00             | 12.726(0.956) | 1840236  | 79.5                 | 79.5            |
| 6 2-Chlorophenol                | 128.00            | 12.766(0.959) | 1376979  | 80.6                 | 80.6            |
| 7 1,3-Dichlorobenzene           | 146.00            | 13.131(0.987) | 1598072  | 73.2                 | 73.2            |
| 8 1,4-Dichlorobenzene-d4        | 152.00            | 13.309(1.000) | 548945   | 40.0                 |                 |
| 9 1,4-Dichlorobenzene **        | 146.00            | 13.358(1.004) | 1601020  | 71.9                 | 71.9            |
| 10 1,2-Dichlorobenzene          | 146.00            | 13.743(1.033) | 1565282  | 73.5                 | 73.5            |
| 11 Benzyl alcohol               | 79.00             | 13.832(1.039) | 165249   | 8.01                 | 8.01(aH)        |
| 12 2-Methylphenol               | 108.00            | 14.188(1.066) | 1204576  | 75.1                 | 75.1            |
| 13 Bis(2-chloroisopropyl) ether | 45.00             | 14.148(1.063) | 2420859  | 88.8                 | 88.8            |
| 14 4-Methylphenol               | 108.00            | 14.633(1.099) | 1119165  | 68.0                 | 68.0            |
| 15 N-Nitrosodi-n-propylamine *  | 70.00             | 14.564(1.074) | 1348763  | 77.1                 | 77.1            |
| 16 Hexachloroethane             | 117.00            | 14.633(1.099) | 640633   | 66.8                 | 66.8            |
| 17 Nitrobenzene-d5              | 82.00             | 14.851(0.889) | 2093944  | 75.3                 | 75.3            |
| 18 Nitrobenzene                 | 77.00             | 14.910(0.893) | 1947416  | 75.3                 | 75.3            |
| 19 Isophorone                   | 82.00             | 15.582(0.933) | 4043222  | 77.6                 | 77.6            |
| 20 2-Nitrophenol **             | 139.00            | 15.741(0.943) | 1054584  | 87.2                 | 87.2            |
| 21 2,4-Dimethylphenol           | 107.00            | 15.998(0.958) | 1480430  | 67.8                 | 67.8            |
| 22 Bis(2-Chloroethoxy)methane   | 93.00             | 16.216(0.971) | 2386326  | 85.6                 | 85.6            |
| 23 2,4-Dichlorophenol **        | 162.00            | 16.433(0.984) | 1207366  | 73.8                 | 73.8            |
| 24 Benzoic acid                 | 105.00            | 16.542(0.000) | 779134   | 58.9                 | 58.9(aH)        |
| 1,2,4-Trichlorobenzene          | 180.00            | 16.582(0.993) | 1260883  | 66.9                 | 66.9            |
| Naphthalene-d8                  | 136.00            | 16.701(1.000) | 1918766  | 40.0                 |                 |
| 27 Naphthalene                  | 128.00            | 16.771(1.004) | 3760248  | 72.0                 | 72.0            |
| 28 4-Chloroaniline              | 127.00            | 17.424(1.004) | 1589447  | 73.4                 | 73.4(aH)        |
| 29 Hexachlorobutadiene **       | 225.00            | 17.117(1.025) | 719369   | 61.9                 | 61.9            |
| 30 4-Chloro-3-methylphenol **   | 107.00            | 18.333(1.098) | 1235995  | 63.8                 | 63.8            |
| 31 2-Methylnaphthalene          | 142.00            | 18.590(1.113) | 2470304  | 73.6                 | 73.6            |

| Compounds                      | QUANT SIG<br>MASS | RT (REL RT)   | RESPONSE | CONCENTRATIONS       |                 |
|--------------------------------|-------------------|---------------|----------|----------------------|-----------------|
|                                |                   |               |          | ON-COLUMN<br>(ng/ul) | FINAL<br>(ug/L) |
| 32 Hexachlorocyclopentadiene * | 237.00            | 18.996(0.892) | 683245   | 75.2                 | 75.2            |
| 33 2,4,6-Trichlorophenol **    | 196.00            | 19.372(0.910) | 675875   | 71.2                 | 71.2            |
| 34 2,4,5-Trichlorophenol       | 196.00            | 19.471(0.914) | 789826   | 71.7                 | 71.7            |
| \$ 35 2-Fluorobiphenyl         | 172.00            | 19.590(0.920) | 2807399  | 73.0                 | 73.0            |
| 36 2-Chloronaphthalene         | 162.00            | 19.858(0.933) | 2516810  | 75.5                 | 75.5            |
| 37 2-Nitroaniline              | 65.00             | 20.194(0.948) | 1111253  | 85.6                 | 85.6            |
| 38 Dimethyl phthalate          | 163.00            | 20.708(0.973) | 3356854  | 79.8                 | 79.8            |
| 39 2,6-Dinitrotoluene          | 165.00            | 20.856(0.980) | 815139   | 85.7                 | 85.7            |
| 40 Acenaphthylene              | 152.00            | 20.926(0.983) | 3770574  | 79.2                 | 79.2            |
| 41 3-Nitroaniline              | 138.00            | 21.292(1.000) | 682488   | 79.0                 | 79.0            |
| * 42 Acenaphthene-d10          | 164.00            | 21.292(1.000) | 1130774  | 40.0                 |                 |
| 43 Acenaphthene **             | 153.00            | 21.391(1.005) | 2547557  | 76.6                 | 76.6            |
| 44 2,4-Dinitrophenol *         | 184.00            | 21.540(1.012) | 382584   | 91.8                 | 91.8            |
| 45 4-Nitrophenol *             | 65.00             | 21.827(1.025) | 550365   | 60.7                 | 60.7            |
| 46 2,4-Dinitrotoluene          | 165.00            | 21.886(1.028) | 1013053  | 81.8                 | 81.8            |
| 47 Dibenzofuran                | 168.00            | 21.837(1.026) | 3031779  | 69.2                 | 69.2            |
| 48 Diethyl phthalate           | 149.00            | 22.559(1.060) | 3355273  | 76.2                 | 76.2            |
| 49 4-Chlorophenyl phenyl ether | 204.00            | 22.768(1.069) | 1132774  | 66.7                 | 66.7            |
| Fluorene                       | 166.00            | 22.728(1.067) | 2513962  | 70.8                 | 70.8            |
| 4-Nitroaniline                 | 138.00            | 22.877(1.074) | 521929   | 99.6                 | 99.6            |
| 2 4,6-Dinitro-2-methylphenol   | 198.00            | 22.947(0.913) | 516948   | 81.0                 | 81.0(M)         |
| 53 N-Nitrosodiphenylamine **   | 169.00            | 23.115(0.919) | 1056024  | 92.7                 | 92.7            |
| 54 1,2-Diphenylhydrazine       | 77.00             | 23.205(0.923) | 7492107  | 81.9                 | 81.9(A)         |
| \$ 55 2,4,6-Tribromophenol     | 330.00            | 23.373(1.098) | 466531   | 66.1                 | 66.1            |
| 56 4-Bromophenyl phenyl ether  | 248.00            | 24.036(0.956) | 740411   | 73.1                 | 73.1            |
| 57 Hexachlorobenzene           | 283.70            | 24.145(0.960) | 880916   | 70.1                 | 70.1            |
| 58 Pentachlorophenol **        | 265.70            | 24.689(0.982) | 429950   | 63.2                 | 63.2            |
| * 59 Phenanthrene-d10          | 188.00            | 25.145(1.000) | 1499246  | 40.0                 |                 |
| 60 Phenanthrene                | 178.00            | 25.224(1.003) | 3401157  | 79.6                 | 79.6            |
| 61 Anthracene                  | 178.00            | 25.353(1.008) | 3213039  | 78.7                 | 78.7            |
| 62 Carbazole                   | 167.00            | 25.788(1.026) | 1346980  | 126                  | 126(M)          |
| 63 Di-n-butyl phthalate        | 149.00            | 26.777(1.065) | 5454851  | 79.2                 | 79.2            |
| 64 Fluoranthene **             | 202.00            | 28.299(1.125) | 3237872  | 70.9                 | 70.9            |
| 65 Pyrene                      | 202.00            | 28.882(0.902) | 3387506  | 82.0                 | 82.0            |
| \$ 66 Terphenyl-d14            | 244.00            | 29.337(0.916) | 2279501  | 82.9                 | 82.9            |
| 67 Butyl benzyl phthalate      | 149.00            | 30.640(0.957) | 2357366  | 92.4                 | 92.4            |
| 68 Dioctyl adipate             | 129.00            | 30.878(0.964) | 1693346  | 93.2                 | 93.2(A)         |
| 69 3,3'-Dichlorobenzidine      | 252.00            | 31.965(0.998) | 144384   | 31.7                 | 31.7(M)         |
| 70 Bis(2-ethylhexyl) phthalate | 149.00            | 32.135(1.003) | 3095024  | 87.5                 | 87.5            |
| 71 Benz(a)anthracene           | 228.00            | 31.995(0.999) | 2793674  | 81.5                 | 81.5            |
| * 72 Chrysene-d12              | 240.00            | 32.025(1.000) | 1126063  | 40.0                 |                 |
| 73 Chrysene                    | 228.00            | 32.095(1.002) | 2405609  | 81.7                 | 81.7            |
| 74 Di-n-octyl phthalate **     | 149.00            | 33.767(0.938) | 5535512  | 90.0                 | 90.0            |
| 75 Benzo(b)fluoranthene        | 252.00            | 34.805(0.967) | 2870356  | 82.1                 | 82.1            |
| Benzo(k)fluoranthene           | 252.00            | 34.904(0.969) | 2364674  | 78.8                 | 78.8            |
| Benzo(a)pyrene **              | 252.00            | 35.844(0.996) | 2386151  | 81.6                 | 81.6            |
| * 78 Perylene-d12              | 264.00            | 36.003(1.000) | 922950   | 40.0                 |                 |
| 79 Indeno(1,2,3-cd)pyrene      | 276.00            | 40.405(1.122) | 2070745  | 74.9                 | 74.9            |
| 80 Dibenz(a,h)anthracene       | 278.00            | 40.544(1.126) | 1968692  | 78.7                 | 78.7            |
| 81 Benzo(g,h,i)perylene        | 276.00            | 41.779(1.160) | 1964549  | 73.3                 | 73.3            |

Data File: \chem\msd3.1\3-062196.b\BHH0101001.d  
Report Date: 28-Jun-1996 08:39

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#### QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount  
exceeded maximum amount.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

EcoSys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.1      Injection Date: 27-JUN-1996 15:35  
 Lab File ID: BNA0101001.d      Init. Calibration Dates: 03/10/93 06/14/96  
 Analysis Type: WATER      Init. Calibration Times: 11:35 12:12  
 Lab Sample ID:      Method File: /chem/msd3.1/3-062796.b/MA-BNA\_2.m

| COMPOUND                      | RRF   | RF80  | RRF    | %D    | %D      |
|-------------------------------|-------|-------|--------|-------|---------|
| =====                         | ===== | ===== | =====  | ===== | =====   |
| 12-Fluorophenol               | 1.161 | 1.159 | 10.050 | 0.11  | 30.01   |
| 1Phenol-d5                    | 1.709 | 1.729 | 10.050 | 1.11  | 30.01   |
| 1Aniline                      | 1.779 | 1.676 | 10.050 | 5.81  | 30.01   |
| 1Phenol **                    | 1.767 | 1.731 | 10.050 | 2.01  | 30.01   |
| 1Bis(2-chloroethyl) ether     | 1.686 | 1.676 | 10.050 | 0.61  | 30.01   |
| 12-Chlorophenol               | 1.245 | 1.254 | 10.050 | 0.71  | 30.01   |
| 11,3-Dichlorobenzene          | 1.592 | 1.456 | 10.050 | 8.51  | 30.01   |
| 11,4-Dichlorobenzene **       | 1.622 | 1.458 | 10.050 | 10.11 | 30.01   |
| 11,2-Dichlorobenzene          | 1.552 | 1.426 | 10.050 | 8.11  | 30.01   |
| 1Benzyl alcohol               | 1.503 | 0.151 | 10.050 | 90.01 | 30.01<- |
| 12-Methylphenol               | 1.169 | 1.097 | 10.050 | 6.11  | 30.01   |
| 1Bis(2-chloroisopropyl) ether | 1.987 | 2.205 | 10.050 | 11.01 | 30.01   |
| 14-Methylphenol               | 1.199 | 1.019 | 10.050 | 15.01 | 30.01   |
| 1N-Nitrosodi-n-propylamine *  | 1.274 | 1.229 | 10.050 | 3.61  | 30.01   |
| 1Hexachloroethane             | 0.698 | 0.584 | 10.050 | 16.51 | 30.01   |
| 1Nitrobenzene-d5              | 0.579 | 0.546 | 10.050 | 5.81  | 30.01   |
| 1Nitrobenzene                 | 0.539 | 0.507 | 10.050 | 5.91  | 30.01   |
| 1Isophorone                   | 1.086 | 1.054 | 10.050 | 2.91  | 30.01   |
| 12-Nitrophenol **             | 0.252 | 0.275 | 10.050 | 8.91  | 30.01   |
| 12,4-Dimethylphenol           | 0.455 | 0.386 | 10.050 | 15.31 | 30.01   |
| 1Bis(2-Chloroethoxy)methane   | 0.581 | 0.622 | 10.050 | 7.01  | 30.01   |
| 12,4-Dichlorophenol **        | 0.341 | 0.315 | 10.050 | 7.81  | 30.01   |
| 1Benzoic acid                 | 0.276 | 0.203 | 10.010 | 26.31 | 30.01   |
| 11,2,4-Trichlorobenzene       | 0.393 | 0.329 | 10.050 | 16.41 | 30.01   |
| 1Naphthalene                  | 1.089 | 0.980 | 10.050 | 10.01 | 30.01   |
| 14-Chloroaniline              | 0.452 | 0.414 | 10.050 | 8.31  | 30.01   |
| 1Hexachlorobutadiene **       | 0.242 | 0.187 | 10.050 | 22.61 | 30.01   |
| 14-Chloro-3-methylphenol **   | 0.404 | 0.322 | 10.050 | 20.21 | 30.01   |
| 12-Methylnaphthalene          | 0.699 | 0.644 | 10.050 | 8.01  | 30.01   |
| 1Hexachlorocyclopentadiene *  | 0.321 | 0.302 | 10.050 | 6.01  | 30.01   |
| 12,4,6-Trichlorophenol **     | 0.336 | 0.299 | 10.050 | 10.91 | 30.01   |
| 12,4,5-Trichlorophenol        | 0.390 | 0.349 | 10.050 | 10.41 | 30.01   |
| 12-Fluorobiphenyl             | 1.361 | 1.241 | 10.050 | 8.81  | 30.01   |
| 12-Chloronaphthalene          | 1.179 | 1.113 | 10.050 | 5.61  | 30.01   |
| 12-Nitroaniline               | 0.459 | 0.491 | 10.050 | 6.91  | 30.01   |
| 1Dimethyl phthalate           | 1.488 | 1.484 | 10.050 | 0.31  | 30.01   |
| 12,6-Dinitrotoluene           | 0.337 | 0.360 | 10.050 | 7.11  | 30.01   |
| 1Acenaphthylene               | 1.685 | 1.667 | 10.050 | 1.11  | 30.01   |
| 13-Nitroaniline               | 0.306 | 0.302 | 10.050 | 1.31  | 30.01   |
| 1Acenaphthene **              | 1.177 | 1.126 | 10.050 | 4.31  | 30.01   |
| 12,4-Dinitrophenol *          | 0.147 | 0.169 | 10.050 | 14.81 | 30.01   |
| 14-Nitrophenol *              | 0.321 | 0.243 | 10.050 | 24.11 | 30.01   |
| 12,4-Dinitrotoluene           | 0.438 | 0.448 | 10.050 | 2.21  | 30.01   |
| 1Dibenzofuran                 | 1.549 | 1.341 | 10.050 | 17.41 | 30.01   |

Data File: /chem/msd3.1/3-062796.b/BNA0101001.d  
 Report Date: 28-Jun-1996 08:39

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EcoSys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 27-JUN-1996 15:35  
 Lab File ID: BNA0101001.d Init. Calibration Dates: 03/10/93 06/14/96  
 Analysis Type: WATER Init. Calibration Times: 11:35 12:12  
 Lab Sample ID: Method File: /chem/msd3.1/3-062796.b/MA-BNA\_2.m

| COMPOUND                     | RRF   | RF80  | RRF   | %D   | %D      |
|------------------------------|-------|-------|-------|------|---------|
| 14-Chlorophenyl phenyl ether | 0.601 | 0.501 | 0.050 | 16.6 | 30.0    |
| 1Fluorene                    | 1.255 | 1.112 | 0.050 | 11.4 | 30.0    |
| 14-Nitroaniline              | 0.185 | 0.231 | 0.050 | 24.5 | 30.0    |
| 14,6-Dinitro-2-methylphenol  | 0.170 | 0.172 | 0.050 | 1.2  | 30.0    |
| 1N-Nitrosodiphenylamine **   | 0.304 | 0.352 | 0.050 | 15.9 | 30.0    |
| 11,2-Diphenylhydrazine       | 2.440 | 2.499 | 0.050 | 2.4  | 30.0    |
| 12,4,6-Tribromophenol        | 0.250 | 0.206 | 0.050 | 17.4 | 30.0    |
| 14-Bromophenyl phenyl ether  | 0.270 | 0.247 | 0.050 | 8.7  | 30.0    |
| 1Hexachlorobenzene           | 0.335 | 0.294 | 0.050 | 12.4 | 30.0    |
| 1Pentachlorophenol **        | 0.181 | 0.143 | 0.050 | 20.9 | 30.0    |
| 1Phenanthrene                | 1.140 | 1.134 | 0.050 | 0.5  | 30.0    |
| 1Anthracene                  | 1.089 | 1.072 | 0.050 | 1.6  | 30.0    |
| 1Carbazole                   | 0.286 | 0.449 | 0.050 | 56.9 | 30.0 <- |
| 1Di-n-butyl phthalate        | 1.836 | 1.819 | 0.050 | 0.9  | 30.0    |
| 1Fluoranthene **             | 1.219 | 1.080 | 0.050 | 11.4 | 30.0    |
| 1Pyrene                      | 1.468 | 1.504 | 0.050 | 2.4  | 30.0    |
| 1Terphenyl-d14               | 0.977 | 1.012 | 0.050 | 3.6  | 30.0    |
| 1Butyl benzyl phthalate      | 0.906 | 1.047 | 0.050 | 15.5 | 30.0    |
| 1Dioctyl adipate             | 0.645 | 0.752 | 0.050 | 16.5 | 30.0    |
| 13,3'-Dichlorobenzidine      | 0.162 | 0.064 | 0.050 | 60.4 | 30.0 <- |
| 1Bis(2-ethylhexyl) phthalate | 1.256 | 1.374 | 0.050 | 9.4  | 30.0    |
| 1Benz(a)anthracene           | 1.217 | 1.240 | 0.050 | 1.9  | 30.0    |
| 1Chrysene                    | 1.046 | 1.068 | 0.050 | 2.2  | 30.0    |
| 1Di-n-octyl phthalate **     | 2.664 | 2.999 | 0.050 | 12.6 | 30.0    |
| 1Benzo(b)fluoranthene        | 1.515 | 1.555 | 0.050 | 2.6  | 30.0    |
| 1Benzo(k)fluoranthene        | 1.301 | 1.281 | 0.050 | 1.5  | 30.0    |
| 1Benzo(a)pyrene **           | 1.267 | 1.293 | 0.050 | 2.0  | 30.0    |
| 1Indeno(1,2,3-cd)pyrene      | 1.198 | 1.122 | 0.050 | 6.4  | 30.0    |
| 1Dibenz(a,h)anthracene       | 1.084 | 1.067 | 0.050 | 1.6  | 30.0    |
| 1Benzo(g,h,i)perylene        | 1.161 | 1.064 | 0.050 | 8.3  | 30.0    |

EcoSys, Inc.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd3.i  
Lab File ID: BNA0101001.d  
Lab Sample ID:  
Analysis Type: SV  
Method File: /chem/msd3.1/3-062796.b/MA-BNA\_2.m  
Misc Info: CONT CAL 80UG/ML

Calibration Date: 06/27/96  
Calibration Time: 1628  
Sample Type: WATER  
Level: LOW

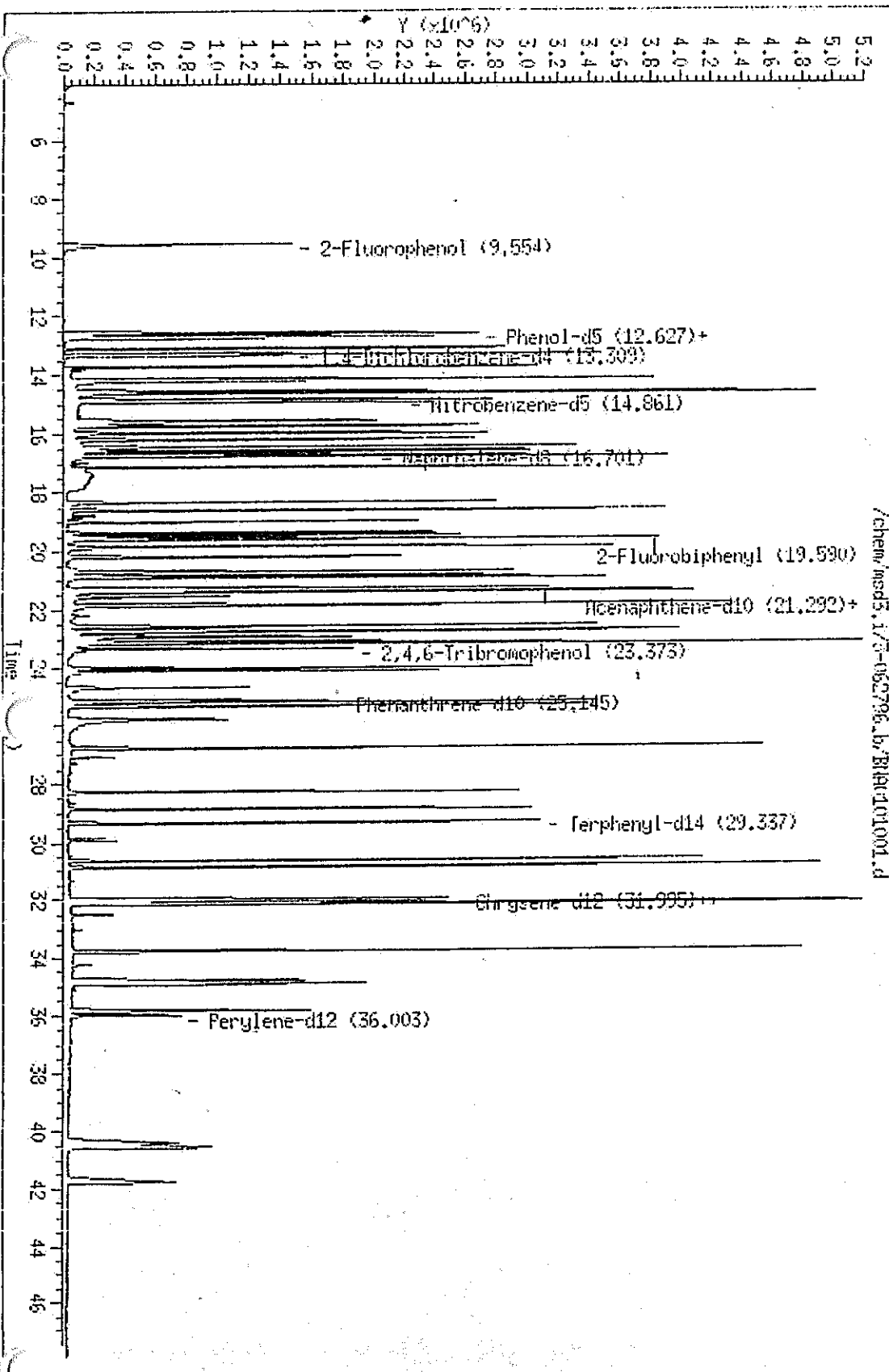
| COMPOUND               | STANDARD | AREA LIMIT |         | SAMPLE  | % DIFF |
|------------------------|----------|------------|---------|---------|--------|
|                        |          | LOWER      | UPPER   |         |        |
| 8 1,4-Dichlorobenzene- | 548945   | 274472     | 1097890 | 548945  | 0.00   |
| 26 Naphthalene-d8      | 1918766  | 959383     | 3837532 | 1918766 | 0.00   |
| 42 Acenaphthene-d10    | 1130774  | 565387     | 2261548 | 1130774 | 0.00   |
| 59 Phenanthrene-d10    | 1499246  | 749623     | 2998492 | 1499246 | 0.00   |
| 72 Chrysene-d12        | 1126063  | 563031     | 2252126 | 1126063 | 0.00   |
| 78 Perylene-d12        | 922950   | 461475     | 1845900 | 922950  | 0.00   |

| COMPOUND               | STANDARD | RT LIMIT |       | SAMPLE | % DIFF |
|------------------------|----------|----------|-------|--------|--------|
|                        |          | LOWER    | UPPER |        |        |
| 8 1,4-Dichlorobenzene- | 13.31    | 12.81    | 13.81 | 13.31  | 0.00   |
| 26 Naphthalene-d8      | 16.70    | 16.20    | 17.20 | 16.70  | 0.00   |
| 42 Acenaphthene-d10    | 21.29    | 20.79    | 21.79 | 21.29  | 0.00   |
| 59 Phenanthrene-d10    | 25.14    | 24.64    | 25.64 | 25.14  | 0.00   |
| 72 Chrysene-d12        | 32.02    | 31.52    | 32.52 | 32.02  | 0.00   |
| 78 Perylene-d12        | 36.00    | 35.50    | 36.50 | 36.00  | 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/msd3.1/3-062796.b/BH40101001.d  
 Date: 27-JUN-1996 15:35  
 Instrument: msd3.1  
 Sample ID:  
 Column phase:  
 Volume injected (ul): 1.0

Column diameter: 0.20

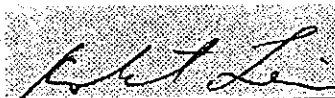


# SemiVolatile Method Blank Summary

|                         |                             |
|-------------------------|-----------------------------|
| Lab Name: EcoSys, Inc.  | Client: ACE-SAD             |
| Ledger No(s): 107811    | Extraction Method No.: 3510 |
| Batch No(s): 062496A    | Date Extracted: 6/24/96     |
| Lab File ID: BNA0201002 | Date Analyzed: 6/27/96      |
| Lab Sample ID: AB34963  | Time Analyzed: 16:30        |
| Cleanup Method: NA      | Level: Low                  |
| Instrument ID: MSD-3    | Matrix: Water               |

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

|    | Client<br>Sample No. | Lab<br>Sample ID | Lab<br>File ID | Date<br>Analyzed |
|----|----------------------|------------------|----------------|------------------|
| 1  | NA                   | AB35002 LCS      | BNA0301003     | 6/27/96          |
| 2  | NA                   | AB35000 MS       | BNA0501005     | 6/27/96          |
| 3  | NA                   | AB35001 MSD      | BNA0601006     | 6/27/96          |
| 4  |                      |                  |                |                  |
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QA/QC Officer

Comments:

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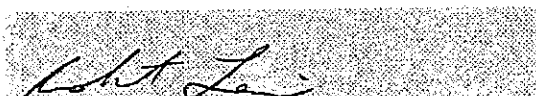
---

# SemiVolatile Method Blank Summary

|                         |                             |
|-------------------------|-----------------------------|
| Lab Name: EcoSys, Inc.  | Client: ACE-SAD             |
| Ledger No(s): 107811    | Extraction Method No.: 3510 |
| Batch No(s): 0627960001 | Date Extracted: 6/27/96     |
| Lab File ID: BNA1401014 | Date Analyzed: 6/29/96      |
| Lab Sample ID: AB35458  | Time Analyzed: 3:12         |
| Cleanup Method: NA      | Level: Low                  |
| Instrument ID: MSD-3    | Matrix: Water               |

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

|    | Client<br>Sample No. | Lab<br>Sample ID | Lab<br>File ID | Date<br>Analyzed |
|----|----------------------|------------------|----------------|------------------|
| 1  | 241-T1-GW            | AB34959 RE       | BNA1501015     | 6/29/96          |
| 2  |                      |                  |                |                  |
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 QA/QC Officer

Comments:

RE-Sample was re-extracted.

## SemiVolatile MS/MSD Recovery

Lab Name: EcoSys, Inc.

Client: ACE SAD

Ledger No(s): 107811

Matrix Spike/MS Dup: AB35000 MS

Batch No(s): 062496A

AB35001 MSD

Lab File ID: BNA0501005/BNA0601006

AB34965 REF

| Compound                   | Spike Added<br>(ug/L) | Sample<br>Conc<br>(ug/L) | MS<br>Conc<br>(ug/L) | MS %<br>Recovery | # | QC Limits<br>Recovery |
|----------------------------|-----------------------|--------------------------|----------------------|------------------|---|-----------------------|
| Phenol                     | 345                   | ND                       | 49                   | 14               |   | 12-110                |
| 2-Chlorophenol             | 345                   | ND                       | 144                  | 42               |   | 27-123                |
| 1,4-Dichlorobenzene        | 172                   | ND                       | 70                   | 41               |   | 36-97                 |
| N-Nitroso-di-n-propylamine | 172                   | ND                       | 79                   | 46               |   | 41-116                |
| 1,2,4-Trichlorobenzene     | 172                   | ND                       | 70                   | 40               |   | 39-98                 |
| 4-Chloro-3-methylphenol    | 345                   | ND                       | 186                  | 54               |   | 23-97                 |
| Acenaphthene               | 172                   | ND                       | 87                   | 51               |   | 46-118                |
| 4-Nitrophenol              | 345                   | ND                       | 57                   | 17               |   | 10-80                 |
| 2,4-Dinitrotoluene         | 172                   | ND                       | 100                  | 58               |   | 24-96                 |
| Pentachlorophenol          | 345                   | ND                       | 242                  | 70               |   | 9-103                 |
| Pyrene                     | 172                   | ND                       | 123                  | 72               |   | 26-127                |

| Compound                   | Spike Added<br>(ug/L) | MSD<br>Conc<br>(ug/L) | MSD %<br>Recovery | # | % RPD | # | QC Limits<br>RPD | Recovery |
|----------------------------|-----------------------|-----------------------|-------------------|---|-------|---|------------------|----------|
| Phenol                     | 345                   | 71                    | 20                |   | 36    |   | 42               | 12-110   |
| 2-Chlorophenol             | 345                   | 188                   | 54                |   | 27    |   | 40               | 27-123   |
| 1,4-Dichlorobenzene        | 172                   | 89                    | 52                |   | 24    |   | 28               | 36-97    |
| N-Nitroso-di-n-propylamine | 172                   | 106                   | 62                |   | 29    |   | 38               | 41-116   |
| 1,2,4-Trichlorobenzene     | 172                   | 92                    | 53                |   | 28    |   | 28               | 39-98    |
| 4-Chloro-3-methylphenol    | 345                   | 226                   | 66                |   | 19    |   | 42               | 23-97    |
| Acenaphthene               | 172                   | 108                   | 63                |   | 21    |   | 31               | 46-118   |
| 4-Nitrophenol              | 345                   | 76                    | 22                |   | 29    |   | 50               | 10-80    |
| 2,4-Dinitrotoluene         | 172                   | 110                   | 64                |   | 10    |   | 38               | 24-96    |
| Pentachlorophenol          | 345                   | 300                   | 87                |   | 21    |   | 50               | 9-103    |
| Pyrene                     | 172                   | 140                   | 81                |   | 13    |   | 31               | 26-127   |

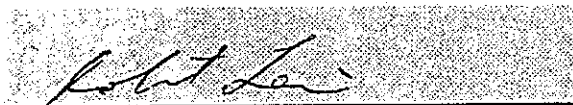
# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

ND = Not Detected

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits



QA/QC Officer

Comments:

# SemiVolatile LCS Recovery

|                         |                                |
|-------------------------|--------------------------------|
| Lab Name: EcoSys, Inc.  | Client: ACE SAD                |
| Ledger No(s): 107811    | Lab Control Spike: AB35002 LCS |
| Batch No(s): 062496A    |                                |
| Lab File ID: BNA0301003 |                                |

| Compound                   | Spike Added<br>(ug/L) | Sample<br>Conc<br>(ug/L) | LCS<br>Conc<br>(ug/L) | LCS %<br>Recovery | # | QC Limits<br>Recovery |
|----------------------------|-----------------------|--------------------------|-----------------------|-------------------|---|-----------------------|
| Phenol                     | 100                   | NR                       | 25                    | 25                |   | 12-110                |
| 2-Chlorophenol             | 100                   | NR                       | 68                    | 68                |   | 27-123                |
| 1,4-Dichlorobenzene        | 50                    | NR                       | 31                    | 63                |   | 36-97                 |
| N-Nitroso-di-n-propylamine | 50                    | NR                       | 36                    | 72                |   | 41-116                |
| 1,2,4-Trichlorobenzene     | 50                    | NR                       | 32                    | 64                |   | 39-98                 |
| 4-Chloro-3-methylphenol    | 100                   | NR                       | 74                    | 74                |   | 23-97                 |
| Acenaphthene               | 50                    | NR                       | 36                    | 72                |   | 46-118                |
| 4-Nitrophenol              | 100                   | NR                       | 23                    | 23                |   | 10-80                 |
| 2,4-Dinitrotoluene         | 50                    | NR                       | 38                    | 76                |   | 24-96                 |
| Pentachlorophenol          | 100                   | NR                       | 87                    | 87                |   | 9-103                 |
| Pyrene                     | 50                    | NR                       | 40                    | 80                |   | 26-127                |

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

\* Values outside of QC limits

ND = Not Detected

NR = Not Required

Spike Recovery: 0 out of 11 outside limits



QA/QC Officer

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### SemiVolatile Surrogate Recovery (Water)

|                        |                 |
|------------------------|-----------------|
| Lab Name: EcoSys, Inc. | Client: ACE-SAD |
| Ledger No(s): 107811   | Level: Low      |
| Batch No.(s): 062496A  |                 |

[illegible]

# Column used to flag recovery values  
\* = Values outside of required QC limits  
ND = Not Detected

|                               | QC Limits |
|-------------------------------|-----------|
| S1 (2FP) 2-Fluorophenol       | 21-110    |
| S2 (PHL) Phenol-d5            | 10-110    |
| S3 (NBZ) Nitrobenzene-d5      | 35-114    |
| S4 (FBP) 2-Fluorobiphenyl     | 43-116    |
| S5 (TBP) 2,4,6-Tribromophenol | 10-123    |
| S6 (TPH) Terphenyl-d14        | 33-141    |

*Robert L. Lane*  
QA/QC Officer

**Comments:**

### SemiVolatile Surrogate Recovery (Water)

Lab Name: EcoSys, Inc.

Client: ACE-SAD

Ledger No(s): 107811

Level: Low

Batch No.(s): 0627960001

[illegible]

# Column used to flag recovery values

\* = Values outside of required QC limits.

ND = Not Detected

|                               | QC Limits |
|-------------------------------|-----------|
| S1 (2FP) 2-Fluorophenol       | 21-110    |
| S2 (PHL) Phenol-d5            | 10-110    |
| S3 (NBZ) Nitrobenzene-d5      | 35-114    |
| S4 (FBP) 2-Fluorobiphenyl     | 43-116    |
| S5 (TBP) 2,4,6-Tribromophenol | 10-123    |
| S6 (TPH) Terphenyl-d14        | 33-141    |

QA/QC Officer

**Comments:**

\*Surrogates are outside QC limits.

# External Standard Report

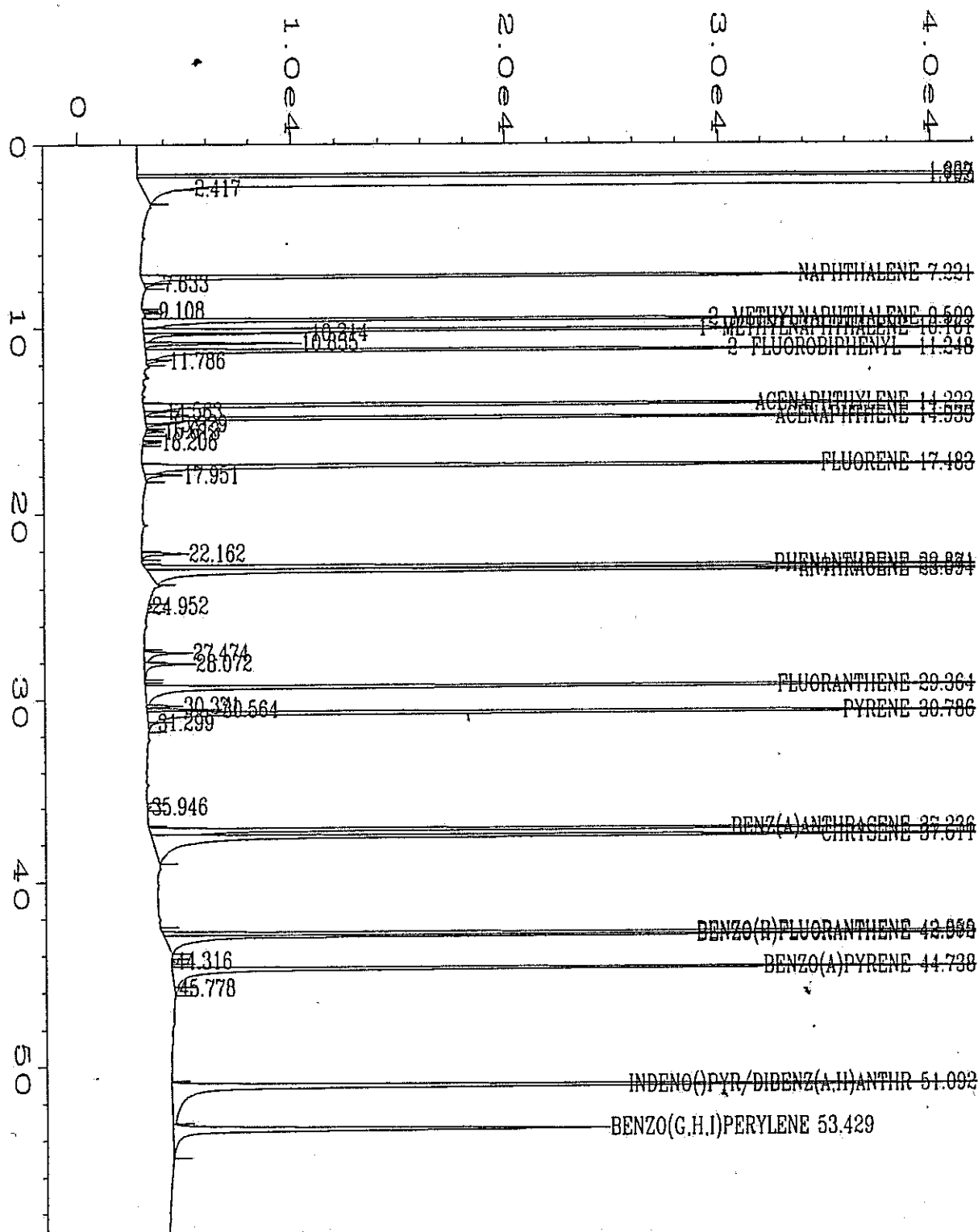
```

Data File Name      : C:\HPCHEM\1\DATA\PA062696\20626R02.D
Operator           : Doug Anderson
Sample Name        : GC2
Sample Name        : 200 pah ccv
Run Time Bar Code  :
Acquired on       : 26 Jun 96 02:11 PM
Report Created on  : 22 Jul 96 03:03 PM
Last Recalib on   : 16 MAY 96 02:21 PM
Multiplier        : 1

Page Number       : 1
Vial Number       : 2
Injection Number   : 1
Sequence Line     : 1
Instrument Method  : P1053096.MTH
Analysis Method    : P2053096.MTH
Sample Amount      : 0
ISTD Amount        :
  
```

Sig. 2 in C:\HPCHEM\1\DATA\PA062696\20626R02.D

| Ret Time | Area         | Type | Width | Ref# | ppb      | Name                               |
|----------|--------------|------|-------|------|----------|------------------------------------|
| 7.221    | 1227789      | BV   | 0.059 | 1    | 204.674  | NAPHTHALENE                        |
| 9.599    | 1071732      | BV   | 0.062 | 1    | 205.890  | 2-METHYLNAPHTHALENE                |
| 10.161   | 1209674      | VV   | 0.061 | 1    | 205.573  | 1-METHYLNAPHTHALENE                |
| 11.248   | 1092609      | VV   | 0.062 | 1    | 205.033  | 2-FLUOROBIPHENYL                   |
| 14.223   | 1229758      | BV   | 0.065 | 1    | 205.621  | ACENAPHTHYLENE                     |
| 14.939   | 1210875      | VV   | 0.064 | 1    | 207.060  | ACENAPHTHENE                       |
| 17.483   | 1208203      | BV   | 0.068 | 1    | 203.033  | FLUORENE                           |
| 22.871   | 1146040      | BV   | 0.070 | 1    | 195.715  | PHENANTHRENE                       |
| 23.094   | 1066141      | VV   | 0.074 | 1    | 191.505  | ANTHRACENE                         |
| 29.364   | 1110429      | BV   | 0.076 | 1    | 190.754  | FLUORANTHENE                       |
| 30.786   | 1079407      | VV   | 0.081 | 1    | 186.413  | PYRENE                             |
| 37.236   | 724930       | BV   | 0.082 | 1    | 168.806  | BENZ (A) ANTHRACENE                |
| 37.611   | 789493       | VV   | 0.083 | 1    | 185.489  | CHRYSENE                           |
| 42.855   | 485904       | BV   | 0.087 | 1    | 155.642  | BENZO (B) FLUORANTHENE             |
| 2.972    | 528379       | VV   | 0.082 | 1    | 164.819  | BENZO (K) FLUORANTHENE             |
| 1.738    | 395215       | PV   | 0.101 | 1    | 144.634  | BENZO (A) PYRENE                   |
| 51.092   | 470325       | BV   | 0.168 | 1    | 282.315  | INDENO ( ) PYR/DIBENZ (A, H) ANTHR |
| 53.429   | 247417       | VB   | 0.181 | 1    | 135.236  | BENZO (G, H, I) PERYLENE           |
| 1.637    | 4.67284E+008 | BH S | 0.079 |      | 4.7E+008 | * uncalibrated *                   |
| 1.792    | 4.64428E+008 | HB S | 0.095 |      | 4.6E+008 | * uncalibrated *                   |
| 2.417    | 916          | BB T | 0.031 |      | 915.576  | * uncalibrated *                   |
| 7.633    | 5237         | VB   | 0.085 |      | 5237.401 | * uncalibrated *                   |
| 9.108    | 2849         | BB   | 0.064 |      | 2849.205 | * uncalibrated *                   |
| 10.314   | 51297        | VV   | 0.093 |      | 51297.24 | * uncalibrated *                   |
| 10.855   | 46916        | VV   | 0.101 |      | 46915.79 | * uncalibrated *                   |
| 11.786   | 6196         | VV   | 0.085 |      | 6195.790 | * uncalibrated *                   |
| 14.563   | 7188         | VV   | 0.099 |      | 7187.599 | * uncalibrated *                   |
| 15.229   | 7237         | VB   | 0.090 |      | 7237.036 | * uncalibrated *                   |
| 15.613   | 4269         | BB   | 0.077 |      | 4268.900 | * uncalibrated *                   |
| 16.206   | 3565         | BB   | 0.064 |      | 3565.156 | * uncalibrated *                   |
| 17.951   | 11656        | VB   | 0.094 |      | 11655.70 | * uncalibrated *                   |
| 22.162   | 15537        | BB   | 0.110 |      | 15537.03 | * uncalibrated *                   |
| 24.952   | 1655         | BB   | 0.131 |      | 1654.663 | * uncalibrated *                   |
| 27.474   | 22075        | BV   | 0.133 |      | 22074.75 | * uncalibrated *                   |
| 28.072   | 20483        | VB   | 0.117 |      | 20482.94 | * uncalibrated *                   |
| 30.371   | 9426         | VV   | 0.082 |      | 9425.500 | * uncalibrated *                   |
| 30.564   | 17930        | VV   | 0.079 |      | 17930.35 | * uncalibrated *                   |
| 31.299   | 4578         | VB   | 0.145 |      | 4578.474 | * uncalibrated *                   |
| 35.946   | 1140         | BB   | 0.091 |      | 1140.429 | * uncalibrated *                   |
| 44.316   | 959          | BV   | 0.081 |      | 959.219  | * uncalibrated *                   |
| .778     | 2929         | VB   | 0.195 |      | 2928.684 | * uncalibrated *                   |



|                    |                                        |                   |                |
|--------------------|----------------------------------------|-------------------|----------------|
| Data File Name     | : C:\HPCHEM\1\DATA\PA062696\20626R02.D | Page Number       | : 1            |
| Operator           | : Doug Anderson                        | Vial Number       | : 2            |
| Instrument         | : GC2                                  | Injection Number  | : 1            |
| Sample Name        | : 200 pah ccv                          | Sequence Line     | : 1            |
| Run Time Bar Code: |                                        | Instrument Method | : P1053096.MTH |
| Acquired on        | : 26 Jun 96 02:11 PM                   | Analysis Method   | : P2053096.MTH |
| Report Created on  | : 22 Jul 96 03:03 PM                   | Sample Amount     | : 0            |
| Last Recalib on    | : 16 MAY 96 02:21 PM                   | ISTD Amount       | :              |
| Multiplier         | : 1                                    |                   |                |

# PAH/PNA Method Blank Summary

|                        |                        |
|------------------------|------------------------|
| Lab Name: EcoSys, Inc. | Client: ACE-SAD        |
| Ledger No(s): 107811   |                        |
| Batch No: 06269600     | Date Analyzed: 6/26/96 |
| Lab File ID: 20626R04  | Time Analyzed: 5:34 PM |
| Lab Sample ID: AB34964 | Level: Low             |
| Instrument ID: GC2     | Matrix: Soil           |

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

|    | Client<br>Sample No. | Lab<br>Sample ID | Lab<br>File ID | Date<br>Analyzed |
|----|----------------------|------------------|----------------|------------------|
| 1  | NA                   | AB35121 LCS      | 20626R05       | 6/26/96          |
| 2  | NA                   | AB35119 MS       | 20626R07       | 6/26/96          |
| 3  | NA                   | AB35120 MSD      | 20626R08       | 6/26/96          |
| 4  | 243-T1-S1            | AB34961          | 20626R09       | 6/26/96          |
| 5  |                      |                  |                |                  |
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| 24 |                      |                  |                |                  |

NA: Not Applicable

  
 QA/QC Officer

Comments:

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# General Chemistry Method Blank Summary

Lab Name: EcoSys, Inc.  
 Ledger: 107811  
 Lab Sample ID: AB34964

Client: ACESAD

Client Sample ID: Method Blank

|    | ANALYTE            | BLANK<br>VALUE | MDL<br>mg/Kg | DATE<br>ANALYZED |
|----|--------------------|----------------|--------------|------------------|
| 1  | Oil & Grease 413.2 | <MDL           | 5.0          | 6/25/96          |
| 2  |                    |                |              |                  |
| 3  |                    |                |              |                  |
| 4  |                    |                |              |                  |
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| 23 |                    |                |              |                  |
| 24 |                    |                |              |                  |

*[Signature]*

QA/QC Officer

Comments:

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# General Chemistry LCS/LCSD Recovery

|                        |                |
|------------------------|----------------|
| Lab Name: EcoSys, Inc. | Client: ACESAD |
| Ledger No(s): 107811   |                |

## LCS

|              | Spike Added<br>mg/Kg | Sample Conc.<br>mg/Kg | LCS Conc.<br>mg/Kg | LCS %<br>Recovery | QC Limits<br>Required |
|--------------|----------------------|-----------------------|--------------------|-------------------|-----------------------|
| Oil & Grease | 196.5                | NR                    | 197.4              | 100               | 80-120                |

## LCSD

|              | LCSD Conc.<br>mg/Kg | LCSD %<br>Recovery | % RPD | % RPD<br>Limits |
|--------------|---------------------|--------------------|-------|-----------------|
| Oil & Grease | 194.4               | 99                 | 1.5   | 20              |

NR = Not Required

ND = Not Detected

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



QA/QC Officer

Comments:

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

District - SAVANNAH FT. STEWART ARMY AF  
Date Received - 96/06/21 Requisition - PMS-96-109  
Date Reported - 96/07/09 08:48:04 Work Order - 7996 Job Number - 3959

-----

| Lab # | Field ID  | Date Sampled | Time Sampled |
|-------|-----------|--------------|--------------|
| ----- | -----     | -----        | -----        |
| 29329 | 241-T1-GW | 96/06/19     | 17:05        |

| Test Performed              | Result | Units | Tested By | Test Date |
|-----------------------------|--------|-------|-----------|-----------|
| -----                       | -----  | ----- | -----     | -----     |
| AROMATIC VOLATILE ORGANICS  | *      |       | ECO       | 96/06/26  |
| SEMIVOLATILE ORGANICS GC/MS | *      |       | ECO       | 96/06/29  |

\*NOTE: See Attached

Sampled by District Personnel

Checked by: BT

Signed by:

*Blaise Willis*  
Blaise Willis  
Chemist

et 1 of 4

Lab #    Field ID  
-----  
330    TRIP BK #2

Date Sampled  
-----  
96/06/19

Time Sampled  
-----  
00:00

Test Performed  
-----  
AROMATIC VOLATILE ORGANICS

Result                      Units  
-----  
\*

Tested                      Test  
By                              Date  
-----  
ECO                            96/06/26

\*NOTE: See Attached

Sampled by District Personnel

Checked by: BT

Signed by:

*Blaise Willis*

Blaise Willis  
Chemist

et 2 of 4

Lab # Field ID  
-----  
331 243-T1-S1

Date Sampled  
-----  
96/06/20

Time Sampled  
-----  
10:00

| Test Performed<br>-----    | Result<br>----- | Units<br>----- | Tested<br>By<br>----- | Test<br>Date<br>----- |
|----------------------------|-----------------|----------------|-----------------------|-----------------------|
| TOTAL SOLIDS, % OF WET     | 85.60           | %              | ECO                   | 96/06/26              |
| AROMATIC VOLATILE ORGANICS | *               |                | ECO                   | 96/07/01              |
| PAH'S                      | *               |                | ECO                   | 96/06/26              |
| OIL AND GREASE (INFRARED)  | 1000.0          | MG/KG          | ECO                   | 96/06/25              |

\*NOTE: See Attached

Sampled by District Personnel

Checked by: BT

Signed by:

*Blaise Willis*

Blaise Willis  
Chemist

Set 3 of 4

Lab #    Field ID  
-----  
332    TRIP BK #3

Date Sampled  
-----  
96/06/20

Time Sampled  
-----  
00:00

Test Performed  
-----  
AROMATIC VOLATILE ORGANICS

Result            Units  
-----  
                 \*

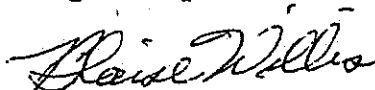
Tested            Test  
By                Date  
-----  
ECO              96/06/26

\*NOTE: See Attached

Sampled by District Personnel

Checked by: PT

Signed by:



Blaise Willis  
Chemist

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

DATE: 6/21/96

Number of coolers 2 Returned cooler(s) to: \_\_\_\_\_

PROJECT: Ft. Stewart W.O.# \_\_\_\_\_ JOB# 3959

Coolers(s) opened by (print name) Becky Serbin (sign) Becky Serbin

1. Did cooler come with shipping slip? ☒ yes ☐ no  
If yes, enter Tracking Number here Grayhound 1511034272
2. Were custody seals on out side of cooler? ☒ yes ☐ no  
How many? 4 Date on seal(s) 6/19/96 Name on seal(s) unknown
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: <sup>one</sup> cooler 20°C / 4°C
7. Describe cooler packing: ice
8. Did all sample containers arrive unbroken? ☒ yes ☐ no
9. Were the sample containers sealed in separate plastic bags? ☒ yes ☐ no
10. Were labels on containers in good condition and agree with Custody paper? ☒ yes ☐ no
11. Were correct containers used for the test(s) indicated? ☒ yes ☐ no
12. Were correct preservatives added to sample(s)? ☒ yes ☐ no ☐ unk
13. Was a sufficient amount of sample sent for test? ☒ yes ☐ no
14. Were bubbles absent in Volatile sample(s)? ☐ yes ☒ no ☐ N/A  
If no, list field ID# trip blank
15. Numbers of days from sample date, samples received in Lab 2
16. Number of Samples: 4 Sample Type: ☒ soil ☒ water ☐ other \_\_\_\_\_
- SAMPLE ANALYSIS PERFORMED BY: ECOSYS TAT normal
- COMMENTS: \_\_\_\_\_

17. Did you sign custody papers in the appropriate place? ☒ yes ☐ no

LAB NUMBER(S): 29329-32

SIGNATURE: Becky Serbin

# THE UNIVERSITY OF CHICAGO

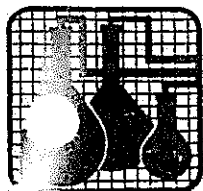
10-28-11

[illegible]

# CHALLENGE YOUR FREEDOM

Page 2 of 11

[illegible]

**SPECIALIZED ASSAYS, INC.**

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

**ANALYTICAL REPORT**

DIRECTOR U.S. ARMY CORPS ENG. 5394  
CESAD LABORATORY  
611 SOUTH COBB DRIVE  
MARIETTA, GA 30060-3172

Sample Location: 29349 #242-T1-S1  
FT. STEWART

Lab Number: 96-A038067

Sampler: BOBBI THORN

Date Collected: 6/24/96

Date Received: 6/26/96

Time Collected: 12:05

Time Received: 8:30

Sample type: Soil

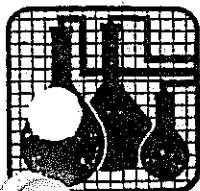
**Reference Data**

Blank 55481SBB  
3 Tune, BNA DF0627B  
Calibration Check, BNA CC0627B

Percent solids: 87.8

**SEMIVOLATILE ORGANICS and PESTICIDE/PCB's**

| Analyte                    | Result | Flag | DF | Units | Date    | Time | Analyst | Method |
|----------------------------|--------|------|----|-------|---------|------|---------|--------|
| Acenaphthene               | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Acenaphthylene             | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Anthracene                 | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Benzo(a)anthracene         | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Benzo(a)pyrene             | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Benzo(b)fluoranthene       | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Benzo(g,h,i)perylene       | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Benzo(k)fluoranthene       | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| 4-Bromophenylphenylether   | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Butylbenzylphthalate       | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Carbazole                  | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| 4-Chloro-3-methylphenol    | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| 4-Chloroaniline            | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| bis(2-Chloroethoxy)methane | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| (2-Chloroethyl)ether       | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| (2-Chloroisopropyl)ether   | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| 2-Chloronaphthalene        | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |

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**ANALYTICAL REPORT**

DIRECTOR U.S. ARMY CORPS ENG. 5394  
CESAD LABORATORY  
611 SOUTH COBB DRIVE  
MARIETTA, GA 30060-3172

Sample Location: 29349 #242-T1-S1  
FT. STEWART

Lab Number: 96-A038067

Sampler: BOBBI THORN

Date Collected: 6/24/96

Date Received: 6/26/96

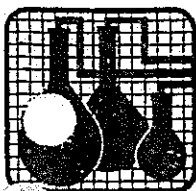
Time Collected: 12:05

Time Received: 8:30

Sample type: Soil

**SEMIVOLATILE ORGANICS and PESTICIDE/PCB's**

| lyte                       | Result | Flag | DF | Units | Date    | Time | Analyst | Method |
|----------------------------|--------|------|----|-------|---------|------|---------|--------|
| 2-Chlorophenol             | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| 4-Chlorophenylphenylether  | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Chrysene                   | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Dibenzofuran               | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Dibenz(a,h)anthracene      | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| 1,2-Dichlorobenzene        | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| 1,3-Dichlorobenzene        | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| 1,4-Dichlorobenzene        | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| 3,3'-Dichlorobenzidine     | 763.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| 2,4-Dichlorophenol         | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Diethylphthalate           | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| 2,4-Dimethylphenol         | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Dimethylphthalate          | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Di-n-butylphthalate        | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| 4,6-Dinitro-2-methylphenol | 945.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| 2,4-Dinitrophenol          | 945.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| 2,4-dinitrotoluene         | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| 2,6-Dinitrotoluene         | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Di-n-octylphthalate        | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Fluoranthene               | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Fluorene                   | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Hexachlorobenzene          | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Hexachlorobutadiene        | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Hexachlorocyclopentadiene  | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |
| Hexachloroethane           | 376.   | U    | 1  | ug/kg | 6/28/96 | 6:17 | G. Baun | 8270B  |

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**ANALYTICAL REPORT**

DIRECTOR U.S. ARMY CORPS ENG. 5394  
CESAD LABORATORY  
611 SOUTH COBB DRIVE  
MARIETTA, GA 30060-3172

Sample Location: 29349 #242-T1-S1  
FT. STEWART

Lab Number: 96-A038067

Sampler: BOBBI THORN

Date Collected: 6/24/96

Date Received: 6/26/96

Time Collected: 12:05

Time Received: 8:30

Sample type: Soil

**SEMIVOLATILE ORGANICS and PESTICIDE/PCB's**

| lyte                       | Result    | Flag | DF | Units | Date    | Time  | Analyst     | Method |
|----------------------------|-----------|------|----|-------|---------|-------|-------------|--------|
| Indeno(1,2,3-cd)pyrene     | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| Isophorone                 | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| 2-Methylnaphthalene        | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| 2-Methylphenol             | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| m,p-Methylphenol           | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| Naphthalene                | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| 2-Nitroaniline             | 945.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| 3-Nitroaniline             | 945.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| 4-Nitroaniline             | 945.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| Nitrobenzene               | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| 2-Nitrophenol              | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| 4-Nitrophenol              | 945.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| N-nitrosodi-n-propylamine  | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| N-nitrosodiphenylamine     | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| Pentachlorophenol          | 945.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| Phenanthrene               | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| Phenol                     | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| Pyrene                     | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| Bis(2-ethylhexyl)phthalate | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| 1,4-Trichlorobenzene       | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| 2,5-Trichlorophenol        | 945.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| 2,4,6-Trichlorophenol      | 376.      | U    | 1  | ug/kg | 6/28/96 | 6:17  | G. Baun     | 8270B  |
| action, BNA,s              | Completed |      |    | ug/kg | 6/27/96 | 14:36 | C. Bardwell | 3550   |

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**ANALYTICAL REPORT**

DIRECTOR U.S. ARMY CORPS ENG. 5394  
CESAD LABORATORY  
611 SOUTH COBB DRIVE  
MARIETTA, GA 30060-3172

Sample Location: 29349 #242-T1-S1  
FT. STEWART

Lab Number: 96-A038067

Sampler: BOBBI THORN

Date Collected: 6/24/96

Date Received: 6/26/96

Time Collected: 12:05

Time Received: 8:30

Sample type: Soil

**UNDERGROUND STORAGE TANK RESULTS**

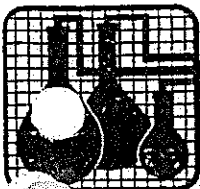
| Analyte                    | Result  | Units | PQL   | Dil<br>Factor | Date    | Time  | Analyst    | Method  |
|----------------------------|---------|-------|-------|---------------|---------|-------|------------|---------|
| Benzene                    | < 0.114 | mg/kg | 0.114 | 1             | 6/28/96 | 2:17  | Holingwrth | 8020    |
| Toluene                    | < 0.114 | mg/kg | 0.114 | 1             | 6/28/96 | 2:17  | Holingwrth | 8020    |
| Ethylbenzene               | < 0.114 | mg/kg | 0.114 | 1             | 6/28/96 | 2:17  | Holingwrth | 8020    |
| Xylenes, total             | < 0.114 | mg/kg | 0.114 | 1             | 6/28/96 | 2:17  | Holingwrth | 8020    |
| Petroleum Hydrocarbons, IR | 441.    | mg/kg | 11.4  | 1             | 6/28/96 | 16:51 | M.Himelick | 418.1 M |

**Sample Extraction Data**

BNA's Extracted 6/27/96 Wt extracted: 30.0 gm Extract Volume: 1.0 ml

**\*\* QUALITY CONTROL DATA \*\*****Surrogate Recoveries**

| Surrogate                    | % Recovery | Target Range |
|------------------------------|------------|--------------|
| GRO Surrogate, soil          | 102.       | 50 - 150     |
| NA Surrogate, Nitrobenzene   | 53.0       | 23 - 120     |
| BNA Surr., 2-Fluorobiphenyl  | 57.0       | 30 - 115     |
| BNA Surrogate, Terphenyl d14 | 81.0       | 18 - 140     |



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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394  
CESAD LABORATORY  
611 SOUTH COBB DRIVE  
MARIETTA, GA 30060-3172

Lab Number: 96-A038067

Sample ID: 29349 #242-T1-S1

Date Collected: 6/24/96

Project: CALL #252

Time Collected: 12:05

Project Name:

Date Received: 6/26/96

Sampler: BOBBI THORN

Time Received: 8:30

State Certification:

Sample Type: Soil

Site I.D.:

\*\*\* QUALITY CONTROL DATA \*\*\*

Surrogate Recoveries

| Surrogate                           | % Recovery | Target Range |
|-------------------------------------|------------|--------------|
| BNA Surrogate, Phenol d5            | 49.0       | 10 - 115     |
| BNA Surrogate, 2-Fluorophenol       | 49.0       | 20 - 121     |
| BNA Surrogate, 2,4,6-Tribromophenol | 90.0       | 19 - 122     |

NOTE:

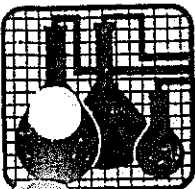
SAMPLE REC'D AT 16 DEG C.

Report Approved By:

*Theodore J. Duello*

Report Date: 7/ 2/96

Theodore J. Duello, Ph.D.  
Michael H. Dunn, M.S.  
Danny B. Hale, M.S.

**SPECIALIZED ASSAYS, INC.**

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Phone 1-615-726-0177

**ANALYTICAL REPORT**

DIRECTOR U.S. ARMY CORPS ENG. 5394  
CESAD LABORATORY  
611 SOUTH COBB DRIVE  
MARIETTA, GA 30060-3172

Sample Location: 29350 TRIP BLANK  
FT. STEWART

Lab Number: 96-A038068

Date Collected: 6/24/96

Date Received: 6/26/96

Time Collected:

Time Received: 8:30

Sampler: BOBBI THORN

Sample type: Water

**UNDERGROUND STORAGE TANK PARAMETERS**

| Conc           | Result  | Units | Quan Limit | Dil Factor | Date    | Time  | Analyst    | Method |
|----------------|---------|-------|------------|------------|---------|-------|------------|--------|
| Benzene        | < 0.001 | mg/l  | 0.001      | 1          | 6/27/96 | 23:10 | Wasilewski | 8020   |
| Toluene        | < 0.001 | mg/l  | 0.001      | 1          | 6/27/96 | 23:10 | Wasilewski | 8020   |
| Ethylbenzene   | < 0.001 | mg/l  | 0.001      | 1          | 6/27/96 | 23:10 | Wasilewski | 8020   |
| Xylenes, total | < 0.001 | mg/l  | 0.001      | 1          | 6/27/96 | 23:10 | Wasilewski | 8020   |

**\*\* QUALITY CONTROL DATA \*\*****Surrogate Recoveries**

| Surrogate          | % Recovery | Target Range |
|--------------------|------------|--------------|
| BTEX/GRD Surrogate | 102.       | 50 - 150     |

**NOTE:**

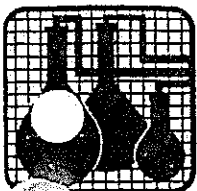
SAMPLE REC'D AT 16 DEG C.

Report Approved By:

*Theodore J. Duello*

Report Date: 7/ 2/96

Theodore J. Duello, Ph.D.  
Michael H. Dunn, M.S.  
Danny B. Hale, M.S.



SPECIALIZED ASSAYS, INC.

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Phone 1-615-726-0177

PROJECT QUALITY CONTROL DATA

DIRECTOR U.S. ARMY CORPS ENG. 5394

Report Number: 96-A038069

Sample I.D.: METHOD BLANK

Lab Project: 46778

Project: CALL #252

Date Received: 6/26/96

\*\*\*\*\*

\*\* UST Spike/Duplicate Results \*\*

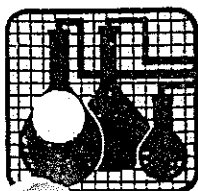
| Compound     | %Recovery | Target Range | Precision<br>RPD | Target Range |
|--------------|-----------|--------------|------------------|--------------|
| Ene QC       | 106.      | 70 - 130     | Not Entered      | 0 - 20       |
| Toluene QC   | 100.      | 70 - 130     | Not Entered      | 0 - 20       |
| 1 benzene QC | 87.       | 70 - 130     | Not Entered      | 0 - 20       |
| ne QC        | 87.       | 70 - 130     | Not Entered      | 0 - 20       |
| TRPH, 418.1  | 103.      | 75 - 125     | Not Entered      | 0 - 25.0     |

\*\* Organics Spike/Duplicate Results \*\*

| Compound                 | %Recovery | Target Range | Precision<br>RPD | Target Range |
|--------------------------|-----------|--------------|------------------|--------------|
| Phenol                   | 85.       | 26 - 90      | 7.3              | 0 - 35       |
| 2-Chlorophenol           | 97.       | 25 - 102     | 8.4              | 0 - 50       |
| 1,4-Dichlorobenzene      | 88.       | 28 - 104     | 9.3              | 0 - 27       |
| Nitroso-di-n-propylamine | 96.       | 41 - 126     | 12.3             | 0 - 38       |
| 1,2,4-Trichlorobenzene   | 118.      | 38 - 107     | 8.8              | 0 - 23       |
| 4-Chloro-3-methylphenol  | 112.      | 26 - 103     | 9.3              | 0 - 33       |
| Acenaphthene             | 114.      | 31 - 137     | 7.4              | 0 - 19       |
| 4-Nitrophenol            | 97.       | 11 - 114     | 10.8             | 0 - 50       |
| 2,4-Dinitrotoluene       | 108.      | 28 - 100     | 10.8             | 0 - 47       |
| Pentachlorophenol        | 121.      | 17 - 109     | 11.3             | 0 - 47       |
| Pyrene                   | 102.      | 35 - 142     | 11.5             | 0 - 36       |

\*\* Semi-Volatile Organics Method Blank Results \*\*\*

| Compound       | Result | Flag | Units | Method |
|----------------|--------|------|-------|--------|
| Acenaphthene   | 330.   | U    | ug/kg | 8270B  |
| Acenaphthylene | 330.   | U    | ug/kg | 8270B  |

**SPECIALIZED ASSAYS, INC.**

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

**PROJECT QUALITY CONTROL DATA**

DIRECTOR U.S. ARMY CORPS ENG. 5394

Report Number: 96-A038069

Sample I.D.: METHOD BLANK

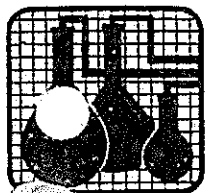
Lab Project: 46778

Project: CALL #252

Date Received: 6/26/96

\*\*\*\*\*  
\*\* Semi-Volatile Organics Method Blank Results \*\*\*

| Compound                    | Result | Flag | Units | Method |
|-----------------------------|--------|------|-------|--------|
| Anthracene                  | 330.   | U    | ug/kg | 8270B  |
| Benzo(a)anthracene          | 330.   | U    | ug/kg | 8270B  |
| Benzo(a)pyrene              | 330.   | U    | ug/kg | 8270B  |
| Benzo(b)fluoranthene        | 330.   | U    | ug/kg | 8270B  |
| Benzo(g,h,i)perylene        | 330.   | U    | ug/kg | 8270B  |
| Benzo(k)fluoranthene        | 330.   | U    | ug/kg | 8270B  |
| Biphenylphenylether         | 330.   | U    | ug/kg | 8270B  |
| Butylbenzylphthalate        | 330.   | U    | ug/kg | 8270B  |
| Carbazole                   | 330.   | U    | ug/kg | 8270B  |
| 4-Chloro-3-methylphenol     | 330.   | U    | ug/kg | 8270B  |
| 4-Chloroaniline             | 330.   | U    | ug/kg | 8270B  |
| bis(2-Chloroethoxy)methane  | 330.   | U    | ug/kg | 8270B  |
| bis(2-Chloroethyl)ether     | 330.   | U    | ug/kg | 8270B  |
| bis(2-Chloroisopropyl)ether | 330.   | U    | ug/kg | 8270B  |
| 2-Chloronaphthalene         | 330.   | U    | ug/kg | 8270B  |
| 2-Chlorophenol              | 330.   | U    | ug/kg | 8270B  |
| 4-Chlorophenylphenylether   | 330.   | U    | ug/kg | 8270B  |
| Chrysene                    | 330.   | U    | ug/kg | 8270B  |
| Dibenzofuran                | 330.   | U    | ug/kg | 8270B  |
| Dibenz(a,h)anthracene       | 330.   | U    | ug/kg | 8270B  |
| 1,2-Dichlorobenzene         | 330.   | U    | ug/kg | 8270B  |
| 1,3-Dichlorobenzene         | 330.   | U    | ug/kg | 8270B  |
| 1,4-Dichlorobenzene         | 330.   | U    | ug/kg | 8270B  |
| 3,3'-Dichlorobenzidine      | 670.   | U    | ug/kg | 8270B  |
| 2,4-Dichlorophenol          | 330.   | U    | ug/kg | 8270B  |
| Diethylphthalate            | 330.   | U    | ug/kg | 8270B  |
| 2,4-Dimethylphenol          | 330.   | U    | ug/kg | 8270B  |
| Dimethylphthalate           | 330.   | U    | ug/kg | 8270B  |
| Di-n-butylphthalate         | 330.   | U    | ug/kg | 8270B  |
| 4,4'-Dinitro-2-methylphenol | 830.   | U    | ug/kg | 8270B  |
| 2,4-Dinitrophenol           | 830.   | U    | ug/kg | 8270B  |
| 4-Nitrotoluene              | 330.   | U    | ug/kg | 8270B  |
| 2,4-Dinitrotoluene          | 330.   | U    | ug/kg | 8270B  |
| Di-n-octylphthalate         | 330.   | U    | ug/kg | 8270B  |



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PROJECT QUALITY CONTROL DATA

DIRECTOR U.S. ARMY CORPS ENG. 5394

Report Number: 96-A038069

Sample I.D.: METHOD BLANK

Lab Project: 46778

Project: CALL #252

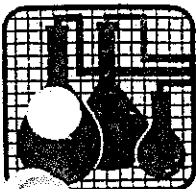
Date Received: 6/26/96

\*\*\*\*\*

\*\* Semi-Volatile Organics Method Blank Results \*\*\*

| Compound                   | Result | Flag | Units | Method |
|----------------------------|--------|------|-------|--------|
| Fluoranthene               | 330.   | U    | ug/kg | 8270B  |
| Fluorene                   | 330.   | U    | ug/kg | 8270B  |
| Heptachlorobenzene         | 330.   | U    | ug/kg | 8270B  |
| Heptachlorobutadiene       | 330.   | U    | ug/kg | 8270B  |
| Hexachlorocyclopentadiene  | 330.   | U    | ug/kg | 8270B  |
| Heptachloroethane          | 330.   | U    | ug/kg | 8270B  |
| Benzo(1,2,3-cd)pyrene      | 330.   | U    | ug/kg | 8270B  |
| Isophorone                 | 330.   | U    | ug/kg | 8270B  |
| 2-Methylnaphthalene        | 330.   | U    | ug/kg | 8270B  |
| 2-Methylphenol             | 330.   | U    | ug/kg | 8270B  |
| m,p-Methylphenol           | 330.   | U    | ug/kg | 8270B  |
| Naphthalene                | 330.   | U    | ug/kg | 8270B  |
| 2-Nitroaniline             | 830.   | U    | ug/kg | 8270B  |
| 3-Nitroaniline             | 830.   | U    | ug/kg | 8270B  |
| 4-Nitroaniline             | 830.   | U    | ug/kg | 8270B  |
| Nitrobenzene               | 330.   | U    | ug/kg | 8270B  |
| 2-Nitrophenol              | 330.   | U    | ug/kg | 8270B  |
| 4-Nitrophenol              | 830.   | U    | ug/kg | 8270B  |
| N-nitrosodi-n-propylamine  | 330.   | U    | ug/kg | 8270B  |
| N-nitrosodiphenylamine     | 330.   | U    | ug/kg | 8270B  |
| Pentachlorophenol          | 830.   | U    | ug/kg | 8270B  |
| Phenanthrene               | 330.   | U    | ug/kg | 8270B  |
| Phenol                     | 330.   | U    | ug/kg | 8270B  |
| Pyrene                     | 330.   | U    | ug/kg | 8270B  |
| Bis(2-ethylhexyl)phthalate | 330.   | U    | ug/kg | 8270B  |
| 1,2,4-Trichlorobenzene     | 330.   | U    | ug/kg | 8270B  |
| 2,4,5-Trichlorophenol      | 830.   | U    | ug/kg | 8270B  |
| 2,4,6-Trichlorophenol      | 330.   | U    | ug/kg | 8270B  |

*Therese J. Daulton*



SPECIALIZED ASSAYS, INC.

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

PROJECT QUALITY CONTROL DATA

DIRECTOR U.S. ARMY CORPS ENG. 5394

Report Number: 96-A038069

Sample I.D.: METHOD BLANK

Lab Project: 46778

Project: CALL #252

Date Received: 6/26/96

\*\*\*\*\*

\*\* Inorganics Method Blank Results \*\*\*

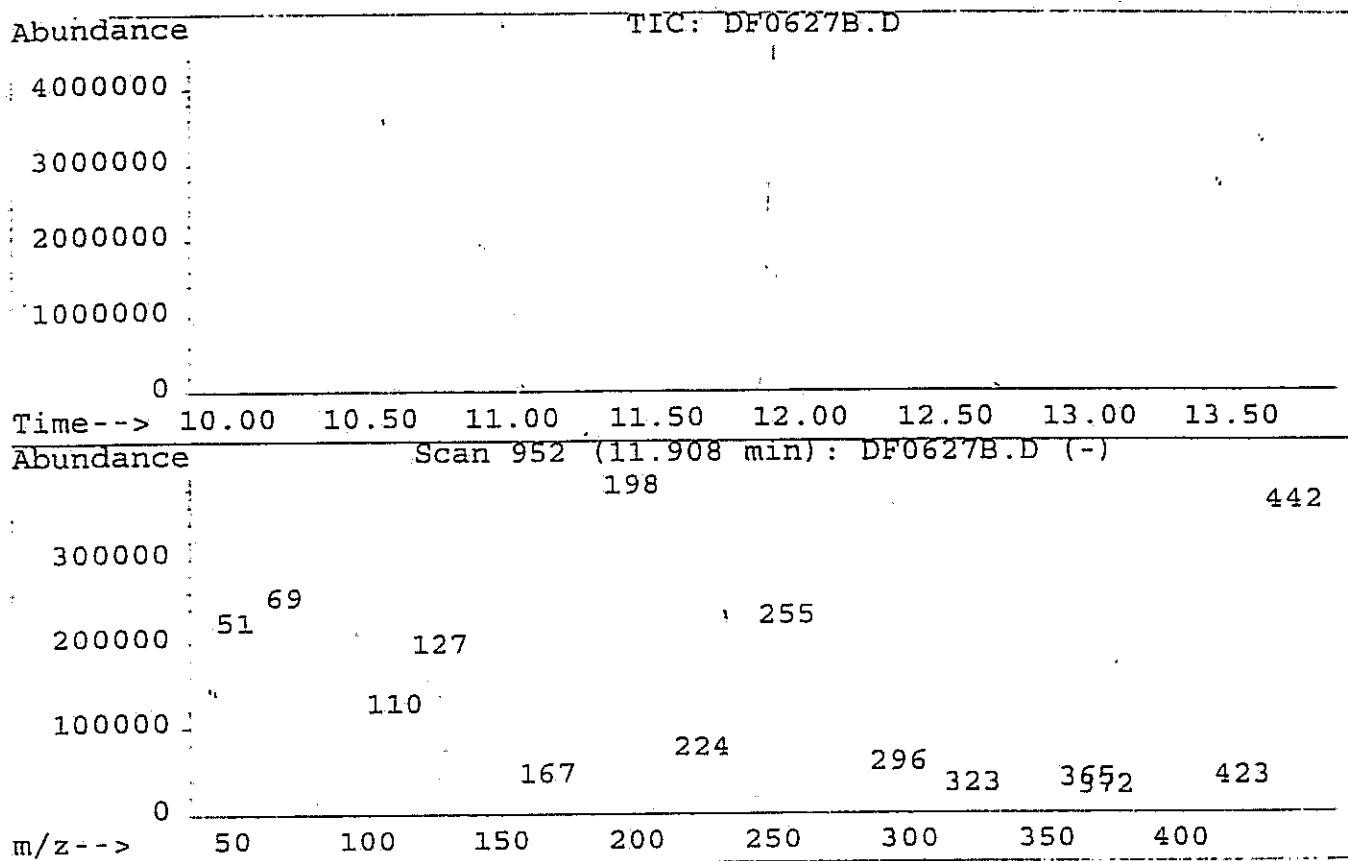
| Compound | Result | Flag | Units | Method |
|----------|--------|------|-------|--------|
|----------|--------|------|-------|--------|

## DFTPP

Data File : C:\HPCHEM\1\DATA\DF0627B.D  
 Acq On : 28 Jun 96 5:06 am  
 Sample : TUNE +  
 Misc :

Vial: 2  
 Operator: HP4  
 Inst : 5972 - In  
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270.M  
 Title : 8270 BNA



Peak Apex is scan: 948

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 51          | 198          | 30           | 60           | 52.6      | 198720  | PASS             |
| 68          | 69           | 0            | 2            | 0.0       | 0       | PASS             |
| 69          | 198          | 0            | 100          | 60.2      | 227776  | PASS             |
| 70          | 69           | 0            | 2            | 0.5       | 1194    | PASS             |
| 127         | 198          | 40           | 60           | 45.7      | 172864  | PASS             |
| 197         | 198          | 0            | 1            | 0.0       | 0       | PASS             |
| 198         | 198          | 100          | 100          | 100.0     | 378096  | PASS             |
| 199         | 198          | 5            | 9            | 7.0       | 26310   | PASS             |
| 275         | 198          | 10           | 30           | 24.9      | 94054   | PASS             |
| 365         | 198          | 1            | 100          | 3.7       | 13913   | PASS             |
| 441         | 443          | 0            | 100          | 88.2      | 55252   | PASS             |
| 442         | 198          | 40           | 100          | 89.8      | 339410  | PASS             |
| 443         | 442          | 17           | 23           | 18.5      | 62678   | PASS             |

# Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\CC0627B.D  
 A-T On : 28 Jun 96 5:41 am  
 Sample : 50 PPM CON CAL  
 Misc :

Vial: 3  
 Operator: HP4  
 Inst : 5972 - In  
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270.M  
 Title : 8270 BNA  
 Last Update : Tue Jun 25 08:48:22 1996  
 Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 62    | -0.02    |
| 2 T   | Pyridine                    | 1.440 | 1.167 | 19.0  | 51    | -0.02    |
| 3 T   | N-Nitrosodimethylamine      | 0.958 | 0.814 | 15.1  | 53    | -0.02    |
| 4 S   | 2-Fluorophenol              | 1.430 | 1.194 | 16.5  | 52    | -0.02    |
| 5 T   | Aniline                     | 1.801 | 1.489 | 17.4  | 52    | -0.02    |
| 6 T   | bis(2-Chloroethyl)ether     | 1.927 | 1.443 | 25.1  | 46    | 0.00     |
| 7 S   | Phenol-d5                   | 1.882 | 1.622 | 13.8  | 54    | -0.02    |
| 8 MC  | Phenol                      | 2.071 | 1.767 | 14.7  | 53    | -0.02    |
| 9 M   | 2-Chlorophenol              | 1.379 | 1.238 | 10.2  | 56    | -0.02    |
| 10 T  | 1,3-Dichlorobenzene         | 1.234 | 1.264 | -2.4  | 65    | -0.02    |
| 11 MC | 1,4-Dichlorobenzene         | 1.832 | 1.680 | 8.3   | 56    | 0.00     |
| 12 T  | Benzyl Alcohol              | 1.385 | 1.373 | 0.8   | 62    | -0.02    |
| 13    | 1,2-Dichlorobenzene         | 1.451 | 1.371 | 5.6   | 59    | -0.02    |
| 14    | bis(2-Chloroisopropyl)ether | 0.413 | 0.357 | 13.6  | 54    | -0.02    |
| 15 T  | 2-Methylphenol              | 1.328 | 1.145 | 13.8  | 54    | -0.02    |
|       | Hexachloroethane            | 0.623 | 0.600 | 3.7   | 60    | -0.02    |
| 16 MP | N-Nitroso-di-n-propylamine  | 1.243 | 1.101 | 11.4  | 55    | 0.00     |
| 18 T  | 3&4-Methylphenol            | 1.738 | 1.515 | 12.8  | 54    | -0.02    |
| 19 I  | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 59    | -0.02    |
| 20 S  | Nitrobenzene-d5             | 0.484 | 0.481 | 0.8   | 60    | 0.00     |
| 21 T  | Nitrobenzene                | 0.442 | 0.457 | -3.3  | 61    | -0.02    |
| 22 T  | Isophorone                  | 0.814 | 0.756 | 7.1   | 54    | -0.02    |
| 23 TC | 2-Nitrophenol               | 0.205 | 0.200 | 2.4   | 57    | -0.02    |
| 24 T  | 2,4-Dimethylphenol          | 0.394 | 0.414 | -5.0  | 61    | -0.02    |
| 25 T  | bis(2-Chloroethoxy)methane  | 0.464 | 0.423 | 8.9   | 53    | 0.00     |
| 26 TC | 2,4-Dichlorophenol          | 0.304 | 0.321 | -5.5  | 62    | -0.02    |
| 27 T  | Benzoic Acid                | 0.223 | 0.265 | -18.6 | 65    | 0.00     |
| 28 M  | 1,2,4-Trichlorobenzene      | 0.309 | 0.327 | -5.9  | 63    | -0.02    |
| 29 T  | Naphthalene                 | 1.043 | 1.099 | -5.4  | 61    | -0.02    |
| 30 T  | 4-Chloroaniline             | 0.416 | 0.398 | 4.1   | 56    | -0.02    |
| 31 TC | Hexachlorobutadiene         | 0.178 | 0.191 | -7.2  | 64    | -0.02    |
| 32 MC | 4-Chloro-3-methylphenol     | 0.324 | 0.325 | -0.5  | 59    | -0.02    |
| 33 T  | 2-Methylnaphthalene         | 0.645 | 0.664 | -3.0  | 61    | -0.02    |
| 34 I  | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 59    | -0.02    |
| 35 TP | Hexachlorocyclopentadiene   | 0.293 | 0.147 | 49.7  | 29    | -0.03    |
| 36 TC | 2,4,6-Trichlorophenol       | 0.378 | 0.410 | -8.6  | 64    | -0.02    |
| 37    | 2,4,5-Trichlorophenol       | 0.421 | 0.444 | -5.5  | 62    | -0.02    |
| 38 S  | 2-Fluorobiphenyl            | 1.481 | 1.577 | -6.5  | 62    | -0.02    |
| 39    | 2-Chloronaphthalene         | 1.121 | 1.168 | -4.2  | 61    | -0.02    |
| 40    | 2-Nitroaniline              | 0.422 | 0.394 | 6.7   | 54    | -0.02    |
| 41 T  | Acenaphthylene              | 1.893 | 1.917 | -1.3  | 59    | -0.03    |
| 42 T  | Dimethylphthalate           | 1.369 | 1.402 | -2.4  | 60    | -0.02    |
| 43 T  | 2,6-Dinitrotoluene          | 0.337 | 0.343 | -1.8  | 60    | -0.02    |
| 44 T  | 3-Nitroaniline              | 0.331 | 0.308 | 6.9   | 55    | -0.02    |

|    |    |                            |       |       |       |    |       |
|----|----|----------------------------|-------|-------|-------|----|-------|
| 45 | MC | Acenaphthene               | 1.130 | 1.203 | -6.4  | 62 | -0.02 |
| 46 | TP | 2,4-Dinitrophenol          | 0.202 | 0.193 | 4.2   | 53 | -0.03 |
| 47 | T  | Dibenzofuran               | 1.610 | 1.658 | -3.0  | 60 | -0.03 |
| 48 | M  | 2,4-Dinitrotoluene         | 0.441 | 0.436 | 1.3   | 58 | -0.02 |
| 49 | MC | 4-Nitrophenol              | 0.394 | 0.371 | 5.8   | 54 | -0.03 |
| 50 | T  | Fluorene                   | 1.350 | 1.515 | -12.2 | 65 | -0.03 |
| 51 | T  | 4-Chlorophenyl-phenylether | 0.642 | 0.765 | -19.1 | 70 | -0.02 |
| 52 | T  | Diethylphthalate           | 1.389 | 1.467 | -5.7  | 62 | -0.02 |
| 53 | F  | 4-Nitroaniline             | 0.308 | 0.288 | 6.4   | 55 | -0.02 |
| 54 | T  | Azobenzene                 | 1.682 | 1.670 | 0.8   | 60 | -0.03 |
|    |    |                            |       |       |       |    |       |
| 55 | I  | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 59 | -0.03 |
| 56 | T  | 4,6-Dinitro-2-methylphenol | 0.162 | 0.146 | 9.7   | 51 | -0.02 |
| 57 | TC | N-Nitrosodiphenylamine     | 0.512 | 0.521 | -1.8  | 60 | -0.03 |
| 58 | S  | 2,4,6-Tribromophenol       | 0.128 | 0.152 | -18.5 | 69 | -0.02 |
| 59 | T  | 4-Bromophenyl-phenylether  | 0.180 | 0.206 | -14.8 | 68 | -0.04 |
| 60 | T  | Hexachlorobenzene          | 0.232 | 0.265 | -14.6 | 68 | -0.04 |
| 61 | MC | Pentachlorophenol          | 0.148 | 0.160 | -7.9  | 62 | -0.04 |
| 62 | T  | Phenanthrene               | 1.021 | 1.069 | -4.7  | 61 | -0.03 |
| 63 | T  | Anthracene                 | 1.041 | 1.076 | -3.4  | 61 | -0.03 |
| 64 | T  | Carbazole                  | 0.883 | 0.903 | -2.3  | 61 | -0.04 |
| 65 | T  | Di-n-butylphthalate        | 1.404 | 1.429 | -1.8  | 60 | -0.04 |
| 66 | TC | Fluoranthene               | 1.056 | 1.128 | -6.8  | 63 | -0.04 |
|    |    |                            |       |       |       |    |       |
| 67 | I  | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 67 | -0.05 |
| 68 | T  | Benzidine                  | 0.432 | 0.274 | 36.4  | 42 | -0.05 |
| 69 | M  | Pyrene                     | 1.240 | 1.161 | 6.3   | 63 | -0.04 |
| 70 | S  | Terphenyl-d14              | 0.965 | 0.952 | 1.3   | 67 | -0.04 |
| 71 | T  | Butylbenzylphthalate       | 0.755 | 0.699 | 7.4   | 62 | -0.05 |
| 72 | T  | 3,3'-Dichlorobenzidine     | 0.422 | 0.475 | -12.5 | 78 | -0.05 |
| 73 | F  | Benzo[a]anthracene         | 1.146 | 1.093 | 4.6   | 64 | -0.05 |
| 74 | T  | Chrysene                   | 1.119 | 1.076 | 3.8   | 65 | -0.04 |
| 75 | T  | bis(2-Ethylhexyl)phthalate | 1.109 | 1.033 | 6.8   | 62 | -0.05 |
|    |    |                            |       |       |       |    |       |
| 76 | I  | Perylene-d12               | 1.000 | 1.000 | 0.0   | 54 | -0.05 |
| 77 | TC | Di-n-octylphthalate        | 1.904 | 2.262 | -18.8 | 64 | -0.05 |
| 78 | T  | Benzo[b]fluoranthene       | 1.275 | 1.518 | -19.1 | 64 | -0.05 |
| 79 | T  | Benzo[k]fluoranthene       | 1.058 | 1.091 | -3.1  | 57 | -0.05 |
| 80 | TC | Benzo[a]pyrene             | 1.083 | 1.148 | -6.0  | 57 | -0.05 |
| 81 | T  | Indeno[1,2,3-cd]pyrene     | 1.180 | 0.984 | 16.6  | 44 | -0.07 |
| 82 | T  | Dibenz[a,h]anthracene      | 1.161 | 0.885 | 23.8  | 41 | -0.08 |
| 83 | T  | Benzo[g,h,i]perylene       | 1.128 | 0.704 | 37.6  | 34 | -0.09 |

(#) = Out of Range  
CC0624.D 8270.M

SPCC's out = 0 CCC's out = 0  
Fri Jun 28 08:03:32 1996 HP-4

# U.S. Army Corps of Engineers

Work Order #

Job #

39449

Chain of Custody Recd

(ER 1110-1-263)

Proj. No.

Project Name

7. Street

Sampler 1 (Signature)

46778

Date

Time

Pres.

Grab

Core

Site Code/Sample Number

Number of Containers

10820  
118240  
418-1 TRPH

Remarks

SAID NO.

AMTR

Date

Time

Pres.

Site Code/Sample Number

Number of Containers

Remarks

SAID NO.

AMTR

Date

Time

Pres.

Site Code/Sample Number

Number of Containers

Remarks

SAID NO.

AMTR

|                                             |                               |                     |                               |                                |
|---------------------------------------------|-------------------------------|---------------------|-------------------------------|--------------------------------|
| Sampler Relinquished by: <i>[Signature]</i> | Date/Time: <i>[Signature]</i> | Received by: (Sig.) | Date/Time: <i>[Signature]</i> | Hazards Associated with Sample |
| Relinquished by: (Sig.) <i>[Signature]</i>  | Date/Time: <i>[Signature]</i> | Received by: (Sig.) | Date/Time: <i>[Signature]</i> | 96-A038069                     |
| Relinquished by: (Sig.)                     | Date/Time:                    | Received by: (Sig.) | Date/Time:                    | Remarks at time of receipt:    |
| Custody Seal No.                            |                               | Lab Case No.        |                               |                                |

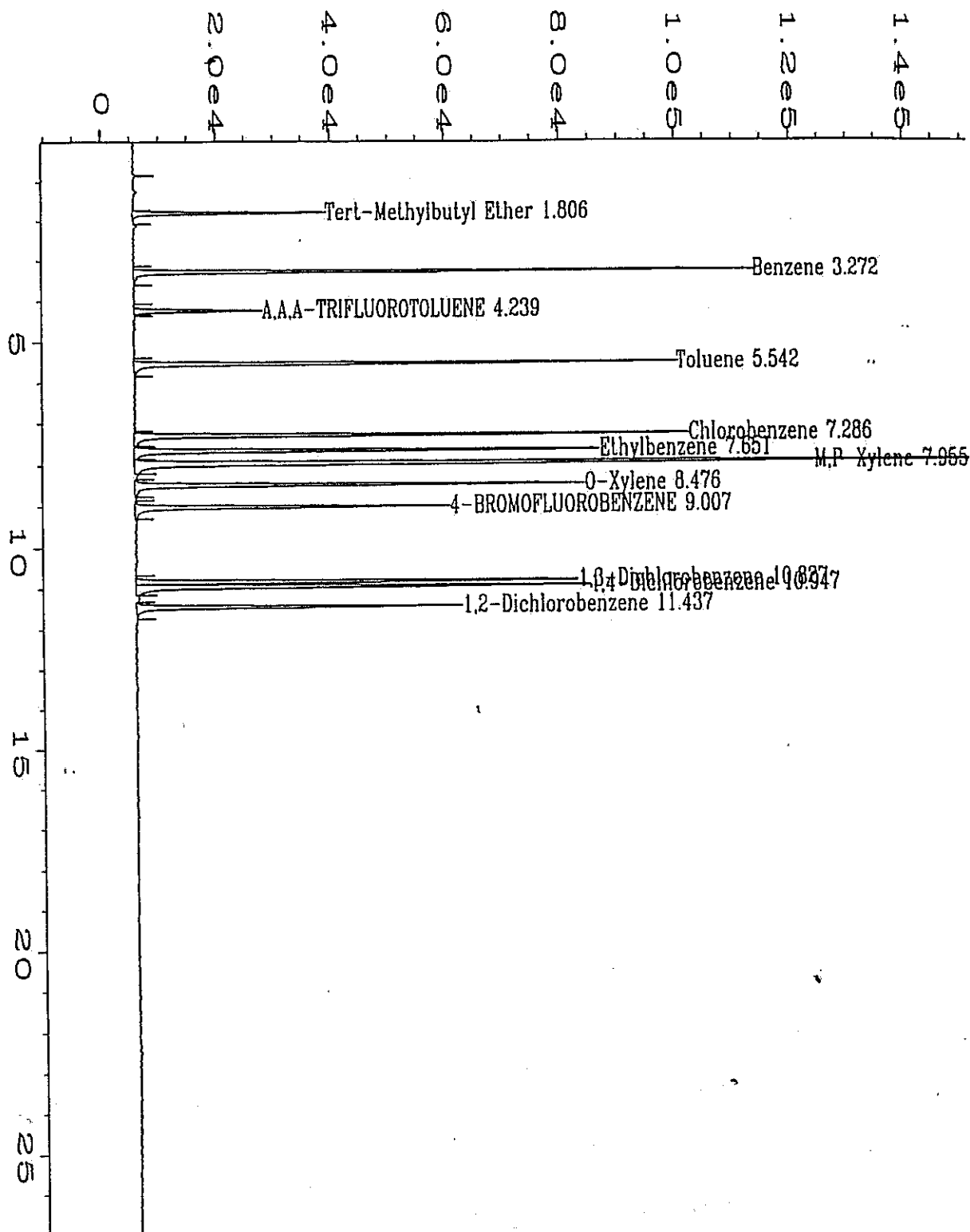
External Standard Report

```

Data File Name   : C:\HPCHEM\2\DATA\b070896\60708F02.D
Operator        : Doug*Anderson
Instrument       : GC6
Sample Name     : 20ppb 8020 std
Run Time Bar Code:
Acquired on     : 08 Jul 96 03:03 PM
Report Created on: 08 Jul 96 03:30 PM
Last Recalib on : 14 JUN 96 11:11 AM
Multiplier      : 1
Sample Info     : 16ppb surr
Page Number     : 1
Vial Number     : 2
Injection Number: 1
Sequence Line   : 1
Instrument Method: 6B061396.MTH
Analysis Method : 6B061396.MTH
Sample Amount   : 0
ISTD Amount     :
  
```

Sig. 1 in C:\HPCHEM\2\DATA\b070896\60708F02.D

| Ret Time | Area   | Type | Width | Ref# | ppb    | Name                   |
|----------|--------|------|-------|------|--------|------------------------|
| 1.806    | 114206 | PV   | 0.052 | 1    | 19.811 | Tert-Methylbutyl Ether |
| 3.272    | 366410 | PV   | 0.053 | 1    | 19.176 | Benzene                |
| 4.239    | 85603  | BV   | 0.059 | 1    | 14.883 | A,A,A-TRIFLUOROTOLUENE |
| 5.542    | 347555 | PV   | 0.057 | 1    | 18.977 | Toluene                |
| 7.286    | 357102 | PV   | 0.058 | 1    | 19.271 | Chlorobenzene          |
| 7.651    | 311701 | VV   | 0.060 | 1    | 19.373 | Ethylbenzene           |
| 7.955    | 725835 | VV   | 0.063 | 1    | 38.175 | M,P-Xylene             |
| 8.476    | 303114 | VV   | 0.060 | 1    | 19.395 | O-Xylene               |
| 9.007    | 213150 | VV   | 0.060 | 1    | 15.900 | 4-BROMOFLUOROBENZENE   |
| 10.827   | 291564 | BV   | 0.059 | 1    | 18.728 | 1,3-Dichlorobenzene    |
| 11.947   | 310741 | VV   | 0.060 | 1    | 18.776 | 1,4-Dichlorobenzene    |
| 12.437   | 222554 | PV   | 0.061 | 1    | 18.576 | 1,2-Dichlorobenzene    |



|                    |                                       |                   |                |
|--------------------|---------------------------------------|-------------------|----------------|
| Data File Name     | : C:\HPCHEM\2\DATA\b070896\60708F02.D | Page Number       | : 1            |
| Operator           | : Doug Anderson                       | Vial Number       | : 2            |
| Instrument         | : GC6                                 | Injection Number  | : 1            |
| Sample Name        | : 20ppb 8020 std                      | Sequence Line     | : 1            |
| Run Time Bar Code: |                                       | Instrument Method | : 6B061396.MTH |
| Printed on         | : 08 Jul 96 03:03 PM                  | Analysis Method   | : 6B061396.MTH |
| Report Created on: | : 08 Jul 96 03:30 PM                  | Sample Amount     | : 0            |
| Last Recalib on    | : 14 JUN 96 11:11 AM                  | ISTD Amount       | :              |
| Multiplier         | : 1                                   |                   |                |
| Sample Info        | : 16ppb surr                          |                   |                |

# BTEX Method Blank Summary

|                                |                              |
|--------------------------------|------------------------------|
| <b>Lab Name:</b> ESO Sys, Inc. | <b>Client:</b> ACE-SAD       |
| <b>Ledger No(s):</b> 107849    |                              |
| <b>Batch No:</b> 070896B       | <b>Date Analyzed:</b> 7/8/96 |
| <b>Lab File ID:</b> 60708F03   | <b>Time Analyzed:</b> 15:36  |
| <b>Lab Sample ID:</b> AB34172  | <b>Level:</b> Low            |
| <b>Instrument ID:</b> GC-6     | <b>Matrix:</b> Soil          |

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

|    | Client<br>Sample No. | Lab<br>Sample ID | Lab<br>File ID | Date<br>Analyzed |
|----|----------------------|------------------|----------------|------------------|
| 1  | NA                   | AB35516 LCS      | 60708F04       | 7/8/96           |
| 2  | NA                   | AB35517 MS       | 60708F05       | 7/8/96           |
| 3  | NA                   | AB35518 MSD      | 60708F06       | 7/8/96           |
| 4  | 244-T1-S1            | AB35169          | 60708F07       | 7/8/96           |
| 5  | 261-T1-S1            | AB35170          | 60708F08       | 7/8/96           |
| 6  |                      |                  |                |                  |
| 7  |                      |                  |                |                  |
| 8  |                      |                  |                |                  |
| 9  |                      |                  |                |                  |
| 10 |                      |                  |                |                  |
| 11 |                      |                  |                |                  |
| 12 |                      |                  |                |                  |
| 13 |                      |                  |                |                  |
| 14 |                      |                  |                |                  |
| 15 |                      |                  |                |                  |
| 16 |                      |                  |                |                  |
| 17 |                      |                  |                |                  |
| 18 |                      |                  |                |                  |
| 19 |                      |                  |                |                  |
| 20 |                      |                  |                |                  |

NA = Not Applicable



QA/QC Officer

Comments:

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# Soil BTEX MS/MSD Recovery

Lab Name: EcoSys, Inc.  
 Ledger No: 107489  
 Batch No: 070896B  
 Lab File ID: 60708F05/60708F06

Client: ACE-SAD  
 Matrix Spike/Lab Sample No: AB35169 REF  
 AB35517 MS  
 AB35518 MSD

| Compound     | Spike Added<br>(ug/Kg) | Sample<br>Conc<br>(ug/Kg) | MS<br>Conc<br>(ug/Kg) | MS %<br>Recovery | # | QC Limits<br>Recovery |
|--------------|------------------------|---------------------------|-----------------------|------------------|---|-----------------------|
| Benzene      | 20                     | ND                        | 19                    | 94               |   | 40-160                |
| Toluene      | 20                     | ND                        | 18                    | 89               |   | 40-160                |
| Ethylbenzene | 20                     | ND                        | 17                    | 84               |   | 40-160                |
| m,p-Xylene   | 40                     | ND                        | 33                    | 82               |   | 40-160                |
| o-Xylene     | 20                     | ND                        | 16                    | 81               |   | 40-160                |

| Compound     | Spike Added<br>(ug/Kg) | MSD<br>Conc<br>(ug/Kg) | MSD %<br>Recovery | # | % RPD | # | QC Limits |          |
|--------------|------------------------|------------------------|-------------------|---|-------|---|-----------|----------|
| Benzene      | 20                     | 18                     | 91                |   | 4     |   | RPD       | Recovery |
| Toluene      | 20                     | 17                     | 85                |   | 5     |   | 30        | 40-160   |
| Ethylbenzene | 20                     | 16                     | 78                |   | 7     |   | 30        | 40-160   |
| m,p-Xylene   | 40                     | 30                     | 75                |   | 9     |   | 30        | 40-160   |
| o-Xylene     | 20                     | 15                     | 74                |   | 9     |   | 30        | 40-160   |

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

\* Values outside of OC limits

ND = Not Detected

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits



QA/QC Officer

Comments:

# BTEX LCS Recoveries (Soil)

Lab Name: EcoSys, Inc.

Ledger No: 107849

Batch No: 070896B

Lab File ID: 60708F04

Client: ACE-SAD

Laboratory Control Sample No: AB35516

Level (Low/Med): Low

| Compound     | Spike Added<br>(ug/Kg) | LCS<br>Conc<br>(ug/Kg) | LCS %<br>Recovery | # | QC Limits<br>Recovery |
|--------------|------------------------|------------------------|-------------------|---|-----------------------|
| Benzene      | 20                     | 21                     | 107               |   | 40-160                |
| Toluene      | 20                     | 21                     | 106               |   | 40-160                |
| Ethylbenzene | 20                     | 21                     | 107               |   | 40-160                |
| m,p-Xylene   | 40                     | 43                     | 106               |   | 40-160                |
| o-Xylene     | 20                     | 21                     | 107               |   | 40-160                |

\* Values outside of OC limits

ND = Not Detected

Spike Recovery: 0 out of 5 outside limits



QA/QC Officer

Comments: \_\_\_\_\_

\_\_\_\_\_

## BTEX Surrogate Recovery Summary

|                |         |
|----------------|---------|
| <b>Client:</b> | ACE-SAD |
| <b>Matrix:</b> | Soil    |
| <b>Level:</b>  | Low     |

[illegible]

**Surrogate Recovery Limits: 40-160%**

**# Column to be used to flag recovery values**

\* Values outside of required QC limits

**ND = Not Detected**

**DO = Diluted Out**

Robert Linn

**QA/QC Officer**

**Comments:**

\*Surrogate is outside QC limits. (See Narrative)

# External Standard Report

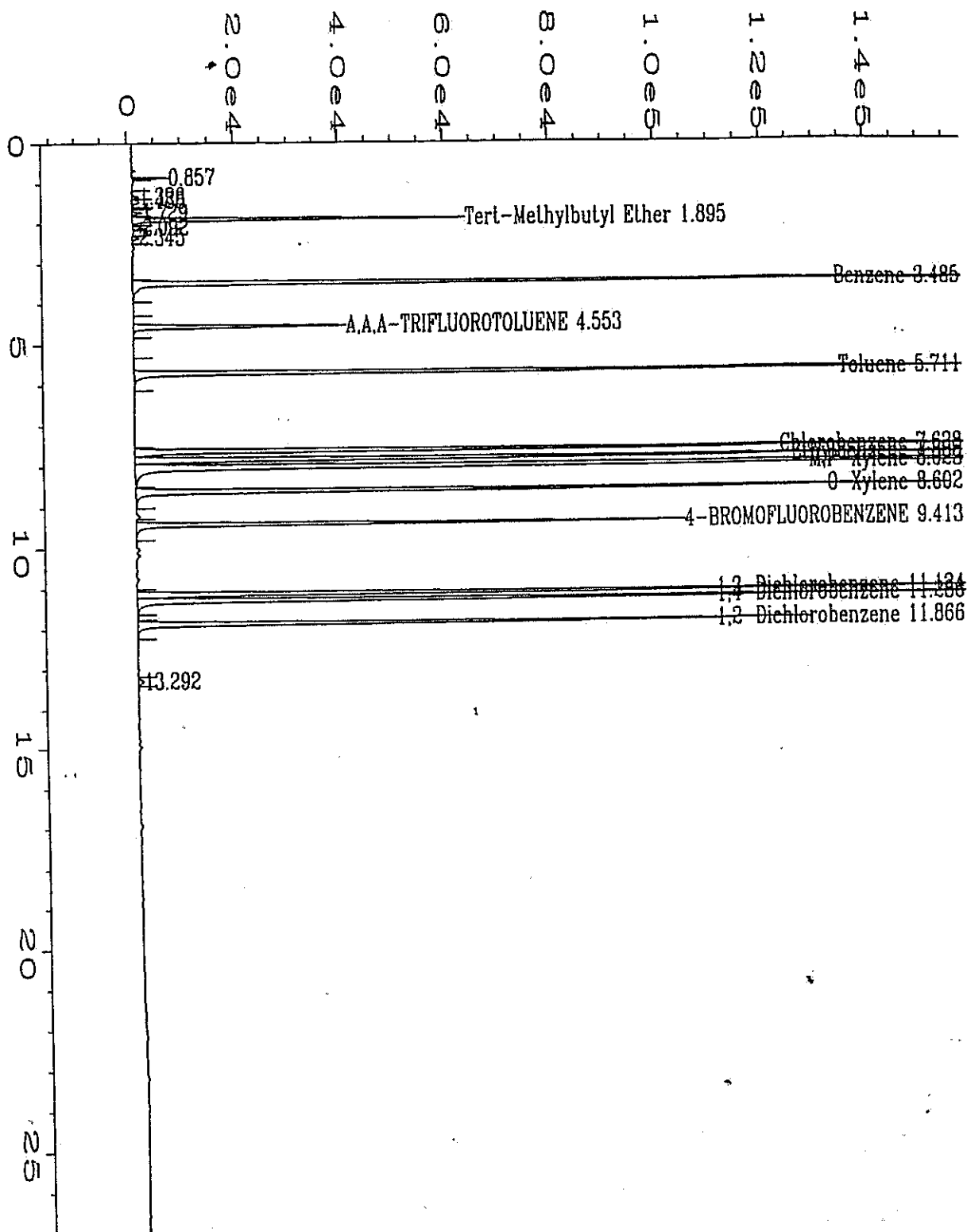
```

=====
Data File Name   : C:\HPCHEM\1\DATA\b070996\30709F02.D
Operator        : Doug Anderson
Instrument       : GC3
Sample Name      : 20ppb 8020 std
Run Time Bar Code:
Acquired on     : 09 Jul 96 10:58 AM
Report Created on: 10 Jul 96 07:12 AM
Last Recalib on : 14 JUN 96 10:38 AM
Multiplier      : 1
Sample Info     : 16ppb surr

Page Number      : 1
Vial Number      : 2
Injection Number : 1
Sequence Line    : 1
Instrument Method: 3B061396.MTH
Analysis Method  : 3B061396.MTH
Sample Amount    : 0
ISTD Amount      :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\b070996\30709F02.D

| Ret Time | Area    | Type | Width | Ref# | ppb    | Name                   |
|----------|---------|------|-------|------|--------|------------------------|
| 1.895    | 234486  | PV   | 0.058 | 1    | 20.198 | Tert-Methylbutyl Ether |
| 3.485    | 743343  | BB   | 0.055 | 1    | 18.976 | Benzene                |
| 4.553    | 165792  | BB   | 0.064 | 1    | 15.010 | A,A,A-TRIFLUOROTOLUENE |
| 5.711    | 699751  | BB   | 0.058 | 1    | 18.612 | Toluene                |
| 7.628    | 707733  | BV   | 0.057 | 1    | 18.769 | Chlorobenzene          |
| 7.835    | 631776  | VV   | 0.061 | 1    | 18.786 | Ethylbenzene           |
| 8.023    | 1459534 | VV   | 0.061 | 1    | 37.711 | M,P-Xylene             |
| 8.602    | 613656  | VB   | 0.062 | 1    | 18.598 | O-Xylene               |
| 9.413    | 392047  | PV   | 0.058 | 1    | 15.394 | 4-BROMOFLUOROBENZENE   |
| 11.124   | 635484  | BV   | 0.058 | 1    | 18.787 | 1,3-Dichlorobenzene    |
| 12.286   | 640201  | VV   | 0.059 | 1    | 18.687 | 1,4-Dichlorobenzene    |
| 13.866   | 487254  | BB   | 0.060 | 1    | 20.458 | 1,2-Dichlorobenzene    |



|                    |                                       |                    |                |
|--------------------|---------------------------------------|--------------------|----------------|
| Data File Name     | : C:\HPCHEM\1\DATA\b070996\30709F02.D | Page Number        | : 1            |
| Operator           | : Doug Anderson                       | Vial Number        | : 2            |
| Instrument         | : GC3                                 | Injection Number   | : 1            |
| Sample Name        | : 20ppb 8020 std                      | Sequence Line      | : 1            |
| Run Time Bar Code: |                                       | Instrument Method: | 3B061396.MTH   |
| Printed on         | : 09 Jul 96 10:58 AM                  | Analysis Method    | : 3B061396.MTH |
| Report Created on: | 10 Jul 96 07:13 AM                    | Sample Amount      | : 0            |
| Last Recalib on    | : 14 JUN 96 10:38 AM                  | ISTD Amount        | :              |
| Multiplier         | : 1                                   |                    |                |
| Sample Info        | : 16ppb surr                          |                    |                |

# BTEX Method Blank Summary

|                        |                       |
|------------------------|-----------------------|
| Lab Name: EcoSys, Inc. | Client: ACE-SAD       |
| Ledger No(s): 107849   |                       |
| Batch No: Q70996B      | Date Analyzed: 7/9/96 |
| Lab File ID: 30709F03  | Time Analyzed: 11:31  |
| Lab Sample ID: AB34173 | Level: Low            |
| Instrument ID: GC3     | Matrix: Water         |

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

|    | Client<br>Sample No. | Lab<br>Sample ID | Lab<br>File ID | Date<br>Analyzed |
|----|----------------------|------------------|----------------|------------------|
| 1  | NA                   | AB35567 LCS      | 30709F04       | 7/9/96           |
| 2  | NA                   | AB35568 MS       | 30709F05       | 7/9/96           |
| 3  | NA                   | AB35569 MSD      | 30709F06       | 7/9/96           |
| 4  | TRIP BLANK           | AB35171          | 30709F07       | 7/9/96           |
| 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: 107849

Batch No: 070996B

Lab File ID: 30709F05/30709F06

Client: ACE-SAD

Matrix Spike/Matrix Dup No.: AB35568 MS

AB35569 MSD

AB34171 REF

Level (Low/Med): Low

| Compound     | Spike Added<br>(ug/L) | Sample<br>Conc<br>(ug/L) | MS<br>Conc<br>(ug/L) | MS %<br>Recovery | # | QC Limits<br>Recovery |
|--------------|-----------------------|--------------------------|----------------------|------------------|---|-----------------------|
| Benzene      | 20.0                  | ND                       | 16.2                 | 81               |   | 80-120                |
| Toluene      | 20.0                  | ND                       | 16.6                 | 83               |   | 80-120                |
| Ethylbenzene | 20.0                  | ND                       | 16.2                 | 81               |   | 80-120                |
| m,p-Xylene   | 40.0                  | ND                       | 33.9                 | 85               |   | 80-120                |
| o-Xylene     | 20.0                  | ND                       | 20.6                 | 103              |   | 80-120                |

| Compound     | Spike Added<br>(ug/L) | MSD<br>Conc<br>(ug/L) | MSD %<br>Recovery | # | % RPD | # | QC Limits<br>RPD | Recovery |
|--------------|-----------------------|-----------------------|-------------------|---|-------|---|------------------|----------|
| Benzene      | 20.0                  | 17.5                  | 88                |   | 8     |   | 30               | 80-120   |
| Toluene      | 20.0                  | 17.8                  | 89                |   | 7     |   | 30               | 80-120   |
| Ethylbenzene | 20.0                  | 17.5                  | 88                |   | 8     |   | 30               | 80-120   |
| m,p-Xylene   | 40.0                  | 36.7                  | 92                |   | 8     |   | 30               | 80-120   |
| o-Xylene     | 20.0                  | 22.3                  | 112               |   | 8     |   | 30               | 80-120   |

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

\* Values outside of OC limits

ND = None Detected

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

QA/QC Officer

Comments:

# BTEX LCS Recoveries (Water)

Lab Name: EcoSys, Inc.  
 Ledger No: 107849  
 Batch No: 070996B  
 Lab File ID: 30709F04

Client: ACE-SAD  
 Lab Control Spike: AB35567  
 Level (Low/Med): Low

| Compound     | Spike Added<br>(ug/L) | Sample<br>Conc.<br>(ug/L) | LCS<br>Conc<br>(ug/L) | ECS %<br>Recovery | # | QC Limits<br>Recovery |
|--------------|-----------------------|---------------------------|-----------------------|-------------------|---|-----------------------|
| Benzene      | 20                    | NR                        | 19                    | 97                |   | 80-120                |
| Toluene      | 20                    | NR                        | 19                    | 95                |   | 80-120                |
| Ethylbenzene | 20                    | NR                        | 19                    | 96                |   | 80-120                |
| m,p-Xylene   | 40                    | NR                        | 39                    | 97                |   | 80-120                |
| o-Xylene     | 20                    | NR                        | 19                    | 96                |   | 80-120                |

\* Values outside of QC limits

ND = Not Detected

NR = Not Required

Spike Recovery: 0 out of 5 outside limits



QA/QC Officer

Comments:

## BTEX Surrogate Recovery Summary

Client: ACE-SAD  
Matrix: Water  
Level: Low

[illegible]

**Surrogate Recovery Limits: 80-120%**

**# Column to be used to flag recovery values**

\* Values outside of required QC limits

**ND = Not Detected**

**DO = Diluted Out**

QA/QC Officer

**Comments:**

## SemiVolatiles DFTPP

Lab Name: EcoSys, Inc.Client: ACE SADLedger No: 107849DFTPP Injection Date: 7/8/96Lab File ID: DFTPP070896DFTPP Injection Time: 15:35Instrument ID: MSD-3Batch Number: 0708960001

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 30.0 - 60.0% of mass 198           | 52.5                 |
| 68  | Less than 2.0% of mass 69          | 0.0                  |
| 69  | Mass 69 relative abundance         | 65.9 (1)             |
| 70  | Less than 2.0% of mass 69          | 0.0                  |
| 127 | 40.0 - 60.0% of mass 198           | 46.6                 |
| 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            | 6.3                  |
| 275 | 10.0 - 30.0% of mass 198           | 21.0                 |
| 365 | Greater than 1% of mass 198        | 1.8                  |
| 441 | Present, but less than mass 443    | 78.3                 |
| 442 | Greater than 40% of mass 198       | 59.8                 |
| 443 | 17.0 - 23.0% of mass 442           | 19.7 (2)             |

1-Value is % mass 69

2-Value is % mass 442

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

|    | CLIENT<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----|----------------------|------------------|----------------|------------------|------------------|
| 01 | NA                   | CCV              | BNA0101001     | 07/08/96         | 3:56 PM          |
| 02 | METHOD BLANK         | AB35172          | BNA0201002     | 07/08/96         | 4:52 PM          |
| 04 | NA                   | AB35509 LCS      | BNA0401004     | 07/08/96         | 6:50 PM          |
| 06 | NA                   | AB35510 MS       | BNA0601006     | 07/08/96         | 8:50 PM          |
| 07 | NA                   | AB35511 MSD      | BNA0701007     | 07/08/96         | 9:49 PM          |
| 08 | 244-T1-S1            | AB35169          | BNA0801008     | 07/08/96         | 10:49 PM         |
| 09 | 261-T1-S1            | AB35170          | BNA0501005     | 07/08/96         | 7:49 PM          |
| 10 |                      |                  |                |                  |                  |
| 11 |                      |                  |                |                  |                  |
| 12 |                      |                  |                |                  |                  |
| 13 |                      |                  |                |                  |                  |
| 14 |                      |                  |                |                  |                  |

Comments:

  
 QA/QC OFFICER

File: /chem/msd3.i/3-070896.b/dftpp070896.d  
Date: 08-Jul-1996 15:53

EcoSys, Inc.

ata file : /chem/msd3.i/3-070896.b/dftpp070896.d  
ab. Id. : DFTPP02  
nj Date : 08-JUL-96 15:38                      Autotune Date: 07-Jun-96 08:53:1  
perator : BINA                                      Inst ID: msd3.i  
mp Info : 50ng OF DFT-04-(37)  
isc Info : INSTRUMENT TUNE FOR msd3.i  
omment :  
ethod : /chem/msd3.i/3-070896.b/dftpp288.m  
eth Date : 08-Jul-1996 14:25  
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   |              |           |
| (REL RT)     | MASS | RESPONSE ( ug/L) | ( ug/L) | TARGET RANGE | RATIO     |
| 1 dftpp      |      | CAS #: 5074-71-5 |         |              |           |
| 7.766(0.000) | 198  | 230570           |         |              | 100.00(Q) |
| 7.766(0.000) | 51   | 120880           |         | 0.00- 0.00   | 52.43     |
| 7.766(0.000) | 68   | 0                |         | 0.00- 0.00   | 0.00      |
| 7.766(0.000) | 69   | 155138           |         | 0.00- 0.00   | 67.28     |
| 7.766(0.000) | 70   | 285              |         | 0.00- 0.00   | 0.18      |
| 7.766(0.000) | 127  | 105629           |         | 0.00- 0.00   | 45.81     |
| 7.766(0.000) | 197  | 0                |         | 0.00- 0.00   | 0.00      |
| 7.766(0.000) | 199  | 14721            |         | 0.00- 0.00   | 6.38      |
| 7.766(0.000) | 275  | 48328            |         | 0.00- 0.00   | 20.96     |
| 7.766(0.000) | 365  | 4562             |         | 0.00- 0.00   | 1.98      |
| 7.766(0.000) | 441  | 21237            |         | 0.00- 0.00   | 77.76     |
| 7.766(0.000) | 442  | 139949           |         | 0.00- 0.00   | 60.70     |
| 7.766(0.000) | 443  | 27312            |         | 0.00- 0.00   | 19.52     |

IC Flag Legend

1 - Qualifier signal failed the ratio test.

File: /chem/msd3.i/3-070896.b/dftpp070896.d  
Date: 08-Jul-1996 15:53

Page 2

EcoSys, Inc.

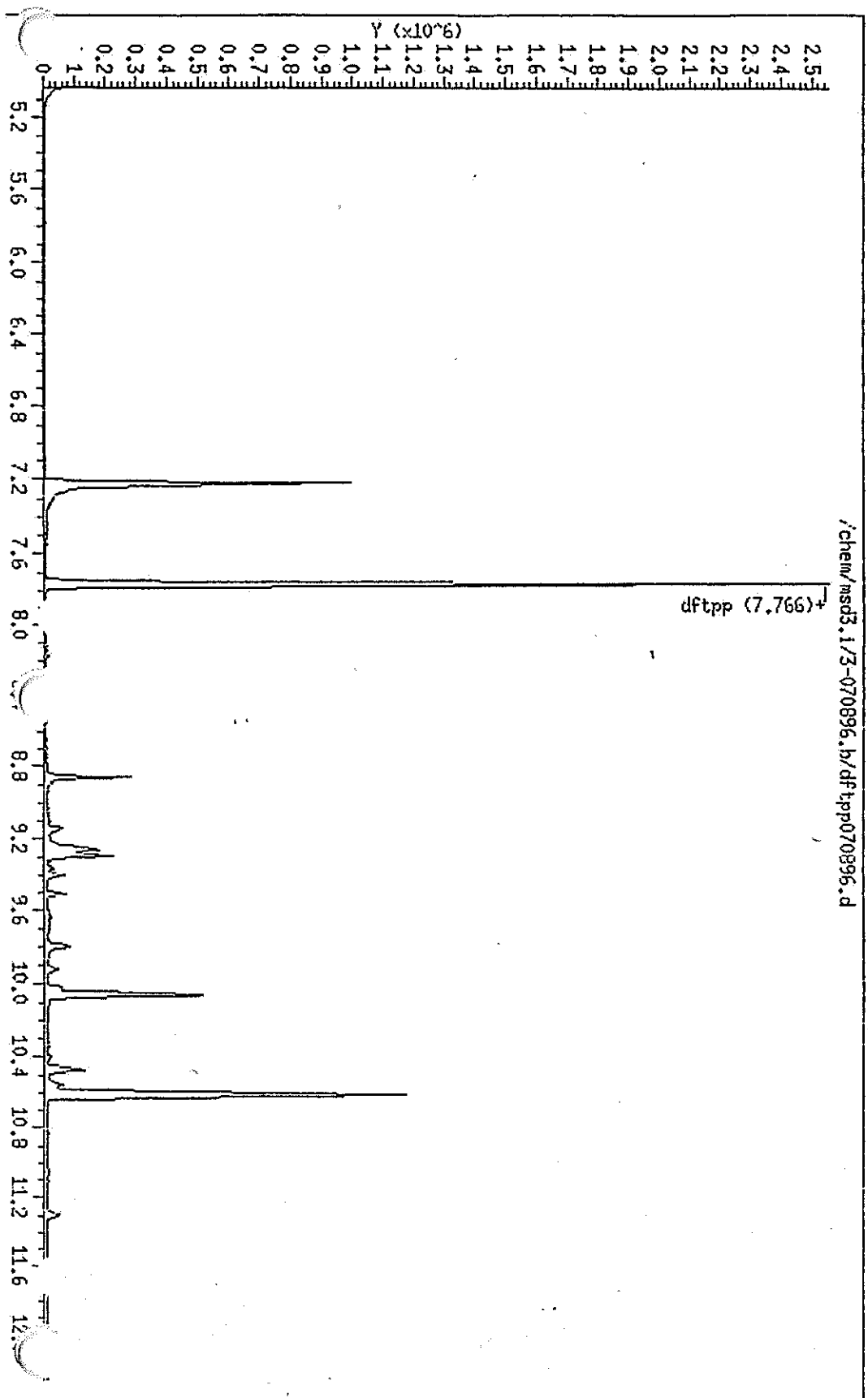
TARGET COMPOUNDS

|                                       |                        |
|---------------------------------------|------------------------|
| Client Name:                          | Client SDG: 3-070896.b |
| Client Sample ID: DFTPP02             | Sample Date:           |
| Sample Location:                      | Sample Point:          |
| Lab Sample ID: DFTPP02                | Date Received:         |
| Sample Type: WATER                    |                        |
| Analysis Type: SU                     | Level: LOW             |
| Data Type: MS DATA                    | Column Number: 1       |
| Misc Info: INSTRUMENT TUNE FOR msd3.i |                        |

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

Data File: /chem/msd3.1/3-070896.b/dftpp070896.d  
Date : 08-JUL-96 15:38  
Instrument : msd3.1  
Sample ID : DFTPP02  
Column phase :  
Volume Injected (ul) : 1.0

Column diameter : 2.00



Date: 08-JUL-96 15:38

Instrument: msd3.i

Sample ID: DFTPP02

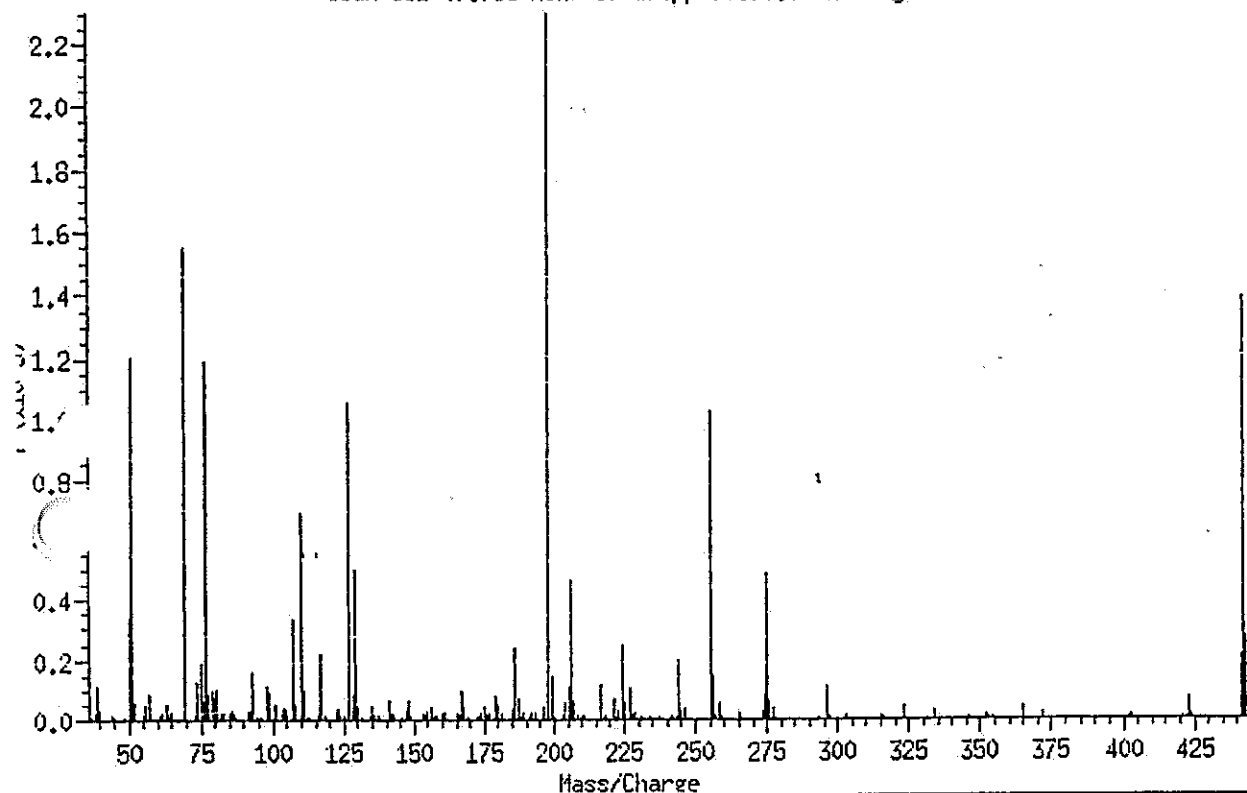
Column phase:

Column diameter: 2.00

Volume Injected (uL): 1.0

1 dftpp

Scan 381 (7.766 min) of dftpp070896.d (Averaged)



| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.0                |
| 51  | Mass 51 relative abundance         | 52.4                 |
| 68  | Mass 68 relative abundance         | 0.0                  |
| 69  | Mass 69 relative abundance         | 67.3                 |
| 70  | Mass 70 relative abundance         | 0.2                  |
| 127 | Mass 127 relative abundance        | 45.8                 |
| 197 | Mass 197 relative abundance        | 0.0                  |
| 199 | Mass 199 relative abundance        | 6.4                  |
| 275 | Mass 275 relative abundance        | 21.0                 |
| 365 | Mass 365 relative abundance        | 2.0                  |
| 441 | Mass 441 relative abundance        | 77.8                 |
| 442 | Mass 442 relative abundance        | 60.7                 |
| 443 | Mass 443 relative abundance        | 19.5                 |

Date : 08-JUL-96 15:38

Instrument : msd3.i

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

Spectrum: Scan 381-383 (7.766 min) Subtraction Scan 377

Base Peak: 198.00

Number of mass peaks: 190

| Mass  | Abund  | Mass   | Abund  | Mass   | Abund  | Mass   | Abund  |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 37.00 | 361    | 111.00 | 9876   | 176.00 | 1314   | 245.00 | 2918   |
| 38.00 | 1854   | 112.00 | 766    | 177.00 | 1946   | 246.00 | 3547   |
| 39.00 | 11368  | 116.00 | 1998   | 178.00 | 573    | 247.00 | 280    |
| 45.00 | 563    | 117.00 | 21915  | 179.00 | 8096   | 249.00 | 328    |
| 49.00 | 469    | 118.00 | 1633   | 180.00 | 5030   | 255.00 | 102693 |
| 50.00 | 33735  | 122.00 | 2124   | 181.00 | 2259   | 256.00 | 14573  |
| 51.00 | 120880 | 123.00 | 3499   | 182.00 | 249    | 257.00 | 1134   |
| 52.00 | 5834   | 124.00 | 1567   | 184.00 | 318    | 258.00 | 5447   |
| 55.00 | 1066   | 125.00 | 1352   | 185.00 | 3525   | 259.00 | 615    |
| 56.00 | 4700   | 127.00 | 105629 | 186.00 | 24189  | 265.00 | 2305   |
| 57.00 | 8752   | 128.00 | 8792   | 187.00 | 6797   | 273.00 | 3130   |
| 61.00 | 1577   | 129.00 | 50048  | 188.00 | 611    | 274.00 | 8168   |
| 62.00 | 1899   | 130.00 | 4102   | 189.00 | 1853   | 275.00 | 48328  |
| 63.00 | 4967   | 131.00 | 400    | 191.00 | 543    | 276.00 | 6142   |
| 64.00 | 565    | 134.00 | 1409   | 192.00 | 2167   | 277.00 | 3185   |
| 65.00 | 2301   | 135.00 | 3994   | 193.00 | 2258   | 278.00 | 280    |
| 69.00 | 155138 | 136.00 | 1167   | 196.00 | 4499   | 285.00 | 288    |
| 70.00 | 285    | 137.00 | 1661   | 198.00 | 230570 | 293.00 | 616    |
| 73.00 | 418    | 140.00 | 281    | 199.00 | 14721  | 296.00 | 11611  |
| 74.00 | 12359  | 141.00 | 6132   | 200.00 | 1024   | 297.00 | 1641   |
| 75.00 | 18706  | 142.00 | 2032   | 201.00 | 318    | 303.00 | 1391   |
| 76.00 | 6477   | 143.00 | 1348   | 203.00 | 1329   | 314.00 | 321    |
| 77.00 | 118997 | 145.00 | 269    | 204.00 | 5678   | 315.00 | 1300   |
| 78.00 | 8340   | 146.00 | 729    | 205.00 | 11180  | 316.00 | 553    |
| 79.00 | 9952   | 147.00 | 2966   | 206.00 | 46314  | 323.00 | 3895   |
| 80.00 | 7358   | 148.00 | 6304   | 207.00 | 6575   | 324.00 | 338    |
| 81.00 | 9551   | 149.00 | 1263   | 208.00 | 1500   | 327.00 | 349    |
| 82.00 | 2362   | 151.00 | 247    | 210.00 | 557    | 334.00 | 2714   |
| 83.00 | 2308   | 153.00 | 1829   | 211.00 | 1610   | 335.00 | 286    |
| 85.00 | 1797   | 154.00 | 1466   | 215.00 | 235    | 346.00 | 590    |
| 86.00 | 2820   | 155.00 | 2981   | 217.00 | 12014  | 352.00 | 1113   |
| 87.00 | 1693   | 156.00 | 3971   | 218.00 | 1481   | 353.00 | 613    |
| 88.00 | 258    | 157.00 | 692    | 221.00 | 6908   | 354.00 | 1056   |
| 91.00 | 2480   | 158.00 | 1103   | 222.00 | 965    | 365.00 | 4562   |
| 92.00 | 2526   | 159.00 | 350    | 223.00 | 2699   | 372.00 | 1381   |

Date : 08-JUL-96 15:38

Instrument : msd3.i

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

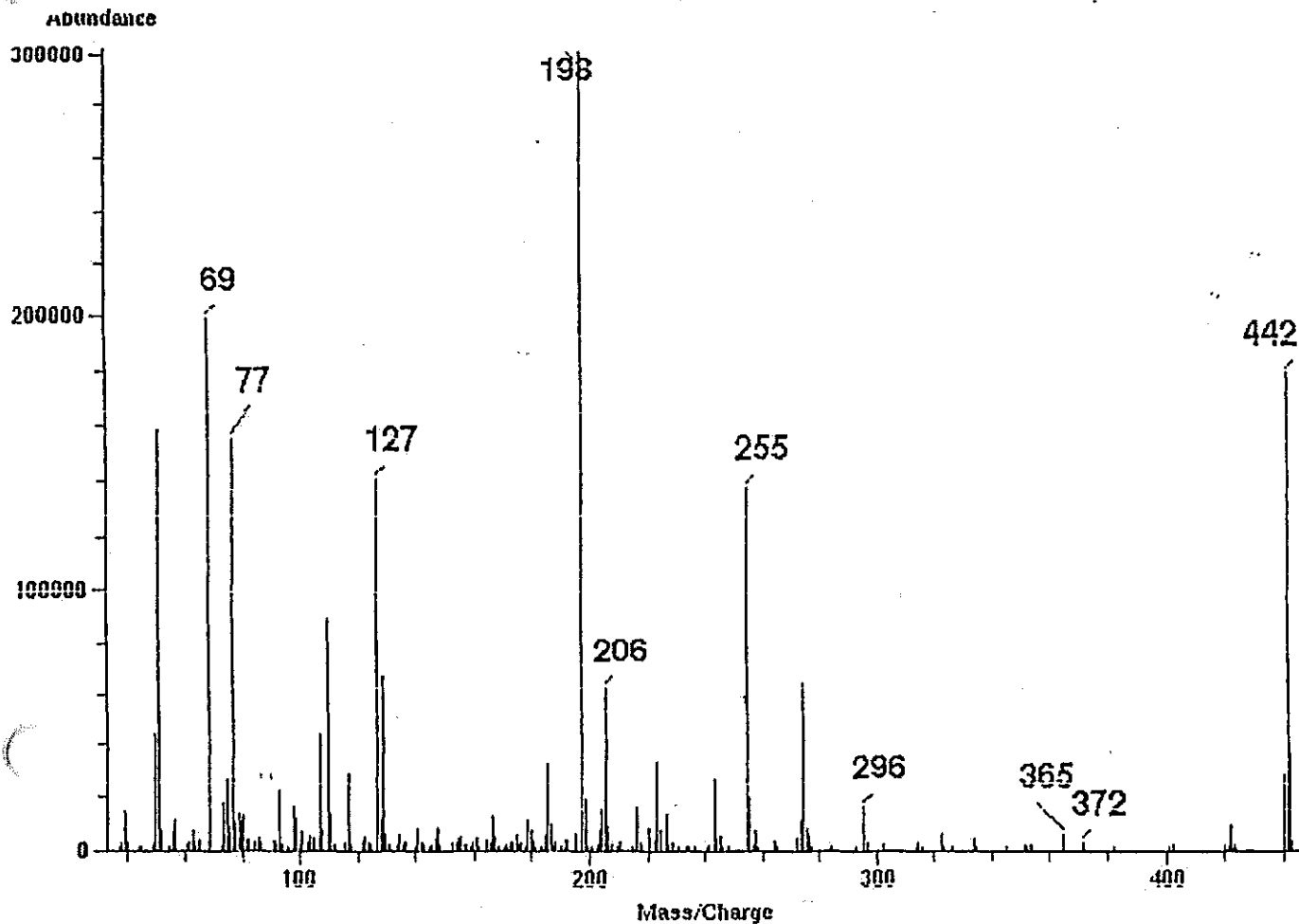
Spectrum: Scan 331-393 (7.766 min) Subtraction Scan 377

Base Peak: 198.00

Number of mass peaks: 190

| Mass   | Abund | Mass   | Abund | Mass   | Abund | Mass   | Abund  |
|--------|-------|--------|-------|--------|-------|--------|--------|
| 93.00  | 16166 | 160.00 | 1971  | 224.00 | 24504 | 383.00 | 252    |
| 94.00  | 937   | 161.00 | 2446  | 225.00 | 5620  | 402.00 | 543    |
| 96.00  | 632   | 162.00 | 344   | 227.00 | 10370 | 403.00 | 1115   |
| 98.00  | 11349 | 165.00 | 2310  | 228.00 | 1676  | 421.00 | 717    |
| 99.00  | 8904  | 166.00 | 1743  | 229.00 | 2055  | 422.00 | 654    |
| 100.00 | 698   | 167.00 | 9754  | 231.00 | 588   | 423.00 | 7368   |
| 101.00 | 4694  | 168.00 | 3994  | 234.00 | 513   | 424.00 | 1307   |
| 103.00 | 1790  | 169.00 | 568   | 235.00 | 315   | 441.00 | 21237  |
| 104.00 | 3239  | 171.00 | 280   | 237.00 | 796   | 442.00 | 139949 |
| 105.00 | 3086  | 172.00 | 934   | 241.00 | 525   | 443.00 | 27312  |
| 107.00 | 32933 | 173.00 | 1392  | 242.00 | 1232  | 444.00 | 2269   |
| 108.00 | 5192  | 174.00 | 2148  | 243.00 | 358   |        |        |
| 110.00 | 68920 | 175.00 | 3919  | 244.00 | 19856 |        |        |

Scan 382 (7.766 min) of dftpp070896.d  
msd3 (ms5971-2); /chem/config/dvc/ms5971-2/dftpp.u; Tuned at 08:53 AM EDT on Fri Jun 07, 1996



| Mass | Ion abundance criteria             | %relative abundance |
|------|------------------------------------|---------------------|
| 51   | 30.0 - 60.0% of mass 198           | 52.5                |
| 68   | Less than 2.0% of mass 69          | 0.0                 |
| 69   | Mass 69 relative abundance is      | 65.9                |
| 70   | Less than 2.0% of mass 69          | 0.0                 |
| 127  | 40.0 to 60.0% of mass 198          | 46.6                |
| 197  | Less than 1.0% of mass 198         | 0.0                 |
| 198  | Base peak, 100% relative abundance | 100.0               |
| 199  | 5.0 to 9.0% of mass 198            | 6.3                 |
| 275  | 10.0 - 30.0% of mass 198           | 21.0                |
| 365  | Greater than 1% of mass 198        | 1.8                 |
| 441  | Present, but less than mass 443    | 78.3                |
| 442  | Greater than 40.0% of mass 198     | 59.8                |
| 443  | 17.0 - 23.0% of mass 442           | 19.7                |

ata File: /chem/msd3.i/3-070896.b/BNA0101001.d  
t Date: 10-Jul-1996 06:48

Page 1

EcoSys, Inc.

BASE NEUTRAL QUANT AND RATIO REPORT

ata file : /chem/msd3.i/3-070896.b/BNA0101001.d

ab. Id. :

nj Date : 08-JUL-1996 15:56

Autotune Date: 07-Jun-96 08:53:1

perator : BINA SHAH

Inst ID: msd3.i

mp Info : BNA-80-38

isc Info : CONT CAL 80UG/ML

omment :

athod : /chem/msd3.i/3-070896.b/MA-BNA\_2.m

ath Date : 09-Jul-1996 12:03 target

al Date : 08-JUL-96 15:56

Cal File: BNA0101001.d

ls bottle: 1

Continuing Calibration Sample

il Factor: 1.000

Target Version: Target 2.20

ntegrator: HP RTE

Compound Sublist: all.sub

ample Type: WATER

| nds                             | QUANT SIG<br>MASS | RT (REL RT)   | RESPONSE | CONCENTRATIONS       |                 |
|---------------------------------|-------------------|---------------|----------|----------------------|-----------------|
|                                 |                   |               |          | ON-COLUMN<br>(ng/ul) | FINAL<br>(ug/L) |
| 1 2-Fluorophenol                | 112.00            | 9.554(0.730)  | 1288544  | 85.4                 | 85.4            |
| 2 Phenol-d5                     | 99.00             | 12.598(0.962) | 1974177  | 88.9                 | 88.9            |
| 3 Aniline                       | 93.00             | 12.282(0.938) | 2056990  | 89.0                 | 89.0(H)         |
| 4 Phenol **                     | 94.00             | 12.628(0.964) | 1880620  | 81.9                 | 81.9            |
| 5 Bis(2-chloroethyl) ether      | 93.00             | 12.509(0.955) | 1888743  | 86.3                 | 86.3(H)         |
| 6 2-Chlorophenol                | 128.00            | 12.658(0.967) | 1247967  | 77.1                 | 77.1            |
| 7 1,3-Dichlorobenzene           | 146.00            | 12.915(0.986) | 1500135  | 72.6                 | 72.6            |
| 8 1,4-Dichlorobenzene-d4        | 152.00            | 13.093(1.000) | 519526   | 40.0                 |                 |
| 9 1,4-Dichlorobenzene **        | 146.00            | 13.143(1.004) | 1503679  | 71.4                 | 71.4            |
| 10 1,2-Dichlorobenzene          | 146.00            | 13.537(1.034) | 1486993  | 73.8                 | 73.8            |
| 11 Benzyl alcohol               | 79.00             | 13.705(1.047) | 1287566  | 66.0                 | 66.0            |
| 12 2-Methylphenol               | 108.00            | 14.160(1.081) | 1256566  | 82.8                 | 82.8            |
| 13 Bis(2-chloroisopropyl) ether | 45.00             | 13.982(1.068) | 2540508  | 98.4                 | 98.4            |
| 14 4-Methylphenol               | 108.00            | 14.595(1.115) | 1281292  | 82.3                 | 82.3            |
| 15 N-Nitrosodi-n-propylamine *  | 70.00             | 14.387(1.099) | 1268260  | 76.6                 | 76.6(MH)        |
| 16 Hexachloroethane             | 117.00            | 14.417(1.101) | 618138   | 68.1                 | 68.1            |
| 17 Nitrobenzene-d5              | 82.00             | 14.654(0.889) | 2003577  | 76.6                 | 76.6            |
| 18 Nitrobenzene                 | 77.00             | 14.714(0.892) | 1892916  | 77.7                 | 77.7(H)         |
| 19 Isophorone                   | 82.00             | 15.404(0.934) | 3639536  | 74.2                 | 74.2(H)         |
| 20 2-Nitrophenol **             | 139.00            | 15.553(0.943) | 1031769  | 90.6                 | 90.6            |
| 21 -Dimethylphenol              | 107.00            | 15.898(0.964) | 1539581  | 74.9                 | 74.9            |
| 22 bis(2-Chloroethoxy)methane   | 93.00             | 16.027(0.972) | 2061380  | 78.5                 | 78.5            |
| 23 4-Dichlorophenol **          | 162.00            | 16.313(0.989) | 1133960  | 73.6                 | 73.6            |
| 24 zoic acid                    | 105.00            | 16.581(0.000) | 655502   | 52.7                 | 52.7(MH)        |
| 25 1,2,4-Trichlorobenzene       | 180.00            | 16.363(0.992) | 1174851  | 66.2                 | 66.2            |
| 26 Naphthalene-d8               | 136.00            | 16.492(1.000) | 1806193  | 40.0                 |                 |
| 27 Naphthalene                  | 128.00            | 16.562(1.004) | 3491977  | 71.0                 | 71.0            |
| 28 4-Chloroaniline              | 127.00            | 16.819(1.023) | 1380435  | 67.7                 | 67.7(H)         |
| 29 Hexachlorobutadiene **       | 225.00            | 16.909(1.025) | 685436   | 62.6                 | 62.6            |
| 30 4-Chloro-3-methylphenol **   | 107.00            | 18.270(1.108) | 1384299  | 75.9                 | 75.9            |

| Compounds                      | QUANT SIG<br>MASS | RT (REL RT)   | RESPONSE | CONCENTRATIONS       |                 |
|--------------------------------|-------------------|---------------|----------|----------------------|-----------------|
|                                |                   |               |          | ON-COLUMN<br>(ng/ul) | FINAL<br>(ug/L) |
| 32 Hexachlorocyclopentadiene * | 237.00            | 18.774(0.891) | 488210   | 56.5                 | 56.5(H)         |
| 33 2,4,6-Trichlorophenol **    | 196.00            | 19.219(0.912) | 628025   | 69.6                 | 69.6            |
| 34 2,4,5-Trichlorophenol       | 196.00            | 19.378(0.920) | 693059   | 66.1                 | 66.1            |
| 35 2-Fluorobiphenyl            | 172.00            | 19.387(0.920) | 2625090  | 71.7                 | 71.7            |
| 36 2-Chloronaphthalene         | 162.00            | 19.645(0.932) | 2363824  | 74.5                 | 74.5            |
| 37 2-Nitroaniline              | 65.00             | 20.031(0.951) | 1069361  | 86.5                 | 86.5            |
| 38 Dimethyl phthalate          | 163.00            | 20.514(0.974) | 2987589  | 74.6                 | 74.6            |
| 39 2,6-Dinitrotoluene          | 165.00            | 20.663(0.981) | 707468   | 78.1                 | 78.1            |
| 40 Acenaphthylene              | 152.00            | 20.713(0.983) | 3501708  | 77.2                 | 77.2            |
| 41 3-Nitroaniline              | 138.00            | 21.118(1.002) | 540701   | 65.7                 | 65.7            |
| 42 Acenaphthene-d10            | 164.00            | 21.068(1.000) | 1076415  | 40.0                 |                 |
| 43 Acenaphthene **             | 153.00            | 21.168(1.005) | 2334245  | 73.7                 | 73.7            |
| 44 2,4-Dinitrophenol *         | 184.00            | 21.366(1.014) | 290236   | 73.2                 | 73.2            |
| 45 4-Nitrophenol *             | 65.00             | 21.871(1.038) | 533933   | 61.8                 | 61.8            |
| 46 2,4-Dinitrotoluene          | 165.00            | 21.693(1.030) | 989380   | 83.9                 | 83.9            |
| 47 benzofuran                  | 168.00            | 21.623(1.026) | 2986195  | 71.7                 | 71.7            |
| 48 diethyl phthalate           | 149.00            | 22.356(1.061) | 3079839  | 73.4                 | 73.4            |
| 49 4-Chlorophenyl phenyl ether | 204.00            | 22.554(1.071) | 1045526  | 64.6                 | 64.6            |
| 50 4-Chlorophenyl phenyl ether | 166.00            | 22.514(1.069) | 2338053  | 69.2                 | 69.2            |
| 51 4-Nitroaniline              | 138.00            | 22.732(1.079) | 322623   | 64.7                 | 64.7(H)         |
| 52 4,6-Dinitro-2-methylphenol  | 198.00            | 22.752(0.913) | 445799   | 73.7                 | 73.7            |
| 53 N-Nitrosodiphenylamine **   | 169.00            | 22.911(0.919) | 1085816  | 101                  | 101             |
| 54 1,2-Diphenylhydrazine       | 77.00             | 22.991(0.923) | 7149153  | 82.5                 | 82.5(A)         |
| 55 2,4,6-Tribromophenol        | 330.00            | 23.169(1.100) | 436379   | 65.0                 | 65.0            |
| 56 4-Bromophenyl phenyl ether  | 248.00            | 23.812(0.956) | 689027   | 71.8                 | 71.8            |
| 57 Hexachlorobenzene           | 283.70            | 23.911(0.960) | 819370   | 68.8                 | 68.8            |
| 58 Pentachlorophenol **        | 265.70            | 24.514(0.984) | 367493   | 57.1                 | 57.1(H)         |
| 59 Phenanthrene-d10            | 188.00            | 24.920(1.000) | 1420019  | 40.0                 |                 |
| 60 Phenanthrene                | 178.00            | 24.990(1.003) | 3198091  | 79.0                 | 79.0(H)         |
| 61 Anthracene                  | 178.00            | 25.129(1.008) | 3165402  | 81.9                 | 81.9            |
| 62 Carbazole                   | 167.00            | 25.593(1.027) | 1057743  | 104                  | 104(AH)         |
| 63 Di-n-butyl phthalate        | 149.00            | 26.562(1.066) | 5194629  | 79.7                 | 79.7            |
| 64 Fluoranthene **             | 202.00            | 28.064(1.126) | 3260023  | 75.4                 | 75.4            |
| 65 Pyrene                      | 202.00            | 28.648(0.901) | 3344271  | 78.6                 | 78.6            |
| 66 Terphenyl-d14               | 244.00            | 29.102(0.916) | 2298473  | 81.2                 | 81.2            |
| 67 Butyl benzyl phthalate      | 149.00            | 30.415(0.957) | 2364863  | 90.0                 | 90.0            |
| 68 Dioctyl adipate             | 129.00            | 30.652(0.965) | 1673703  | 89.4                 | 89.4(A)         |
| 69 3,3'-Dichlorobenzidine      | 252.00            | 31.738(0.999) | 580471   | 124                  | 124             |
| 70 Bis(2-ethylhexyl) phthalate | 149.00            | 31.908(1.004) | 3241194  | 89.0                 | 89.0            |
| 71 Benzo(a)anthracene          | 228.00            | 31.748(0.999) | 2836050  | 80.4                 | 80.4(H)         |
| 72 Benzo(b)fluoranthene        | 240.00            | 31.778(1.000) | 1159388  | 40.0                 |                 |
| 73 Chrysene                    | 228.00            | 31.858(1.003) | 2483501  | 82.0                 | 82.0            |
| 74 Benzo(e)pyrene              | 149.00            | 33.517(0.941) | 5845888  | 97.4                 | 97.4            |
| 75 Benzo(b)fluoranthene        | 252.00            | 34.495(0.968) | 2811360  | 82.3                 | 82.3(H)         |
| 76 Benzo(k)fluoranthene        | 252.00            | 34.595(0.971) | 2390903  | 81.5                 | 81.5            |
| 77 Benzo(a)pyrene **           | 252.00            | 35.474(0.996) | 2343862  | 82.0                 | 82.0            |
| 78 Perylene-d12                | 264.00            | 35.633(1.000) | 901663   | 40.0                 |                 |
| 79 Indeno(1,2,3-cd)pyrene      | 276.00            | 39.812(1.117) | 1982087  | 73.4                 | 73.4(MH)        |
| 80 Dibenz(a,h)anthracene       | 278.00            | 39.952(1.121) | 1889888  | 77.4                 | 77.4(H)         |
| 81 Benzo(g,h,i)perylene        | 276.00            | 41.117(1.154) | 1821158  | 69.6                 | 69.6(H)         |

Flag Legend

- Target compound detected but, quantitated amount exceeded maximum amount.
- Compound response manually integrated.
- Operator selected an alternate compound hit.

EcoSys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 08-JUL-1996 15:56  
 b File ID: BNA0101001.d Init. Calibration Date(s): 03/10/93 06/14/96  
 Analysis Type: WATER Init. Calibration Times: 11:35 12:12  
 b Sample ID: Method File: /chem/msd3.i/3-070896.b/MA-BNA\_2.m

| COMPOUND                     | RRF   | RF80  | MIN   | RRF  | %D   | MAX |
|------------------------------|-------|-------|-------|------|------|-----|
| 12-Fluorophenol              | 1.161 | 1.240 | 0.050 | 6.8  | 30.0 |     |
| Phenol-d5                    | 1.709 | 1.900 | 0.050 | 11.2 | 30.0 |     |
| Aniline                      | 1.779 | 1.980 | 0.050 | 11.3 | 30.0 |     |
| Phenol **                    | 1.767 | 1.810 | 0.050 | 2.4  | 30.0 |     |
| Bis(2-chloroethyl) ether     | 1.686 | 1.818 | 0.050 | 7.8  | 30.0 |     |
| 12-Chlorophenol              | 1.245 | 1.201 | 0.050 | 3.6  | 30.0 |     |
| 1,3-Dichlorobenzene          | 1.592 | 1.444 | 0.050 | 9.3  | 30.0 |     |
| 1,4-Dichlorobenzene **       | 1.622 | 1.447 | 0.050 | 10.8 | 30.0 |     |
| 1,2-Dichlorobenzene          | 1.552 | 1.431 | 0.050 | 7.8  | 30.0 |     |
| Benzyl alcohol               | 1.503 | 1.239 | 0.050 | 17.5 | 30.0 |     |
| p-Methylphenol               | 1.169 | 1.209 | 0.050 | 3.5  | 30.0 |     |
| Bis(2-chloroisopropyl) ether | 1.987 | 2.445 | 0.050 | 23.1 | 30.0 |     |
| p-Methylphenol               | 1.199 | 1.233 | 0.050 | 2.8  | 30.0 |     |
| N-Nitrosodi-n-propylamine *  | 1.274 | 1.221 | 0.050 | 4.2  | 30.0 |     |
| Hexachloroethane             | 0.698 | 0.595 | 0.050 | 14.8 | 30.0 |     |
| Nitrobenzene-d5              | 0.579 | 0.555 | 0.050 | 4.3  | 30.0 |     |
| Nitrobenzene                 | 0.539 | 0.524 | 0.050 | 2.8  | 30.0 |     |
| Isophorone                   | 1.086 | 1.008 | 0.050 | 7.2  | 30.0 |     |
| 12-Nitrophenol **            | 0.252 | 0.286 | 0.050 | 13.2 | 30.0 |     |
| 12,4-Dimethylphenol          | 0.455 | 0.426 | 0.050 | 6.4  | 30.0 |     |
| Bis(2-Chloroethoxy)methane   | 0.581 | 0.571 | 0.050 | 1.9  | 30.0 |     |
| 12,4-Dichlorophenol **       | 0.341 | 0.314 | 0.050 | 8.0  | 30.0 |     |
| Benzoic acid                 | 0.276 | 0.181 | 0.010 | 34.2 | 30.0 | <-  |
| 1,2,4-Trichlorobenzene       | 0.393 | 0.325 | 0.050 | 17.2 | 30.0 |     |
| Naphthalene                  | 1.089 | 0.967 | 0.050 | 11.2 | 30.0 |     |
| 4-Chloroaniline              | 0.452 | 0.382 | 0.050 | 15.4 | 30.0 |     |
| Hexachlorobutadiene **       | 0.242 | 0.190 | 0.050 | 21.7 | 30.0 |     |
| 4-Chloro-3-methylphenol **   | 0.404 | 0.383 | 0.050 | 5.1  | 30.0 |     |
| 12-Methylnaphthalene         | 0.699 | 0.661 | 0.050 | 5.5  | 30.0 |     |
| Hexachlorocyclopentadiene *  | 0.321 | 0.227 | 0.050 | 29.4 | 30.0 |     |
| 12,4,6-Trichlorophenol **    | 0.336 | 0.292 | 0.050 | 13.1 | 30.0 |     |
| 12,4,5-Trichlorophenol       | 0.390 | 0.322 | 0.050 | 17.4 | 30.0 |     |
| 2-Fluorobiphenyl             | 1.361 | 1.219 | 0.050 | 10.4 | 30.0 |     |
| 12-Chloronaphthalene         | 1.179 | 1.098 | 0.050 | 6.9  | 30.0 |     |
| 2-Nitroaniline               | 0.459 | 0.497 | 0.050 | 8.1  | 30.0 |     |
| Dimethyl phthalate           | 1.488 | 1.388 | 0.050 | 6.8  | 30.0 |     |
| 2,6-Dinitrotoluene           | 0.337 | 0.329 | 0.050 | 2.4  | 30.0 |     |
| Acenaphthylene               | 1.685 | 1.627 | 0.050 | 3.5  | 30.0 |     |
| 13-Nitroaniline              | 0.306 | 0.251 | 0.050 | 17.8 | 30.0 |     |
| Acenaphthene **              | 1.177 | 1.084 | 0.050 | 7.9  | 30.0 |     |
| 12,4-Dinitrophenol *         | 0.147 | 0.135 | 0.050 | 8.5  | 30.0 |     |
| 14-Nitrophenol *             | 0.321 | 0.248 | 0.050 | 22.7 | 30.0 |     |

|                   |       |       |       |     |      |
|-------------------|-------|-------|-------|-----|------|
| Diethyl phthalate | 1.558 | 1.431 | 0.050 | 8.2 | 30.0 |
|                   |       |       |       |     |      |

ata File: /chem/msd3.i/3-070896.b/BNA0101001.d  
 Date: 10-Jul-1996 06:48

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EcoSys, Inc.

# CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 08-JUL-1996 15:56  
 Lab File ID: BNA0101001.d Init. Calibration Date(s): 03/10/93 06/14/96  
 Analysis Type: WATER Init. Calibration Times: 11:35 12:12  
 Lab Sample ID: Method File: /chem/msd3.i/3-070896.b/MA-BNA\_2.m

| COMPOUND                     | RRF   | RF80  | MIN   | MAX          |
|------------------------------|-------|-------|-------|--------------|
| =====                        | ===== | ===== | ===== | =====        |
| 14-Chlorophenyl phenyl ether | 0.601 | 0.486 | 0.050 | 19.2 30.0    |
| Fluorene                     | 1.255 | 1.086 | 0.050 | 13.5 30.0    |
| 14-Nitroaniline              | 0.185 | 0.150 | 0.050 | 19.1 30.0    |
| 14,6-Dinitro-2-methylphenol  | 0.170 | 0.157 | 0.050 | 7.9 30.0     |
| 1N-Nitrosodiphenylamine **   | 0.304 | 0.382 | 0.050 | 25.9 30.0    |
| 1,2-Diphenylhydrazine        | 2.440 | 2.517 | 0.050 | 3.1 30.0     |
| 12,4,6-Tribromophenol        | 0.250 | 0.203 | 0.050 | 18.8 30.0    |
| 1-Bromophenyl phenyl ether   | 0.270 | 0.243 | 0.050 | 10.3 30.0    |
| Hexachlorobenzene            | 0.335 | 0.289 | 0.050 | 14.0 30.0    |
| Pentachlorophenol **         | 0.181 | 0.129 | 0.050 | 28.7 30.0    |
| Phenanthrene                 | 1.140 | 1.126 | 0.050 | 1.2 30.0     |
| Anthracene                   | 1.089 | 1.115 | 0.050 | 2.4 30.0     |
| Carbazole                    | 0.286 | 0.372 | 0.050 | 30.1 30.0 <- |
| Di-n-butyl phthalate         | 1.836 | 1.829 | 0.050 | 0.4 30.0     |
| Fluoranthene **              | 1.219 | 1.148 | 0.050 | 5.8 30.0     |
| Pyrene                       | 1.468 | 1.442 | 0.050 | 1.8 30.0     |
| Terphenyl-d14                | 0.977 | 0.991 | 0.050 | 1.5 30.0     |
| Butyl benzyl phthalate       | 0.906 | 1.020 | 0.050 | 12.5 30.0    |
| Dioctyl adipate              | 0.645 | 0.722 | 0.050 | 11.8 30.0    |
| 13,3'-Dichlorobenzidine      | 0.162 | 0.250 | 0.050 | 54.7 30.0 <- |
| Bis(2-ethylhexyl) phthalate  | 1.256 | 1.398 | 0.050 | 11.3 30.0    |
| Benz(a)anthracene            | 1.217 | 1.223 | 0.050 | 0.5 30.0     |
| Chrysene                     | 1.046 | 1.071 | 0.050 | 2.4 30.0     |
| Di-n-octyl phthalate **      | 2.664 | 3.242 | 0.050 | 21.7 30.0    |
| Benzo(b)fluoranthene         | 1.515 | 1.559 | 0.050 | 2.9 30.0     |
| Benzo(k)fluoranthene         | 1.301 | 1.326 | 0.050 | 1.9 30.0     |
| Benzo(a)pyrene **            | 1.267 | 1.300 | 0.050 | 2.6 30.0     |
| Indeno(1,2,3-cd)pyrene       | 1.198 | 1.099 | 0.050 | 8.3 30.0     |
| Dibenz(a,h)anthracene        | 1.084 | 1.048 | 0.050 | 3.3 30.0     |
| Benzo(g,h,i)perylene         | 1.161 | 1.010 | 0.050 | 13.0 30.0    |
|                              |       |       |       |              |

EcoSys, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: msd3.i  
 File ID: BNA0101001.d  
 Sample ID:  
 Analysis Type: SU  
 Method File: /chem/msd3.i/3-070896.b/MA-BNA\_2.m  
 Sample Info: CONT CAL 80UG/ML  
 Calibration Date: 07/08/96  
 Calibration Time: 1650  
 Sample Type: WATER  
 Level: LOW

| COMPOUND               | STANDARD | AREA LIMIT |         | SAMPLE  | % DIFF |
|------------------------|----------|------------|---------|---------|--------|
|                        |          | LOWER      | UPPER   |         |        |
| 8 1,4-Dichlorobenzene- | 519526   | 259763     | 1039052 | 519526  | 0.00   |
| 26 Naphthalene-d8      | 1806193  | 903096     | 3612386 | 1806193 | 0.00   |
| 42 Acenaphthene-d10    | 1076415  | 538207     | 2152830 | 1076415 | 0.00   |
| 59 Phenanthrene-d10    | 1420019  | 710009     | 2840038 | 1420019 | 0.00   |
| 72 Chrysene-d12        | 1159388  | 579694     | 2318776 | 1159388 | 0.00   |
| 78 Perylene-d12        | 901663   | 450831     | 1803326 | 901663  | 0.00   |

| COMPOUND               | STANDARD | RT LIMIT |       | SAMPLE | % DIFF |
|------------------------|----------|----------|-------|--------|--------|
|                        |          | LOWER    | UPPER |        |        |
| 8 1,4-Dichlorobenzene- | 13.09    | 12.59    | 13.59 | 13.09  | 0.00   |
| 26 Naphthalene-d8      | 16.49    | 15.99    | 16.99 | 16.49  | 0.00   |
| 42 Acenaphthene-d10    | 21.07    | 20.57    | 21.57 | 21.07  | 0.00   |
| 59 Phenanthrene-d10    | 24.92    | 24.42    | 25.42 | 24.92  | 0.00   |
| 72 Chrysene-d12        | 31.78    | 31.28    | 32.28 | 31.78  | 0.00   |
| 78 Perylene-d12        | 35.63    | 35.13    | 36.13 | 35.63  | 0.00   |

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

Data File: /chem/msd3.i/3-070896.b/BNH0101001.d

Date: 08-JUL-1996 15:56

Instrument: msd3.1

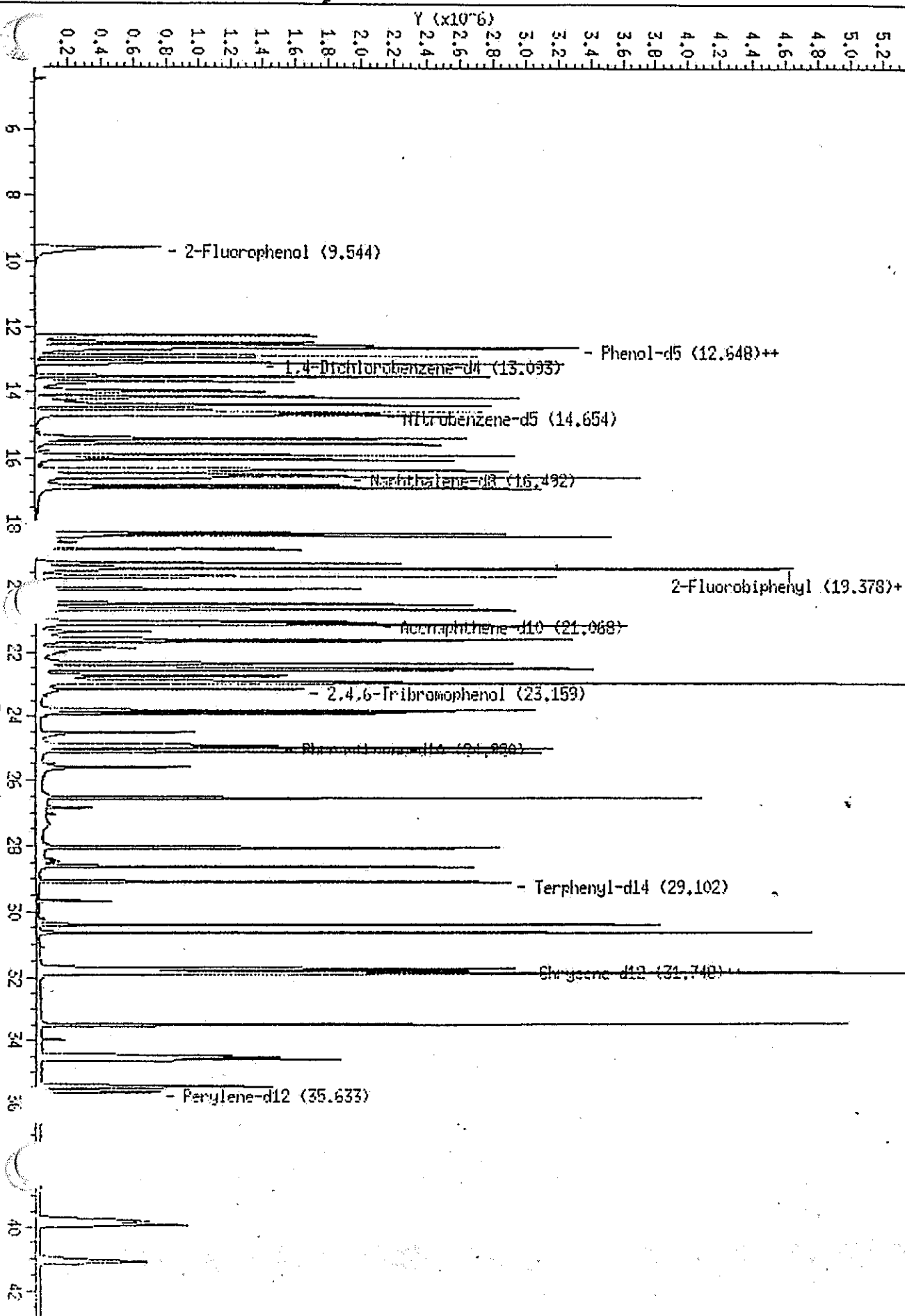
Sample ID:

Column phase:

Volume Injected (uL): 1.0

Column diameter: 0.20

/chem/msd3.i/3-070896.b/BNH0101001.d





# SemiVolatile Method Blank Summary

|                         |                             |
|-------------------------|-----------------------------|
| Lab Name: EeoSys, Inc.  | Client: ACE-SAD             |
| Ledger No(s): 107849    | Extraction Method No.: 3550 |
| Batch No(s): 0708960001 | Date Extracted: 7/8/96      |
| Lab File ID: BNA0201002 | Date Analyzed: 7/8/96       |
| Lab Sample ID: AB35172  | Time Analyzed: 16:52        |
| Cleanup Method: NA      | Level: Low                  |
| Instrument ID: MSD-3    | Matrix: Soil                |

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

|    | Client<br>Sample No. | Lab<br>Sample ID | Lab<br>File ID | Date<br>Analyzed |
|----|----------------------|------------------|----------------|------------------|
| 1  | NA                   | AB35509 LCS      | BNA0401004     | 7/8/96           |
| 2  | NA                   | AB35510 MS       | BNA0601006     | 7/8/96           |
| 3  | NA                   | AB35511 MSD      | BNA0701007     | 7/8/96           |
| 4  | 244-T1-S1            | AB35169          | BNA0801008     | 7/8/96           |
| 5  | 261-T1-S1            | AB35170          | BNA0501005     | 7/8/96           |
| 6  |                      |                  |                |                  |
| 7  |                      |                  |                |                  |
| 8  |                      |                  |                |                  |
| 9  |                      |                  |                |                  |
| 10 |                      |                  |                |                  |
| 11 |                      |                  |                |                  |
| 12 |                      |                  |                |                  |
| 13 |                      |                  |                |                  |
| 14 |                      |                  |                |                  |
| 15 |                      |                  |                |                  |
| 16 |                      |                  |                |                  |
| 17 |                      |                  |                |                  |
| 18 |                      |                  |                |                  |
| 19 |                      |                  |                |                  |
| 20 |                      |                  |                |                  |
| 21 |                      |                  |                |                  |
| 22 |                      |                  |                |                  |
| 23 |                      |                  |                |                  |
| 24 |                      |                  |                |                  |

  
QA/QC Officer

Comments:

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# Soil Volatile MS/MSD Recovery

|                                    |                                     |
|------------------------------------|-------------------------------------|
| Lab Name: EcoSys, Inc.             | Client: ACE SAD                     |
| Ledger No(s): 107849               | Matrix Spike/Spike dup: AB35170 REF |
| Batch No(s): 0708960001            | AB35510 MS                          |
| Lab File ID: BNA0601006/BNA0701007 | AB35511 MSD                         |

| Compound                   | Spike Added<br>(ug/Kg) | Sample<br>Conc.<br>(ug/Kg) | MS<br>Conc.<br>(ug/Kg) | MS %<br>Recovery | # | QC Limits<br>Recovery |
|----------------------------|------------------------|----------------------------|------------------------|------------------|---|-----------------------|
| Phenol                     | 3330                   | ND                         | 2040                   | 61               |   | 26-90                 |
| 2-Chlorophenol             | 3330                   | ND                         | 2050                   | 62               |   | 25-102                |
| 1,4-Dichlorobezene         | 1670                   | ND                         | 1050                   | 63               |   | 28-104                |
| N-Nitroso-di-n-propylamine | 1670                   | ND                         | 1110                   | 66               |   | 41-126                |
| 1,2,4-Trichlorobenzene     | 1670                   | ND                         | 1090                   | 65               |   | 38-107                |
| 4-Chloro-3-methylphenol    | 3330                   | ND                         | 2220                   | 67               |   | 26-103                |
| Acenaphthene               | 1670                   | ND                         | 1190                   | 71               |   | 31-137                |
| 4-Nitrophenol              | 3330                   | ND                         | 1930                   | 58               |   | 11-114                |
| 2,4-Dinitrotoluene         | 1670                   | ND                         | 1160                   | 69               |   | 28-89                 |
| Pentachlorophenol          | 3330                   | ND                         | 2580                   | 77               |   | 17-109                |
| Pyrene                     | 1670                   | ND                         | 1460                   | 87               |   | 35-142                |

| Compound                   | Spike Added<br>(ug/Kg) | MSD<br>Conc.<br>(ug/Kg) | MSD %<br>Recovery | # | % RPD | # | QC Limits<br>RPD | Recovery |
|----------------------------|------------------------|-------------------------|-------------------|---|-------|---|------------------|----------|
| Phenol                     | 3330                   | 1900                    | 57                |   | 7     |   | 35               | 26-90    |
| 2-Chlorophenol             | 3330                   | 1880                    | 56                |   | 9     |   | 50               | 25-102   |
| 1,4-Dichlorobezene         | 1670                   | 972                     | 58                |   | 8     |   | 27               | 28-104   |
| N-Nitroso-di-n-propylamine | 1670                   | 953                     | 57                |   | 15    |   | 38               | 41-126   |
| 1,2,4-Trichlorobenzene     | 1670                   | 1000                    | 60                |   | 9     |   | 23               | 38-107   |
| 4-Chloro-3-methylphenol    | 3330                   | 1980                    | 59                |   | 11    |   | 33               | 26-103   |
| Acenaphthene               | 1670                   | 1060                    | 63                |   | 12    |   | 19               | 31-137   |
| 4-Nitrophenol              | 3330                   | 1690                    | 51                |   | 13    |   | 50               | 11-114   |
| 2,4-Dinitrotoluene         | 1670                   | 1060                    | 63                |   | 9     |   | 47               | 28-89    |
| Pentachlorophenol          | 3330                   | 2290                    | 69                |   | 12    |   | 47               | 17-109   |
| Pyrene                     | 1670                   | 1380                    | 83                |   | 6     |   | 36               | 35-142   |

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

\* Values outside of QC limits

ND = Not Detected

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

  
QA/QC Officer

Comments: \_\_\_\_\_

## SemiVolatile LCS Recovery

Lab Name: EcoSys, Inc.

Client: ACE SAD

Ledger No(s): 107849

Lab Control Spike/LCS Dup No: AB35509 LCS

Batch No(s): 0708960001

Lab File ID: BNA0401004

| Compound                   | Spike Added<br>(ug/Kg) | Sample          | LCS             | LCS %<br>Recovery | # | QC Limits<br>Recovery |
|----------------------------|------------------------|-----------------|-----------------|-------------------|---|-----------------------|
|                            |                        | Conc<br>(ug/Kg) | Conc<br>(ug/Kg) |                   |   |                       |
| Phenol                     | 3330                   | NR              | 2180            | 65                |   | 26-90                 |
| 2-Chlorophenol             | 3330                   | NR              | 2110            | 63                |   | 25-102                |
| 1,4-Dichlorobenzene        | 1670                   | NR              | 1100            | 66                |   | 28-104                |
| N-Nitroso-di-n-propylamine | 1670                   | NR              | 1190            | 71                |   | 41-126                |
| 1,2,4-Trichlorobenzene     | 1670                   | NR              | 1090            | 65                |   | 38-107                |
| 4-Chloro-3-methylphenol    | 3330                   | NR              | 2330            | 70                |   | 0-100                 |
| Acenaphthene               | 1670                   | NR              | 1220            | 73                |   | 31-137                |
| 4-Nitrophenol              | 3330                   | NR              | 2080            | 62                |   | 11-114                |
| 2,4-Dinitrotoluene         | 1670                   | NR              | 1220            | 73                |   | 28-89                 |
| Pentachlorophenol          | 3330                   | NR              | 2400            | 72                |   | 17-109                |
| Pyrene                     | 1670                   | NR              | 1490            | 89                |   | 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): 107849     | Level: Low      |
| Batch No.(s): 0708960001 |                 |

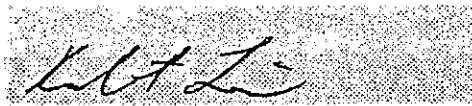
| Lab         | S1      | S2      | S3      | S4      | S5      | S6      | Total |
|-------------|---------|---------|---------|---------|---------|---------|-------|
| Sample No.  | (2FP) # | (PHL) # | (NBZ) # | (FBP) # | (TBP) # | (TPH) # | Out   |
| AB35172 MB  | 63      | 69      | 65      | 70      | 64      | 84      | 0     |
| AB35509 LCS | 57      | 65      | 61      | 67      | 70      | 84      | 0     |
| AB35510 MS  | 54      | 60      | 59      | 67      | 70      | 82      | 0     |
| AB35511 MSD | 50      | 55      | 53      | 58      | 62      | 77      | 0     |
| AB35169     | 35      | 43      | 40      | 48      | 60      | 72      | 0     |
| AB35170     | 51      | 59      | 55      | 61      | 64      | 78      | 0     |
|             |         |         |         |         |         |         |       |
|             |         |         |         |         |         |         |       |

# Column used to flag recovery values

\* = Values outside of required QC limits

ND = Not Detected

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



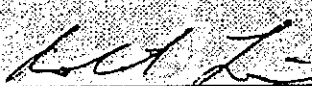
QA/QC Officer

Comments:

# General Chemistry Method Blank Summary

|                        |                                |
|------------------------|--------------------------------|
| Lab Name: EcoSys, Inc. | Client: ACE-SAD                |
| Ledger: 107849         |                                |
| Lab Sample ID: AB35172 | Client Sample ID: Method Blank |

|    | ANALYTE    | BLANK<br>VALUE | MDL<br>mg/Kg | DATE<br>ANALYZED |
|----|------------|----------------|--------------|------------------|
| 1  | TRPH 9071A | <MDL           | 10.0         | 7/5/96           |
| 2  |            |                |              |                  |
| 3  |            |                |              |                  |
| 4  |            |                |              |                  |
| 5  |            |                |              |                  |
| 6  |            |                |              |                  |
| 7  |            |                |              |                  |
| 8  |            |                |              |                  |
| 9  |            |                |              |                  |
| 10 |            |                |              |                  |
| 11 |            |                |              |                  |
| 12 |            |                |              |                  |
| 13 |            |                |              |                  |
| 14 |            |                |              |                  |
| 15 |            |                |              |                  |
| 16 |            |                |              |                  |
| 17 |            |                |              |                  |
| 18 |            |                |              |                  |
| 19 |            |                |              |                  |
| 20 |            |                |              |                  |
| 21 |            |                |              |                  |
| 22 |            |                |              |                  |
| 23 |            |                |              |                  |
| 24 |            |                |              |                  |



QA/QC Officer

Comments:

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General Chemistry Duplicate Recovery

Lab Name: EcoSys, Inc.

Client: ACE-SAD

Ledger No(s): 107849

Sample AB35169

|            | Sample Result<br>(mg/Kg) | Dup. Sample<br>Result (mg/Kg) | % RPD |
|------------|--------------------------|-------------------------------|-------|
| TRPH 9071A | 109                      | 107                           | 1.9   |

RPD Limit 20%

NR = Not Required

ND = Not Detected

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



QA/QC Officer

Comments:

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**General Chemistry LCS/LCSD Recovery**

|                               |                        |
|-------------------------------|------------------------|
| <b>Lab Name:</b> EcoSys, Inc. | <b>Client:</b> ACE-SAD |
| <b>Ledger No(s):</b> 107849   |                        |

**LCS**

|            | Spike Added<br>mg/Kg | Sample Conc.<br>mg/Kg | LCS Conc.<br>mg/Kg | LCS %<br>Recovery | QC Limits<br>Required |
|------------|----------------------|-----------------------|--------------------|-------------------|-----------------------|
| TRPH 9071A | 133                  | NR                    | 136                | 102               | 80-120                |

**LCSD**

|            | LCSD Conc.<br>mg/Kg | LCSD %<br>Recovery | % RPD | % RPD<br>Limits |
|------------|---------------------|--------------------|-------|-----------------|
| TRPH 9071A | 133                 | 100                | 2.2   | 20              |

NR = Not Required

ND = Not Detected

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



QA/QC Officer

Comments:

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

District - SAVANNAH  
Data Received - 96/06/25  
Date Reported - 96/07/12 16:37:02  
FT. STEWART ARMY AF  
Requisition - PMS-96-109  
Work Order - 7996 Job Number - 3969

| Lab # | Field ID   | Date Sampled | Time Sampled |
|-------|------------|--------------|--------------|
| 29349 | #242-T1-S1 | 96/06/24     | 12:05        |

| Test Performed              | Result | Units | Tested By | Test Date |
|-----------------------------|--------|-------|-----------|-----------|
| TOTAL SOLIDS, % OF WET      | 87.80  | %     | SPA       | 96/06/28  |
| AROMATIC VOLATILE ORGANICS  | *      |       | SPA       | 96/06/28  |
| SEMIVOLATILE ORGANICS GC/MS | *      |       | SPA       | 96/06/28  |
| TRPH                        | 441.0  | MG/KG | SPA       | 96/06/28  |

\*NOTE: See Attached

Sampled by District Personnel

Checked by: BT

Signed by:

*Blaise Willis*  
Blaise Willis  
Chemist

Sheet 1 of 2

I # Field ID  
-----  
50 TRIP BLANK

Date Sampled  
-----  
96/06/24

Time Sampled  
-----  
00:00

Test Performed  
-----  
AROMATIC VOLATILE ORGANICS

Result  
-----  
\*

Units  
-----

Tested  
By

Test  
Date

SPA

96/06/27

\*NOTE: See Attached

Sampled by District Personnel

Checked by: BT

Signed by:

*Blaise Willis*

Blaise Willis  
Chemist

at 2 of 2

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

DATE: 6/25/96

Number of coolers 1 Returned cooler(s) to: 0

PROJECT: FT. STEWART W.O.# \_\_\_\_\_ JOB# 3969

Coolers(s) opened by (print name) DR. G. M. T. ... (sign) [Signature]

1. Did cooler come with shipping slip? ☒ yes ☐ no  
If yes, enter Tracking Number here 151 103 H28 3 (BUS)

2. Were custody seals on out side of cooler?  
How many? 4 Date on seal(s) 6/21/96 Name on seal(s) L.K.O. ☒ 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: 17°C

7. Describe cooler packing: Ice 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 ☒ N/A

13. Was a sufficient amount of sample sent for test? ☒ yes ☐ no

14. Were bubbles absent in Volatile sample(s)? ☒ yes ☐ no ☐ N/A

If no, list field ID# \_\_\_\_\_

15. Numbers of days from sample date, samples received in Lab 4 days

16. Number of Samples: 2 Sample Type: ☐ soil ☐ water ☐ other \_\_\_\_\_

SAMPLE ANALYSIS PERFORMED BY: SA TAT [Signature]

COMMENTS: \_\_\_\_\_

17. Did you sign custody papers in the appropriate place? ☒ yes ☐ no

LAB NUMBER(S): 29349-50

SIGNATURE [Signature]

ANDERSON COLUMBIA  
ENVIRONMENTAL, INC.  
CUSTODY RECORD

Page 4 of 4

WASTE OIL TANKS

| Project No. | Project Name | Sample Number | Date    | Time  | Q | Q | Sample Location | No. of Containers | Reference | Received by: | Date / Time | Relinquished by: | Date / Time | Remarks |
|-------------|--------------|---------------|---------|-------|---|---|-----------------|-------------------|-----------|--------------|-------------|------------------|-------------|---------|
| #801        | FT. STEWART  | 242-21-51     | 6/24/76 | 12:05 |   |   | TANK #1         | 3                 | -         | ✓            |             |                  |             |         |
|             |              | 242-21-52     | 6/24/76 |       |   |   | D.I. WATER      | 2                 | HCL       | ✓            |             |                  |             |         |
|             |              | 242-21-53     | 6/24/76 |       |   |   | "               | 1                 | -         |              |             |                  |             |         |
|             |              | 242-21-54     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-55     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-56     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-57     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-58     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-59     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-60     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-61     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-62     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-63     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-64     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-65     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-66     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-67     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-68     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-69     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-70     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-71     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-72     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-73     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-74     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-75     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-76     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-77     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-78     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-79     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-80     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-81     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-82     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-83     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-84     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-85     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-86     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-87     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-88     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-89     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-90     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-91     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-92     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-93     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-94     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-95     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-96     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-97     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-98     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-99     | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |
|             |              | 242-21-100    | 6/24/76 |       |   |   |                 |                   |           |              |             |                  |             |         |

Relinquished by: *James J. Kennedy* Date / Time: 6/24/76 / 15:40  
 Received by: *John P. [Signature]*  
 Relinquished by: *James J. Kennedy* Date / Time: 6/24/76 / 15:40  
 Received by: *John P. [Signature]*  
 Relinquished by: *James J. Kennedy* Date / Time: 6/24/76 / 15:40  
 Received by: *John P. [Signature]*



# ECOSYS

LABORATORY SERVICES

## ANALYTICAL REPORT

1412 Oakbrook Drive  
Suite 105  
Cross, 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 107849  
P.O. Number  
Date Received 06/28/96  
Time Received 09:45  
Reporting Date 07/12/96

Lab Sample ID AB35169 Client Site # 29356  
Project # 3972 Client Sample # 244-T1-S1  
Project Name FT. STEWART  
Sampling Date/Time 06/24/96 16:50

| METHOD                                                     | ANALYTE                      | TEST CODE | RESULT    | MDL                | UNITS | Dilution<br>Factor | CAS #    | ANALYST | DATE OF<br>ANALYSIS |
|------------------------------------------------------------|------------------------------|-----------|-----------|--------------------|-------|--------------------|----------|---------|---------------------|
| Sample Comment Results are reported on a dry weight basis. |                              |           |           |                    |       |                    |          |         |                     |
| E C/MS) SOIL                                               |                              |           |           | Prep Date 07/08/96 |       | Batch 0708960001   |          |         |                     |
| 3270B                                                      | PHENOL                       | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 108-95-2 | BS      | 07/08/96            |
| 3270B                                                      | BIS(2-CHLOROETHYL) ETHER     | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 111-44-4 | BS      | 07/08/96            |
| 3270B                                                      | 2-CHLOROPHENOL               | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 95-57-8  | BS      | 07/08/96            |
| 3270B                                                      | 1,3-DICHLOROBENZENE          | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 541-73-1 | BS      | 07/08/96            |
| 3270B                                                      | 1,4-DICHLOROBENZENE          | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 108-46-7 | BS      | 07/08/96            |
| 3270B                                                      | 1,2-DICHLOROBENZENE          | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 95-50-1  | BS      | 07/08/96            |
| 3270B                                                      | BIS(2-CHLOROISOPROPYL) ETHER | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 108-60-1 | BS      | 07/08/96            |
| 3270B                                                      | 2-METHYLPHENOL               | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 95-48-7  | BS      | 07/08/96            |
| 3270B                                                      | 4-METHYLPHENOL               | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 106-44-5 | BS      | 07/08/96            |
| 3270B                                                      | N-NITROSODI-N-PROPYLAMINE    | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 621-64-7 | BS      | 07/08/96            |
| 3270B                                                      | HEXACHLOROETHANE             | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 67-72-1  | BS      | 07/08/96            |
| 3270B                                                      | NITROBENZENE                 | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 98-95-3  | BS      | 07/08/96            |
| 3270B                                                      | ISOPHORONE                   | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 78-59-1  | BS      | 07/08/96            |
| 3270B                                                      | 2-NITROPHENOL                | \$06013   | Below MDL | 757                | ug/Kg | 1.0                | 88-75-5  | BS      | 07/08/96            |
| 3270B                                                      | 2,4-DIMETHYLPHENOL           | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 105-67-9 | BS      | 07/08/96            |
| 3270B                                                      | BIS(2-CHLOROETHOXY)METHANE   | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 111-91-1 | BS      | 07/08/96            |
| 3270B                                                      | 2,4-DICHLOROPHENOL           | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 120-83-2 | BS      | 07/08/96            |
| 3270B                                                      | 1,2,4-TRICHLOROBENZENE       | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 120-82-1 | BS      | 07/08/96            |
| 3270B                                                      | NAPHTHALENE                  | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 91-20-3  | BS      | 07/08/96            |
| 3270B                                                      | 4-CHLOROANILINE              | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 108-47-8 | BS      | 07/08/96            |
| 3270B                                                      | HEXACHLOROBUTADIENE          | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 87-68-3  | BS      | 07/08/96            |
| 3270B                                                      | 4-CHLORO-3-METHYLPHENOL      | \$06013   | Below MDL | 757                | ug/Kg | 1.0                | 59-50-7  | BS      | 07/08/96            |
| 3270B                                                      | 2-METHYLNAPHTHALENE          | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 91-57-6  | BS      | 07/08/96            |
| 3270B                                                      | HEXACHLOROCYCLOPENTADIENE    | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 77-47-4  | BS      | 07/08/96            |
| 3270B                                                      | 2,4,6-TRICHLOROPHENOL        | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 88-08-2  | BS      | 07/08/96            |
| 3270B                                                      | 2,4,5-TRICHLOROPHENOL        | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 95-95-4  | BS      | 07/08/96            |
| 3270B                                                      | 2-CHLORONAPHTHALENE          | \$06013   | Below MDL | 378                | ug/Kg | 1.0                | 91-58-7  | BS      | 07/08/96            |

Lab Sample IDAB35169Client Site #29356Project #3972Client Sample #244-T1-S1Pl NameFT. STEWARTSampling Date/Time06/24/9616:50

| D | ANALYTE | TEST CODE | RESULT | MDL | UNITS | Dilution Factor | CAS # | ANALYST | DATE OF ANALYSIS |
|---|---------|-----------|--------|-----|-------|-----------------|-------|---------|------------------|
|---|---------|-----------|--------|-----|-------|-----------------|-------|---------|------------------|

Sample Comment Results are reported on a dry weight basis.

| SEMI (GC/MS) SOIL |                             |         |           | Prep Date 07/08/96 |       | Batch 0708960001 |            |    |          |
|-------------------|-----------------------------|---------|-----------|--------------------|-------|------------------|------------|----|----------|
| 8270B             | 2-NITROANILINE              | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 88-74-4    | BS | 07/08/96 |
| 8270B             | DIMETHYL PHTHALATE          | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 131-11-3   | BS | 07/08/96 |
| 8270B             | ACENAPHTHYLENE              | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 208-98-8   | BS | 07/08/96 |
| 8270B             | 2,6-DINITROTOLUENE          | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 608-20-2   | BS | 07/08/96 |
| 8270B             | 3-NITROANILINE              | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 99-09-2    | BS | 07/08/96 |
| 8270B             | ACENAPHTHENE                | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 83-32-9    | BS | 07/08/96 |
| 8270B             | 2,4-DINITROPHENOL           | \$06013 | Below MDL | 1892               | ug/Kg | 1.0              | 51-28-5    | BS | 07/08/96 |
| 8270B             | 4-NITROPHENOL               | \$06013 | Below MDL | 1892               | ug/Kg | 1.0              | 100-02-7   | BS | 07/08/96 |
| 8270B             | DIBENZOFURAN                | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 132-84-9   | BS | 07/08/96 |
| 8270B             | 2,4-DINITROTOLUENE          | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 121-14-2   | BS | 07/08/96 |
| 8270B             | DIETHYL PHTHALATE           | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 84-68-2    | BS | 07/08/96 |
| 8270B             | 4-CHLOROPHENYL PHENYL ETHER | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 7005-72-3  | BS | 07/08/96 |
| 8270B             | FLUORENE                    | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 88-73-7    | BS | 07/08/96 |
| 8270B             | 4-NITROANILINE              | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 100-01-8   | BS | 07/08/96 |
| 8270B             | 2-METHYL-4,6-DINITROPHENOL  | \$06013 | Below MDL | 1892               | ug/Kg | 1.0              | 534-52-1   | BS | 07/08/96 |
| 8270B             | N-NITROSODIPHENYLAMINE      | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 88-30-8    | BS | 07/08/96 |
| 8270B             | 4-BROMOPHENYL PHENYL ETHER  | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 101-55-3   | BS | 07/08/96 |
| 8270B             | HEXACHLOROBENZENE           | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 118-74-1   | BS | 07/08/96 |
| 8270B             | PENTACHLOROPHENOL           | \$06013 | Below MDL | 1892               | ug/Kg | 1.0              | 87-88-5    | BS | 07/08/96 |
| 8270B             | PHENANTHRENE                | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 85-01-8    | BS | 07/08/96 |
| 8270B             | ANTHRACENE                  | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 120-12-7   | BS | 07/08/96 |
| 8270B             | DI-N-BUTYL PHTHALATE        | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 84-74-2    | BS | 07/08/96 |
| 8270B             | FLUORANTHENE                | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 208-44-0   | BS | 07/08/96 |
| 8270B             | PYRENE                      | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 129-00-0   | BS | 07/08/96 |
| 8270B             | BUTYL BENZYL PHTHALATE      | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 85-88-7    | BS | 07/08/96 |
| 8270B             | 3,3'-DICHLOROBENZIDINE      | \$06013 | Below MDL | 757                | ug/Kg | 1.0              | 91-94-1    | BS | 07/08/96 |
| 8270B             | BENZO(A)ANTHRACENE          | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 58-55-3    | BS | 07/08/96 |
| 8270B             | BIS(2-ETHYLHEXYL) PHTHALATE | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 117-81-7   | BS | 07/08/96 |
| 8270B             | CHRYSENE                    | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 218-01-9   | BS | 07/08/96 |
| 8270B             | DI-N-OCTYL PHTHALATE        | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 117-84-0   | BS | 07/08/96 |
| 8270B             | BENZO(B)FLUORANTHENE        | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 205-99-2   | BS | 07/08/96 |
| 8270B             | BENZO(K)FLUORANTHENE        | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 207-08-9   | BS | 07/08/96 |
| 8270B             | BENZO(A)PYRENE              | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 50-32-8    | BS | 07/08/96 |
| 8270B             | INDENO(1,2,3-CD)PYRENE      | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 193-39-5   | BS | 07/08/96 |
| 8270B             | DIBENZO(A,H)ANTHRACENE      | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 53-70-3    | BS | 07/08/96 |
| 8270B             | BENZO(G,H,I)PERYLENE        | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 191-24-2   | BS | 07/08/96 |
| 8270B             | 2-FLUOROPHENOL (SURR)       | \$06013 | 35        | %                  | REC   | 1.0              | 387-12-4   | BS | 07/08/96 |
| 8270B             | PHENOL-D5 (SURR)            | \$06013 | 43        | %                  | REC   | 1.0              | 13127-88-3 | BS | 07/08/96 |
| 8270B             | NITROBENZENE-D5 (SURR)      | \$06013 | 40        | %                  | REC   | 1.0              | 4165-60-0  | BS | 07/08/96 |
| 8270B             | 2-FLUOROBIPHENYL (SURR)     | \$06013 | 48        | %                  | REC   | 1.0              | 321-60-8   | BS | 07/08/96 |
| 8270B             | 2,4,6-TRIBROMOPHENOL (SURR) | \$06013 | 60        | %                  | REC   | 1.0              | 118-79-6   | BS | 07/08/96 |
| 8270B             | TERPHENYL-D14 (SURR)        | \$06013 | 72        | %                  | REC   | 1.0              | 1718-51-0  | BS | 07/08/96 |
| 8270B             | CARBAZOLE                   | \$06013 | Below MDL | 378                | ug/Kg | 1.0              | 88-74-8    | BS | 07/08/96 |

| BTX (GC) SOIL |  |  |  | Prep Date 07/08/96 |  | Batch 070896B |  |  |  |
|---------------|--|--|--|--------------------|--|---------------|--|--|--|
|---------------|--|--|--|--------------------|--|---------------|--|--|--|

Lab Sample ID AB35169  
Project # 3972  
Project Name FT. STEWART  
Sampling Date/Time 06/24/96 16:50

Client Site # 29356  
Client Sample # 244-T1-S1

| JD | ANALYTE | TEST CODE | RESULT | MDL | UNITS | Dilution<br>Factor | CAS # | ANALYST | DATE OF<br>ANALYSIS |
|----|---------|-----------|--------|-----|-------|--------------------|-------|---------|---------------------|
|----|---------|-----------|--------|-----|-------|--------------------|-------|---------|---------------------|

Sample Comment Results are reported on a dry weight basis.

BTEX (GC) SOIL

Prep Date 07/08/96

Batch 070896B

|       |                               |         |           |     |       |     |           |     |          |
|-------|-------------------------------|---------|-----------|-----|-------|-----|-----------|-----|----------|
| 8020A | BENZENE                       | \$08006 | Below MDL | 1.1 | ug/Kg | 1.0 | 71-43-2   | DTA | 07/08/96 |
| 8020A | TOLUENE                       | \$08006 | Below MDL | 1.1 | ug/Kg | 1.0 | 108-88-3  | DTA | 07/08/96 |
| 8020A | ETHYLBENZENE                  | \$08006 | Below MDL | 1.1 | ug/Kg | 1.0 | 100-41-4  | DTA | 07/08/96 |
| 8020A | XYLENES (TOTAL)               | \$08006 | Below MDL | 1.1 | ug/Kg | 1.0 | 1330-20-7 | DTA | 07/08/96 |
| 8020A | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08006 | 77        | %   | REC   | 1.0 | 98-08-8   | DTA | 07/08/96 |
| 8020A | 4-BROMOFLUOROBENZENE (SURR)   | \$08006 | 69        | %   | REC   | 1.0 | 480-00-4  | DTA | 07/08/96 |
| 8020A | CHLOROBENZENE                 | \$08006 | Below MDL | 1.1 | ug/Kg | 1.0 | 108-90-7  | DTA | 07/08/96 |
| 8020A | 1,2-DICHLOROBENZENE           | \$08006 | Below MDL | 1.1 | ug/Kg | 1.0 | 95-50-1   | DTA | 07/08/96 |
| 8020A | 1,3-DICHLOROBENZENE           | \$08006 | Below MDL | 1.1 | ug/Kg | 1.0 | 541-73-1  | DTA | 07/08/96 |
| 8020A | 1,4-DICHLOROBENZENE           | \$08006 | Below MDL | 1.1 | ug/Kg | 1.0 | 106-46-7  | DTA | 07/08/96 |
| 8020A | TERT-METHYLBUTYL ETHER        | \$08006 | Below MDL | 1.1 | ug/Kg | 1.0 | 1634-04-4 | DTA | 07/08/96 |

Prep Date 07/04/96

Batch 070496

|       |           |       |     |      |       |     |  |    |          |
|-------|-----------|-------|-----|------|-------|-----|--|----|----------|
| 9071A | TRPH SOIL | 08041 | 125 | 11.5 | mg/Kg | 1.0 |  | ML | 07/05/96 |
|-------|-----------|-------|-----|------|-------|-----|--|----|----------|

Prep Date 07/03/96

Batch 070396

|   |                           |       |      |     |   |     |  |    |          |
|---|---------------------------|-------|------|-----|---|-----|--|----|----------|
| 1 | % TOTAL SOLIDS SOIL (N/C) | 09099 | 87.2 | 0.1 | % | 1.0 |  | MN | 07/03/96 |
|---|---------------------------|-------|------|-----|---|-----|--|----|----------|

Lab Sample ID AB35170  
Project # 3972  
Project Name FT. STEWART  
Sampling Date/Time 06/25/96 16:30

Client Site # 29357  
Client Sample # 261-T1-S1

| METHOD | ANALYTE | TEST CODE | RESULT | MDL | UNITS | Dilution<br>Factor | CAS # | ANALYST | DATE OF<br>ANALYSIS |
|--------|---------|-----------|--------|-----|-------|--------------------|-------|---------|---------------------|
|--------|---------|-----------|--------|-----|-------|--------------------|-------|---------|---------------------|

Sample Comment Results are reported on a dry weight basis.

SEMI (GC/MS) SOIL

Prep Date 07/08/96

Batch 0708960001

|       |                              |         |           |     |       |     |          |    |          |
|-------|------------------------------|---------|-----------|-----|-------|-----|----------|----|----------|
| 8270B | PHENOL                       | \$06013 | Below MDL | 379 | ug/Kg | 1.0 | 108-95-2 | BS | 07/08/96 |
| 8270B | BIS(2-CHLOROETHYL) ETHER     | \$06013 | Below MDL | 379 | ug/Kg | 1.0 | 111-44-4 | BS | 07/08/96 |
| 8270B | 2-CHLOROPHENOL               | \$06013 | Below MDL | 379 | ug/Kg | 1.0 | 95-57-8  | BS | 07/08/96 |
| 8270B | 1,3-DICHLOROBENZENE          | \$06013 | Below MDL | 379 | ug/Kg | 1.0 | 541-73-1 | BS | 07/08/96 |
| 8270B | 1,4-DICHLOROBENZENE          | \$06013 | Below MDL | 379 | ug/Kg | 1.0 | 106-46-7 | BS | 07/08/96 |
| 8270B | 1,2-DICHLOROBENZENE          | \$06013 | Below MDL | 379 | ug/Kg | 1.0 | 95-50-1  | BS | 07/08/96 |
| 8270B | BIS(2-CHLOROISOPROPYL) ETHER | \$06013 | Below MDL | 379 | ug/Kg | 1.0 | 108-80-1 | BS | 07/08/96 |
| 8270B | 2-METHYLPHENOL               | \$06013 | Below MDL | 379 | ug/Kg | 1.0 | 95-48-7  | BS | 07/08/96 |
| 8270B | 4-METHYLPHENOL               | \$06013 | Below MDL | 379 | ug/Kg | 1.0 | 108-44-5 | BS | 07/08/96 |
| 8270B | N-NITROSODI-N-PROPYLAMINE    | \$06013 | Below MDL | 379 | ug/Kg | 1.0 | 621-84-7 | BS | 07/08/96 |
| 8270B | HEXACHLOROETHANE             | \$06013 | Below MDL | 379 | ug/Kg | 1.0 | 67-72-1  | BS | 07/08/96 |
| 8270B | NITROBENZENE                 | \$06013 | Below MDL | 379 | ug/Kg | 1.0 | 98-95-3  | BS | 07/08/96 |
| 8270B | ISOPHORONE                   | \$06013 | Below MDL | 379 | ug/Kg | 1.0 | 78-59-1  | BS | 07/08/96 |
| 8270B | 2-NITROPHENOL                | \$06013 | Below MDL | 759 | ug/Kg | 1.0 | 88-75-5  | BS | 07/08/96 |
| 8270B | 2,4-DIMETHYLPHENOL           | \$06013 | Below MDL | 379 | ug/Kg | 1.0 | 105-67-9 | BS | 07/08/96 |
| 8270B | BIS(2-CHLOROETHOXY)METHANE   | \$06013 | Below MDL | 379 | ug/Kg | 1.0 | 111-91-1 | BS | 07/08/96 |

Lab Sample ID AB35170 Client Site # 29357  
 Project # 3972 Client Sample # 261-T1-S1  
 P : Name FT. STEWART  
 Sampling Date/Time 06/25/96 16:30

| ID | ANALYTE | TEST CODE | RESULT | MDL | UNITS | Dilution Factor | CAS # | ANALYST | DATE OF ANALYSIS |
|----|---------|-----------|--------|-----|-------|-----------------|-------|---------|------------------|
|----|---------|-----------|--------|-----|-------|-----------------|-------|---------|------------------|

Sample Comment Results are reported on a dry weight basis.

SEMI (GC/MS) SOIL

Prep Date 07/08/96

Batch 0708960001

|       |                             |         |           |      |       |     |           |    |          |
|-------|-----------------------------|---------|-----------|------|-------|-----|-----------|----|----------|
| 8270B | 2,4-DICHLOROPHENOL          | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 120-83-2  | BS | 07/08/96 |
| 8270B | 1,2,4-TRICHLOROBENZENE      | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 120-82-1  | BS | 07/08/96 |
| 8270B | NAPHTHALENE                 | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 91-20-3   | BS | 07/08/96 |
| 8270B | 4-CHLOROANILINE             | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 106-47-8  | BS | 07/08/96 |
| 8270B | HEXACHLOROBUTADIENE         | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 87-88-3   | BS | 07/08/96 |
| 8270B | 4-CHLORO-3-METHYLPHENOL     | \$06013 | Below MDL | 759  | ug/Kg | 1.0 | 59-50-7   | BS | 07/08/96 |
| 8270B | 2-METHYLNAPHTHALENE         | \$06013 | 517       | 379  | ug/Kg | 1.0 | 91-57-8   | BS | 07/08/96 |
| 8270B | HEXACHLOROCYCLOPENTADIENE   | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 77-47-4   | BS | 07/08/96 |
| 8270B | 2,4,6-TRICHLOROPHENOL       | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 88-08-2   | BS | 07/08/96 |
| 8270B | 2,4,5-TRICHLOROPHENOL       | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 95-95-4   | BS | 07/08/96 |
| 8270B | 2-CHLORONAPHTHALENE         | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 91-58-7   | BS | 07/08/96 |
| 8270B | 2-NITROANILINE              | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 88-74-4   | BS | 07/08/96 |
| 8270B | DIMETHYL PHTHALATE          | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 131-11-3  | BS | 07/08/96 |
| 8270B | ACENAPHTHYLENE              | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 208-98-8  | BS | 07/08/96 |
| 8270B | 2,6-DINITROTOLUENE          | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 608-20-2  | BS | 07/08/96 |
| 8     | 3-NITROANILINE              | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 99-08-2   | BS | 07/08/96 |
| 8270B | ACENAPHTHENE                | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 83-32-9   | BS | 07/08/96 |
| 8270B | 2,4-DINITROPHENOL           | \$06013 | Below MDL | 1897 | ug/Kg | 1.0 | 51-28-5   | BS | 07/08/96 |
| 8270B | 4-NITROPHENOL               | \$06013 | Below MDL | 1897 | ug/Kg | 1.0 | 100-02-7  | BS | 07/08/96 |
| 8270B | DIBENZOFURAN                | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 132-84-9  | BS | 07/08/96 |
| 8270B | 2,4-DINITROTOLUENE          | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 121-14-2  | BS | 07/08/96 |
| 8270B | DIETHYL PHTHALATE           | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 84-68-2   | BS | 07/08/96 |
| 8270B | 4-CHLOROPHENYL PHENYL ETHER | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 7005-72-3 | BS | 07/08/96 |
| 8270B | FLUORENE                    | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 86-73-7   | BS | 07/08/96 |
| 8270B | 4-NITROANILINE              | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 100-01-6  | BS | 07/08/96 |
| 8270B | 2-METHYL-4,6-DINITROPHENOL  | \$06013 | Below MDL | 1897 | ug/Kg | 1.0 | 534-52-1  | BS | 07/08/96 |
| 8270B | N-NITROSODIPHENYLAMINE      | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 88-30-8   | BS | 07/08/96 |
| 8270B | 4-BROMOPHENYL PHENYL ETHER  | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 101-55-3  | BS | 07/08/96 |
| 8270B | HEXACHLOROBENZENE           | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 118-74-1  | BS | 07/08/96 |
| 8270B | PENTACHLOROPHENOL           | \$06013 | Below MDL | 1897 | ug/Kg | 1.0 | 87-88-5   | BS | 07/08/96 |
| 8270B | PHENANTHRENE                | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 85-01-8   | BS | 07/08/96 |
| 8270B | ANTHRACENE                  | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 120-12-7  | BS | 07/08/96 |
| 8270B | DI-N-BUTYL PHTHALATE        | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 84-74-2   | BS | 07/08/96 |
| 8270B | FLUORANTHENE                | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 208-44-0  | BS | 07/08/96 |
| 8270B | PYRENE                      | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 129-00-0  | BS | 07/08/96 |
| 8270B | BUTYL BENZYL PHTHALATE      | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 85-68-7   | BS | 07/08/96 |
| 8270B | 3,3'-DICHLOROBENZIDINE      | \$06013 | Below MDL | 759  | ug/Kg | 1.0 | 91-94-1   | BS | 07/08/96 |
| 8270B | BENZO(A)ANTHRACENE          | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 58-55-3   | BS | 07/08/96 |
| 8     | BIS(2-ETHYLHEXYL) PHTHALATE | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 117-81-7  | BS | 07/08/96 |
| 8270B | CHRYSENE                    | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 218-01-9  | BS | 07/08/96 |
| 8270B | DI-N-OCTYL PHTHALATE        | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 117-84-0  | BS | 07/08/96 |
| 8270B | BENZO(B)FLUORANTHENE        | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 205-99-2  | BS | 07/08/96 |
| 8270B | BENZO(K)FLUORANTHENE        | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 207-08-9  | BS | 07/08/96 |
| 8270B | BENZO(A)PYRENE              | \$06013 | Below MDL | 379  | ug/Kg | 1.0 | 50-32-8   | BS | 07/08/96 |

Lab Sample ID AB35170  
Project # 3972  
Name FT. STEWART  
Sampling Date/Time 06/25/96 16:30

Client Site # 29357  
Client Sample # 261-T1-S1

| ANALYTE | TEST CODE | RESULT | MDL | UNITS | Dilution Factor | CAS # | ANALYST | DATE OF ANALYSIS |
|---------|-----------|--------|-----|-------|-----------------|-------|---------|------------------|
|---------|-----------|--------|-----|-------|-----------------|-------|---------|------------------|

Sample Comment Results are reported on a dry weight basis.

SEMI (GC/MS) SOIL

Prep Date 07/08/96

Batch 0708960001

|       |                             |         |           |           |     |            |    |          |
|-------|-----------------------------|---------|-----------|-----------|-----|------------|----|----------|
| 8270B | INDENO(1,2,3-CD)PYRENE      | \$06013 | Below MDL | 379 ug/Kg | 1.0 | 193-39-5   | BS | 07/08/96 |
| 8270B | DIBENZO(A,H)ANTHRACENE      | \$06013 | Below MDL | 379 ug/Kg | 1.0 | 53-70-3    | BS | 07/08/96 |
| 8270B | BENZO(G,H,I)PERYLENE        | \$06013 | Below MDL | 379 ug/Kg | 1.0 | 191-24-2   | BS | 07/08/96 |
| 8270B | 2-FLUOROPHENOL (SURR)       | \$06013 | 51        | % REC     | 1.0 | 387-12-4   | BS | 07/08/96 |
| 8270B | PHENOL-D5 (SURR)            | \$06013 | 59        | % REC     | 1.0 | 13127-88-3 | BS | 07/08/96 |
| 8270B | NITROBENZENE-D5 (SURR)      | \$06013 | 55        | % REC     | 1.0 | 4165-80-0  | BS | 07/08/96 |
| 8270B | 2-FLUOROBIPHENYL (SURR)     | \$06013 | 61        | % REC     | 1.0 | 321-80-8   | BS | 07/08/96 |
| 8270B | 2,4,6-TRIBROMOPHENOL (SURR) | \$06013 | 64        | % REC     | 1.0 | 118-79-8   | BS | 07/08/96 |
| 8270B | TERPHENYL-D14 (SURR)        | \$06013 | 78        | % REC     | 1.0 | 1718-51-0  | BS | 07/08/96 |
| 8270B | CARBAZOLE                   | \$06013 | Below MDL | 379 ug/Kg | 1.0 | 88-74-8    | BS | 07/08/96 |

ITEK (GC) SOIL

Prep Date 07/08/96

Batch 070896B

|       |                               |         |           |            |      |           |     |          |
|-------|-------------------------------|---------|-----------|------------|------|-----------|-----|----------|
| 8020A | BENZENE                       | \$08006 | Below MDL | 11.5 ug/Kg | 10.0 | 71-43-2   | DTA | 07/08/96 |
| 8020A | TOLUENE                       | \$08006 | 69        | 11.5 ug/Kg | 10.0 | 108-88-3  | DTA | 07/08/96 |
| 8020A | ETHYLBENZENE                  | \$08006 | 414       | 11.5 ug/Kg | 10.0 | 100-41-4  | DTA | 07/08/96 |
| 8020A | XYLENES (TOTAL)               | \$08006 | 1667      | 11.5 ug/Kg | 10.0 | 1330-20-7 | DTA | 07/08/96 |
| 8020A | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08006 | 94        | % REC      | 10.0 | 98-08-8   | DTA | 07/08/96 |
| 8020A | 4-BROMOFLUOROBENZENE (SURR)   | \$08006 | 896       | % REC      | 10.0 | 480-00-4  | DTA | 07/08/96 |
| 8020A | CHLOROBENZENE                 | \$08006 | Below MDL | 11.5 ug/Kg | 10.0 | 108-90-7  | DTA | 07/08/96 |
| 8020A | 1,2-DICHLOROBENZENE           | \$08006 | Below MDL | 11.5 ug/Kg | 10.0 | 95-50-1   | DTA | 07/08/96 |
| 8020A | 1,3-DICHLOROBENZENE           | \$08006 | Below MDL | 11.5 ug/Kg | 10.0 | 541-73-1  | DTA | 07/08/96 |
| 8020A | 1,4-DICHLOROBENZENE           | \$08006 | Below MDL | 11.5 ug/Kg | 10.0 | 108-46-7  | DTA | 07/08/96 |
| 8020A | TERT-METHYLBUTYL ETHER        | \$08006 | 40        | 11.5 ug/Kg | 10.0 | 1834-04-4 | DTA | 07/08/96 |

Prep Date 07/04/96

Batch 070496

|       |           |       |     |            |     |  |    |          |
|-------|-----------|-------|-----|------------|-----|--|----|----------|
| 9071A | TRPH SOIL | 08041 | 282 | 11.5 mg/Kg | 1.0 |  | ML | 07/05/96 |
|-------|-----------|-------|-----|------------|-----|--|----|----------|

Prep Date 07/03/96

Batch 070396

|       |                           |       |      |       |     |  |    |          |
|-------|---------------------------|-------|------|-------|-----|--|----|----------|
| 160.3 | % TOTAL SOLIDS SOIL (N/C) | 09099 | 87.0 | 0.1 % | 1.0 |  | MN | 07/03/96 |
|-------|---------------------------|-------|------|-------|-----|--|----|----------|

Lab Sample ID AB35171  
Project # 3972  
Project Name FT. STEWART  
Sampling Date/Time 06/25/96

Client Site # 29358  
Client Sample # TRIP BLANK

| METHOD | ANALYTE | TEST CODE | RESULT | MDL | UNITS | Dilution Factor | CAS # | ANALYST | DATE OF ANALYSIS |
|--------|---------|-----------|--------|-----|-------|-----------------|-------|---------|------------------|
|--------|---------|-----------|--------|-----|-------|-----------------|-------|---------|------------------|

ITEK (GC) WATER

Prep Date 07/09/96

Batch 070996B

|       |                               |         |           |          |     |           |     |          |
|-------|-------------------------------|---------|-----------|----------|-----|-----------|-----|----------|
| 8020A | BENZENE                       | \$08106 | Below MDL | 1.0 ug/L | 1.0 | 71-43-2   | DTA | 07/09/96 |
| 8020A | TOLUENE                       | \$08106 | Below MDL | 1.0 ug/L | 1.0 | 108-88-8  | DTA | 07/09/96 |
| 8020A | ETHYLBENZENE                  | \$08106 | Below MDL | 1.0 ug/L | 1.0 | 100-41-4  | DTA | 07/09/96 |
| 8020A | XYLENES (TOTAL)               | \$08106 | Below MDL | 1.0 ug/L | 1.0 | 1330-20-7 | DTA | 07/09/96 |
| 8020A | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08106 | 87        | % REC    | 1.0 | 98-08-8   | DTA | 07/09/96 |
| 8020A | 4-BROMOFLUOROBENZENE (SURR)   | \$08106 | 90        | % REC    | 1.0 | 480-00-4  | DTA | 07/09/96 |

Lab Sample ID AB35171 Client Site # 29358  
 Project # 3972 Client Sample # TRIP BLANK  
 Name FT. STEWART  
 Sampling Date/Time 06/25/96

| METHOD          | ANALYTE                | TEST CODE | RESULT           | MDL | UNITS | Dilution           | CAS #     | ANALYST       | DATE OF  |
|-----------------|------------------------|-----------|------------------|-----|-------|--------------------|-----------|---------------|----------|
|                 |                        |           |                  |     |       | Factor             |           |               | ANALYSIS |
| 3TEX (GC) WATER |                        |           |                  |     |       | Prep Date 07/09/96 |           | Batch 070996B |          |
| 8020A           | CHLOROBENZENE          | \$08106   | <i>Below MDL</i> | 1.0 | ug/L  | 1.0                | 108-90-7  | DTA           | 07/09/96 |
| 8020A           | 1,2-DICHLORO BENZENE   | \$08106   | <i>Below MDL</i> | 1.0 | ug/L  | 1.0                | 95-50-1   | DTA           | 07/09/96 |
| 8020A           | 1,3-DICHLORO BENZENE   | \$08106   | <i>Below MDL</i> | 1.0 | ug/L  | 1.0                | 541-73-1  | DTA           | 07/09/96 |
| 8020A           | 1,4-DICHLORO BENZENE   | \$08106   | <i>Below MDL</i> | 1.0 | ug/L  | 1.0                | 108-48-7  | DTA           | 07/09/96 |
| 8020A           | TERT-METHYLBUTYL ETHER | \$08106   | <i>Below MDL</i> | 1.0 | ug/L  | 1.0                | 1834-04-4 | DTA           | 07/09/96 |

Lab Sample ID AB35172 Client Site #  
 Project # 3972 Client Sample # METHOD BLANK SOIL  
 Project Name FT. STEWART  
 Sampling Date/Time / /

| METHOD            | ANALYTE                      | TEST CODE | RESULT    | MDL                | UNITS | Dilution<br>Factor | CAS #    | ANALYST | DATE OF<br>ANALYSIS |
|-------------------|------------------------------|-----------|-----------|--------------------|-------|--------------------|----------|---------|---------------------|
| HEMI (GC/MS) SOIL |                              |           |           | Prep Date 07/08/96 |       | Batch 0708960001   |          |         |                     |
| 8270B             | PHENOL                       | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 108-95-2 | BS      | 07/08/96            |
| 8                 | BIS(2-CHLOROETHYL) ETHER     | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 111-44-4 | BS      | 07/08/96            |
| 8270B             | 2-CHLOROPHENOL               | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 95-57-8  | BS      | 07/08/96            |
| 8                 | 1,3-DICHLOROBENZENE          | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 541-73-1 | BS      | 07/08/96            |
| 8                 | 1,4-DICHLOROBENZENE          | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 108-48-7 | BS      | 07/08/96            |
| 8270B             | 1,2-DICHLOROBENZENE          | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 95-50-1  | BS      | 07/08/96            |
| 8270B             | BIS(2-CHLOROISOPROPYL) ETHER | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 108-80-1 | BS      | 07/08/96            |
| 8270B             | 2-METHYLPHENOL               | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 95-48-7  | BS      | 07/08/96            |
| 8270B             | 4-METHYLPHENOL               | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 108-44-5 | BS      | 07/08/96            |
| 8270B             | N-NITROSODI-N-PROPYLAMINE    | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 621-84-7 | BS      | 07/08/96            |
| 8270B             | HEXACHLOROETHANE             | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 67-72-1  | BS      | 07/08/96            |
| 8270B             | NITROBENZENE                 | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 98-95-3  | BS      | 07/08/96            |
| 8270B             | ISOPHORONE                   | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 78-59-1  | BS      | 07/08/96            |
| 8270B             | 2-NITROPHENOL                | \$06013   | Below MDL | 660                | ug/Kg | 1.0                | 88-75-5  | BS      | 07/08/96            |
| 8270B             | 2,4-DIMETHYLPHENOL           | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 105-87-9 | BS      | 07/08/96            |
| 8270B             | BIS(2-CHLOROETHOXY)METHANE   | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 111-91-1 | BS      | 07/08/96            |
| 8270B             | 2,4-DICHLOROPHENOL           | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 120-83-2 | BS      | 07/08/96            |
| 8270B             | 1,2,4-TRICHLOROBENZENE       | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 120-82-1 | BS      | 07/08/96            |
| 8270B             | NAPHTHALENE                  | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 91-20-3  | BS      | 07/08/96            |
| 8270B             | 4-CHLOROANILINE              | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 108-47-8 | BS      | 07/08/96            |
| 8270B             | HEXACHLOROBUTADIENE          | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 87-68-3  | BS      | 07/08/96            |
| 8270B             | 4-CHLORO-3-METHYLPHENOL      | \$06013   | Below MDL | 660                | ug/Kg | 1.0                | 59-50-7  | BS      | 07/08/96            |
| 8270B             | 2-METHYLNAPHTHALENE          | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 91-57-6  | BS      | 07/08/96            |
| 8270B             | HEXACHLOROCYCLOPENTADIENE    | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 77-47-4  | BS      | 07/08/96            |
| 8                 | 2,4,6-TRICHLOROPHENOL        | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 88-08-2  | BS      | 07/08/96            |
| 8270B             | 2,4,5-TRICHLOROPHENOL        | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 95-95-4  | BS      | 07/08/96            |
| 8                 | 2-CHLORONAPHTHALENE          | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 91-58-7  | BS      | 07/08/96            |
| 8                 | 2-NITROANILINE               | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 88-74-4  | BS      | 07/08/96            |
| 8270B             | DIMETHYL PHTHALATE           | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 131-11-3 | BS      | 07/08/96            |
| 8270B             | ACENAPHTHYLENE               | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 208-98-8 | BS      | 07/08/96            |

Lab Sample IDAB35172Client Site #  
Project #3972Client Sample #METHOD BLANK SOIL  
PNameFT. STEWART  
Sampling Date/Time//

| MD                | ANALYTE                     | TEST CODE | RESULT    | MDL                | UNITS | Dilution<br>Factor | CAS #            | ANALYST | DATE OF<br>ANALYSIS |
|-------------------|-----------------------------|-----------|-----------|--------------------|-------|--------------------|------------------|---------|---------------------|
| SEMI (GC/MS) SOIL |                             |           |           | Prep Date 07/08/96 |       |                    | Batch 0708960001 |         |                     |
| 8270B             | 2,6-DINITROTOLUENE          | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 608-20-2         | BS      | 07/08/96            |
| 8270B             | 3-NITROANILINE              | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 99-09-2          | BS      | 07/08/96            |
| 8270B             | ACENAPHTHENE                | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 83-32-9          | BS      | 07/08/96            |
| 8270B             | 2,4-DINITROPHENOL           | \$06013   | Below MDL | 1650               | ug/Kg | 1.0                | 51-28-5          | BS      | 07/08/96            |
| 8270B             | 4-NITROPHENOL               | \$06013   | Below MDL | 1650               | ug/Kg | 1.0                | 100-02-7         | BS      | 07/08/96            |
| 8270B             | DIBENZOFURAN                | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 132-84-9         | BS      | 07/08/96            |
| 8270B             | 2,4-DINITROTOLUENE          | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 121-14-2         | BS      | 07/08/96            |
| 8270B             | DIETHYL PHTHALATE           | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 84-88-2          | BS      | 07/08/96            |
| 8270B             | 4-CHLOROPHENYL PHENYL ETHER | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 7005-72-3        | BS      | 07/08/96            |
| 8270B             | FLUORENE                    | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 86-73-7          | BS      | 07/08/96            |
| 8270B             | 4-NITROANILINE              | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 100-01-6         | BS      | 07/08/96            |
| 8270B             | 2-METHYL-4,6-DINITROPHENOL  | \$06013   | Below MDL | 1650               | ug/Kg | 1.0                | 534-52-1         | BS      | 07/08/96            |
| 8270B             | N-NITROSODIPHENYLAMINE      | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 86-30-6          | BS      | 07/08/96            |
| 8270B             | 4-BROMOPHENYL PHENYL ETHER  | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 101-55-3         | BS      | 07/08/96            |
| 8270B             | HEXACHLOROBENZENE           | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 118-74-1         | BS      | 07/08/96            |
| 8270B             | PENTACHLOROPHENOL           | \$06013   | Below MDL | 1650               | ug/Kg | 1.0                | 87-86-5          | BS      | 07/08/96            |
| 8270B             | PHENANTHRENE                | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 85-01-8          | BS      | 07/08/96            |
| 8270B             | ANTHRACENE                  | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 120-12-7         | BS      | 07/08/96            |
| 8270B             | DI-N-BUTYL PHTHALATE        | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 84-74-2          | BS      | 07/08/96            |
| 8270B             | FLUORANTHENE                | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 208-44-0         | BS      | 07/08/96            |
| 8270B             | PYRENE                      | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 129-00-0         | BS      | 07/08/96            |
| 8270B             | BUTYL BENZYL PHTHALATE      | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 85-88-7          | BS      | 07/08/96            |
| 8270B             | 3,3'-DICHLOROBENZIDINE      | \$06013   | Below MDL | 660                | ug/Kg | 1.0                | 91-94-1          | BS      | 07/08/96            |
| 8270B             | BENZO(A)ANTHRACENE          | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 56-55-3          | BS      | 07/08/96            |
| 8270B             | BIS(2-ETHYLHEXYL) PHTHALATE | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 117-81-7         | BS      | 07/08/96            |
| 8270B             | CHRYSENE                    | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 218-01-9         | BS      | 07/08/96            |
| 8270B             | DI-N-OCTYL PHTHALATE        | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 117-84-0         | BS      | 07/08/96            |
| 8270B             | BENZO(B)FLUORANTHENE        | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 205-99-2         | BS      | 07/08/96            |
| 8270B             | BENZO(K)FLUORANTHENE        | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 207-08-9         | BS      | 07/08/96            |
| 8270B             | BENZO(A)PYRENE              | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 50-32-8          | BS      | 07/08/96            |
| 8270B             | INDENO(1,2,3-CD)PYRENE      | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 193-39-5         | BS      | 07/08/96            |
| 8270B             | DIBENZO(A,H)ANTHRACENE      | \$06013   | Below MDL | 330                | ug/Kg | 4.0                | 53-70-3          | BS      | 07/08/96            |
| 8270B             | BENZO(G,H,I)PERYLENE        | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 191-24-2         | BS      | 07/08/96            |
| 8270B             | 2-FLUOROPHENOL (SURR)       | \$06013   | 63        | %                  | REC   | 1.0                | 387-12-4         | BS      | 07/08/96            |
| 8270B             | PHENOL-D5 (SURR)            | \$06013   | 69        | %                  | REC   | 1.0                | 13127-88-3       | BS      | 07/08/96            |
| 8270B             | NITROBENZENE-D5 (SURR)      | \$06013   | 65        | %                  | REC   | 1.0                | 4185-60-0        | BS      | 07/08/96            |
| 8270B             | 2-FLUOROBIPHENYL (SURR)     | \$06013   | 70        | %                  | REC   | 1.0                | 321-60-8         | BS      | 07/08/96            |
| 8270B             | 2,4,6-TRIBROMOPHENOL (SURR) | \$06013   | 64        | %                  | REC   | 1.0                | 118-79-6         | BS      | 07/08/96            |
| 8270B             | TERPHENYL-D14 (SURR)        | \$06013   | 84        | %                  | REC   | 1.0                | 1718-51-0        | BS      | 07/08/96            |
| 8270B             | CARBAZOLE                   | \$06013   | Below MDL | 330                | ug/Kg | 1.0                | 86-74-8          | BS      | 07/08/96            |
| BT (GC) SOIL      |                             |           |           | Prep Date 07/08/96 |       |                    | Batch 070896B    |         |                     |
| 8020A             | BENZENE                     | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0                | 71-43-2          | DTA     | 07/08/96            |
| 8020A             | TOLUENE                     | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0                | 108-88-3         | DTA     | 07/08/96            |
| 8020A             | ETHYLBENZENE                | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0                | 100-41-4         | DTA     | 07/08/96            |
| 8020A             | XYLENES (TOTAL)             | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0                | 1330-20-7        | DTA     | 07/08/96            |

Lab Sample ID AB35172 Client Site #  
 Project # 3972 Client Sample # METHOD BLANK SOIL  
 Project Name FT. STEWART  
 Sampling Date/Time / /

| METHOD         | ANALYTE                       | TEST CODE | RESULT    | MDL                | UNITS | Dilution Factor | CAS #         | ANALYST | DATE OF ANALYSIS |
|----------------|-------------------------------|-----------|-----------|--------------------|-------|-----------------|---------------|---------|------------------|
| ITEX (GC) SOIL |                               |           |           | Prep Date 07/08/96 |       |                 | Batch 070896B |         |                  |
| 8020A          | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08006   | 95        | %                  | REC   | 1.0             | 98-08-8       | DTA     | 07/08/96         |
| 8020A          | 4-BROMOFLUOROBENZENE (SURR)   | \$08006   | 100       | %                  | REC   | 1.0             | 480-00-4      | DTA     | 07/08/96         |
| 8020A          | CHLOROBENZENE                 | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0             | 108-90-7      | DTA     | 07/08/96         |
| 8020A          | 1,2-DICHLOROBENZENE           | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0             | 95-50-1       | DTA     | 07/08/96         |
| 8020A          | 1,3-DICHLOROBENZENE           | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0             | 541-73-1      | DTA     | 07/08/96         |
| 8020A          | 1,4-DICHLOROBENZENE           | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0             | 108-48-7      | DTA     | 07/08/96         |
| 8020A          | TERT-METHYLBUTYL ETHER        | \$08006   | Below MDL | 1.0                | ug/Kg | 1.0             | 1834-04-4     | DTA     | 07/08/96         |
|                |                               |           |           | Prep Date 07/04/96 |       |                 | Batch 070496  |         |                  |
| 9071A          | TRPH SOIL                     | 08041     | Below MDL | 10.0               | mg/Kg | 1.0             |               | ML      | 07/05/96         |

Lab Sample ID AB35173 Client Site #  
 Project # 3972 Client Sample # METHOD BLANK WATER  
 Project Name FT. STEWART  
 Sampling Date/Time / /

| METHOD      | ANALYTE                       | TEST CODE | RESULT    | MDL                | UNITS | Dilution Factor | CAS #         | ANALYST | DATE OF ANALYSIS |
|-------------|-------------------------------|-----------|-----------|--------------------|-------|-----------------|---------------|---------|------------------|
| ITF ) WATER |                               |           |           | Prep Date 07/09/96 |       |                 | Batch 070996B |         |                  |
| 8020A       | BENZENE                       | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 71-43-2       | DTA     | 07/09/96         |
| 8020A       | TOLUENE                       | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 108-88-8      | DTA     | 07/09/96         |
| 8020A       | ETHYLBENZENE                  | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 100-41-4      | DTA     | 07/09/96         |
| 8020A       | XYLENES (TOTAL)               | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 1330-20-7     | DTA     | 07/09/96         |
| 8020A       | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08106   | 92        | %                  | REC   | 1.0             | 98-08-8       | DTA     | 07/09/96         |
| 8020A       | 4-BROMOFLUOROBENZENE (SURR)   | \$08106   | 96        | %                  | REC   | 1.0             | 480-00-4      | DTA     | 07/09/96         |
| 8020A       | CHLOROBENZENE                 | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 108-90-7      | DTA     | 07/09/96         |
| 8020A       | 1,2-DICHLOROBENZENE           | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 95-50-1       | DTA     | 07/09/96         |
| 8020A       | 1,3-DICHLOROBENZENE           | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 541-73-1      | DTA     | 07/09/96         |
| 8020A       | 1,4-DICHLOROBENZENE           | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 108-48-7      | DTA     | 07/09/96         |
| 8020A       | TERT-METHYLBUTYL ETHER        | \$08106   | Below MDL | 1.0                | ug/L  | 1.0             | 1834-04-4     | DTA     | 07/09/96         |

Lab Sample ID AB35509 Client Site #  
 Project # 3972 Client Sample # LCS  
 Project Name FT. STEWART  
 Sampling Date/Time / /

| METHOD           | ANALYTE                | TEST CODE | RESULT | MDL                | UNITS | Dilution Factor | CAS #            | ANALYST | DATE OF ANALYSIS |
|------------------|------------------------|-----------|--------|--------------------|-------|-----------------|------------------|---------|------------------|
| EMI (GC/MS) SOIL |                        |           |        | Prep Date 07/08/96 |       |                 | Batch 0708960001 |         |                  |
| 3270B            | 2-FLUOROPHENOL (SURR)  | \$06013   | 57     | %                  | REC   | 1.0             | 367-12-4         | BS      | 07/08/96         |
| 3270B            | PHENOL-D5 (SURR)       | \$06013   | 65     | %                  | REC   | 1.0             | 13127-88-3       | BS      | 07/08/96         |
| 3270B            | NITROBENZENE-D5 (SURR) | \$06013   | 61     | %                  | REC   | 1.0             | 4165-60-0        | BS      | 07/08/96         |

Lab Sample ID AB35509 Client Site #  
 Project # 3972 Client Sample # LCS  
 Name FT. STEWART  
 Sampling Date/Time / /

| METHOD           | ANALYTE                     | TEST CODE | RESULT | MDL UNITS          | Dilution Factor | CAS #            | ANALYST | DATE OF ANALYSIS |
|------------------|-----------------------------|-----------|--------|--------------------|-----------------|------------------|---------|------------------|
| EMI (GC/MS) SOIL |                             |           |        | Prep Date 07/08/96 |                 | Batch 0708960001 |         |                  |
| 8270B            | 2-FLUOROBIPHENYL (SURR)     | \$06013   | 67     | % REC              | 1.0             | 321-80-8         | BS      | 07/08/96         |
| 8270B            | 2,4,6-TRIBROMOPHENOL (SURR) | \$06013   | 70     | % REC              | 1.0             | 118-79-8         | BS      | 07/08/96         |
| 8270B            | TERPHENYL-D14 (SURR)        | \$06013   | 84     | % REC              | 1.0             | 1718-51-0        | BS      | 07/08/96         |

Lab Sample ID AB35510 Client Site #  
 Project # 3972 Client Sample # MS  
 Project Name FT. STEWART  
 Sampling Date/Time / /

| METHOD           | ANALYTE                     | TEST CODE | RESULT | MDL UNITS          | Dilution Factor | CAS #            | ANALYST | DATE OF ANALYSIS |
|------------------|-----------------------------|-----------|--------|--------------------|-----------------|------------------|---------|------------------|
| EMI (GC/MS) SOIL |                             |           |        | Prep Date 07/08/96 |                 | Batch 0708960001 |         |                  |
| 8270B            | 2-FLUOROPHENOL (SURR)       | \$06013   | 54     | % REC              | 1.0             | 387-12-4         | BS      | 07/08/96         |
| 8270B            | PHENOL-D5 (SURR)            | \$06013   | 60     | % REC              | 1.0             | 13127-88-3       | BS      | 07/08/96         |
| 8270B            | NITROBENZENE-D5 (SURR)      | \$06013   | 59     | % REC              | 1.0             | 4165-60-0        | BS      | 07/08/96         |
| 8270B            | 2-FLUOROBIPHENYL (SURR)     | \$06013   | 67     | % REC              | 1.0             | 321-80-8         | BS      | 07/08/96         |
| 8270B            | 2,4,6-TRIBROMOPHENOL (SURR) | \$06013   | 70     | % REC              | 1.0             | 118-79-8         | BS      | 07/08/96         |
| 8270B            | TERPHENYL-D14 (SURR)        | \$06013   | 82     | % REC              | 1.0             | 1718-51-0        | BS      | 07/08/96         |

Lab Sample ID AB35511 Client Site #  
 Project # 3972 Client Sample # MSD  
 Project Name FT. STEWART  
 Sampling Date/Time / /

| METHOD           | ANALYTE                     | TEST CODE | RESULT | MDL UNITS          | Dilution Factor | CAS #            | ANALYST | DATE OF ANALYSIS |
|------------------|-----------------------------|-----------|--------|--------------------|-----------------|------------------|---------|------------------|
| EMI (GC/MS) SOIL |                             |           |        | Prep Date 07/08/96 |                 | Batch 0708960001 |         |                  |
| 8270B            | 2-FLUOROPHENOL (SURR)       | \$06013   | 50     | % REC              | 1.0             | 387-12-4         | BS      | 07/08/96         |
| 8270B            | PHENOL-D5 (SURR)            | \$06013   | 55     | % REC              | 1.0             | 13127-88-3       | BS      | 07/08/96         |
| 8270B            | NITROBENZENE-D5 (SURR)      | \$06013   | 53     | % REC              | 1.0             | 4165-60-0        | BS      | 07/08/96         |
| 8270B            | 2-FLUOROBIPHENYL (SURR)     | \$06013   | 58     | % REC              | 1.0             | 321-80-8         | BS      | 07/08/96         |
| 8270B            | 2,4,6-TRIBROMOPHENOL (SURR) | \$06013   | 62     | % REC              | 1.0             | 118-79-8         | BS      | 07/08/96         |
| 8270B            | TERPHENYL-D14 (SURR)        | \$06013   | 77     | % REC              | 1.0             | 1718-51-0        | BS      | 07/08/96         |

Lab Sample ID AB35516 Client Site #  
 Project # 3972 Client Sample # LCS  
 Project Name FT. STEWART  
 Sampling Date/Time / /

| METHOD         | ANALYTE                       | TEST CODE | RESULT | MDL UNITS          | Dilution Factor | CAS #         | ANALYST | DATE OF ANALYSIS |
|----------------|-------------------------------|-----------|--------|--------------------|-----------------|---------------|---------|------------------|
| ITEX (GC) SOIL |                               |           |        | Prep Date 07/08/96 |                 | Batch 070896B |         |                  |
| 8020A          | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08006   | 104    | % REC              | 1.0             | 98-08-8       | DTA     | 07/08/96         |
| 8020A          | 4-BROMOFLUOROBENZENE (SURR)   | \$08006   | 104    | % REC              | 1.0             | 480-00-4      | DTA     | 07/08/96         |

Lab Sample ID AB35517 Client Site #  
 Project # 3972 Client Sample # MS  
 Project Name FT. STEWART  
 Sampling Date/Time / /

| METHOD         | ANALYTE                       | TEST CODE | RESULT | MDL UNITS          | Dilution Factor | CAS #         | ANALYST | DATE OF ANALYSIS |
|----------------|-------------------------------|-----------|--------|--------------------|-----------------|---------------|---------|------------------|
| ITEX (GC) SOIL |                               |           |        | Prep Date 07/08/96 |                 | Batch 070896B |         |                  |
| 8020A          | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08006   | 81     | % REC              | 1.0             | 98-08-8       | DTA     | 07/08/96         |
| 8020A          | 4-BROMOFLUOROBENZENE (SURR)   | \$08006   | 80     | % REC              | 1.0             | 480-00-4      | DTA     | 07/08/96         |

Lab Sample ID AB35518 Client Site #  
 Project # 3972 Client Sample # MSD  
 Project Name FT. STEWART  
 Sampling Date/Time / /

| METHOD         | ANALYTE                       | TEST CODE | RESULT | MDL UNITS          | Dilution Factor | CAS #         | ANALYST | DATE OF ANALYSIS |
|----------------|-------------------------------|-----------|--------|--------------------|-----------------|---------------|---------|------------------|
| ITEX (GC) SOIL |                               |           |        | Prep Date 07/08/96 |                 | Batch 070896B |         |                  |
| 8020A          | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08006   | 75     | % REC              | 1.0             | 98-08-8       | DTA     | 07/08/96         |
| 8020A          | 4-BROMOFLUOROBENZENE (SURR)   | \$08006   | 72     | % REC              | 1.0             | 480-00-4      | DTA     | 07/08/96         |

Lab Sample ID AB35567 Client Site #  
 Project # 3972 Client Sample # LCS  
 Project Name FT. STEWART  
 Sampling Date/Time / /

| METHOD          | ANALYTE                       | TEST CODE | RESULT | MDL UNITS          | Dilution Factor | CAS #         | ANALYST | DATE OF ANALYSIS |
|-----------------|-------------------------------|-----------|--------|--------------------|-----------------|---------------|---------|------------------|
| ITEX (GC) WATER |                               |           |        | Prep Date 07/09/96 |                 | Batch 070996B |         |                  |
| 8020A           | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08106   | 95     | % REC              | 1.0             | 98-08-8       | DTA     | 07/09/96         |
| 8020A           | 4-BROMOFLUOROBENZENE (SURR)   | \$08106   | 102    | % REC              | 1.0             | 480-00-4      | DTA     | 07/09/96         |

Lab Sample ID AB35568 Client Site #  
 Project # 3972 Client Sample # MS  
 Project Name FT. STEWART  
 Sampling Date/Time / /

| METHOD          | ANALYTE                       | TEST CODE | RESULT | MDL UNITS          | Dilution Factor | CAS #         | ANALYST | DATE OF ANALYSIS |
|-----------------|-------------------------------|-----------|--------|--------------------|-----------------|---------------|---------|------------------|
| MTEX (GC) WATER |                               |           |        | Prep Date 07/09/96 |                 | Batch 070996B |         |                  |
| 8020A           | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08106   | 87     | % REC              | 1.0             | 98-08-8       | DTA     | 07/09/96         |
| 8020A           | 4-BROMOFLUOROBENZENE (SURR)   | \$08106   | 90     | % REC              | 1.0             | 480-00-4      | DTA     | 07/09/96         |

Lab Sample ID AB35569 Client Site #  
 Project # 3972 Client Sample # MSD  
 Project Name FT. STEWART  
 Sampling Date/Time / /

| METHOD          | ANALYTE                       | TEST CODE | RESULT | MDL UNITS          | Dilution Factor | CAS #         | ANALYST | DATE OF ANALYSIS |
|-----------------|-------------------------------|-----------|--------|--------------------|-----------------|---------------|---------|------------------|
| MTEX (GC) WATER |                               |           |        | Prep Date 07/09/96 |                 | Batch 070996B |         |                  |
| 8020A           | A,A,A-TRIFLUOROTOLUENE (SURR) | \$08106   | 92     | % REC              | 1.0             | 98-08-8       | DTA     | 07/09/96         |
| 8020A           | 4-BROMOFLUOROBENZENE (SURR)   | \$08106   | 94     | % REC              | 1.0             | 480-00-4      | DTA     | 07/09/96         |

*Robert L. Linn*

Certifying Scientist

Dr. and Inorganics in Wastewater, Solids, and Wastes

NC R 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,

MI-DNR 998014380

Radioactive Materials License ISO 9000 EPA ID EPA Reg Waste GA APHIS Fed Lab ID US Army Corps of  
 GA-DNR 1283-1 A2LA:0594-01 GA-00058 GA-0001011006 S-3988 58-188334 Engineers Validation

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[illegible]

TAB 9

MANIFESTS

REYNOLDS CONSTRUCTION COMPANY 242

Highway 84 • P. O. Box 749

Ludowici, Georgia 31316

Office (912) 368-7488 • Plant (912) 876-8085

|                |                 |             |          |
|----------------|-----------------|-------------|----------|
| Date           | 19              | Load No.    | 4        |
| Customer       | Triple "R" Mgt. | Description | PCS soil |
| Project Number | RRR 104         |             |          |
| Location       | H. Stewart      | County      | Liberty  |

44,660 Net  
20080 lb Net tare  
00 lb Tare

20080 lb+ Gross  
11:23 AM AU 12 96

64740 lb Net  
00 lb Tare

64740 lb+ Gross  
11:18 AM AU 12 96

Chick  
Signature of Weigher

TONS:

22.35

TOTAL TONS:

85.83

Hendrix  
TRUCKER

44  
TRUCK NO.

Raymond H. Brown  
DRIVER

TICKET NO. 58821

711

| NON-HAZARDOUS WASTE MANIFEST                                                                                                                                                     |  | Manifest Document No.<br>200025                                                                   | 1. Page 1 of 1 |                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------|----------------|------------------------------|
| 2. Generator's Name and Mailing Address<br>Ft. Stewart<br>Hinesville, GA 31313                                                                                                   |  |                                                                                                   |                |                              |
| 3. Generator's Phone (912 ) 234-6579                                                                                                                                             |  |                                                                                                   |                |                              |
| 4. Transporter 1 Company Name<br>Hendricks Hauling                                                                                                                               |  |                                                                                                   |                |                              |
| 5. Transporter 2 Company Name                                                                                                                                                    |  |                                                                                                   |                |                              |
| 6. Designated Facility Name and Site Address<br>Triple R Management, Inc.<br>c/o Reynolds Constr Co.<br>Rt. 84<br>Ludowici, GA 31316                                             |  | A. Transporter's Phone<br>B. Transporter's Phone 912-427-6758<br>C. Facility's Phone 912-756-3655 |                |                              |
| 7. Waste Shipping Name and Description                                                                                                                                           |  | 8. Containers<br>No.                                                                              | Type           | 9. Total Quantity            |
| a. Petroleum Contaminated Soil                                                                                                                                                   |  | 1                                                                                                 | TT             | 18.00 CY                     |
| b.                                                                                                                                                                               |  |                                                                                                   |                |                              |
| c.                                                                                                                                                                               |  |                                                                                                   |                |                              |
| d.                                                                                                                                                                               |  |                                                                                                   |                |                              |
| Additional Descriptions for Materials Listed Above                                                                                                                               |  | E. Handling Codes for Wastes Listed Above                                                         |                |                              |
| 11. Special Handling Instructions and Additional Information<br><br>8101<br><br>Tank # 242                                                                                       |  |                                                                                                   |                |                              |
| 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<br>Tom C. Fry                                                                                                                                                 |  | Signature<br>Tom C. Fry                                                                           |                | Month Day Year<br>08/06/96   |
| 13. Transporter 1 Acknowledgement of Receipt of Materials                                                                                                                        |  | Printed/Typed Name<br>Raymond G. Baca                                                             |                | Signature<br>Raymond G. Baca |
| 14. Transporter 2 Acknowledgement of Receipt of Materials                                                                                                                        |  | Printed/Typed Name                                                                                |                | Signature                    |
| 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<br>Charles Pruitt                                                                                                                                             |  | Signature<br>Charles Pruitt                                                                       |                | Month Day Year<br>8/12/96    |

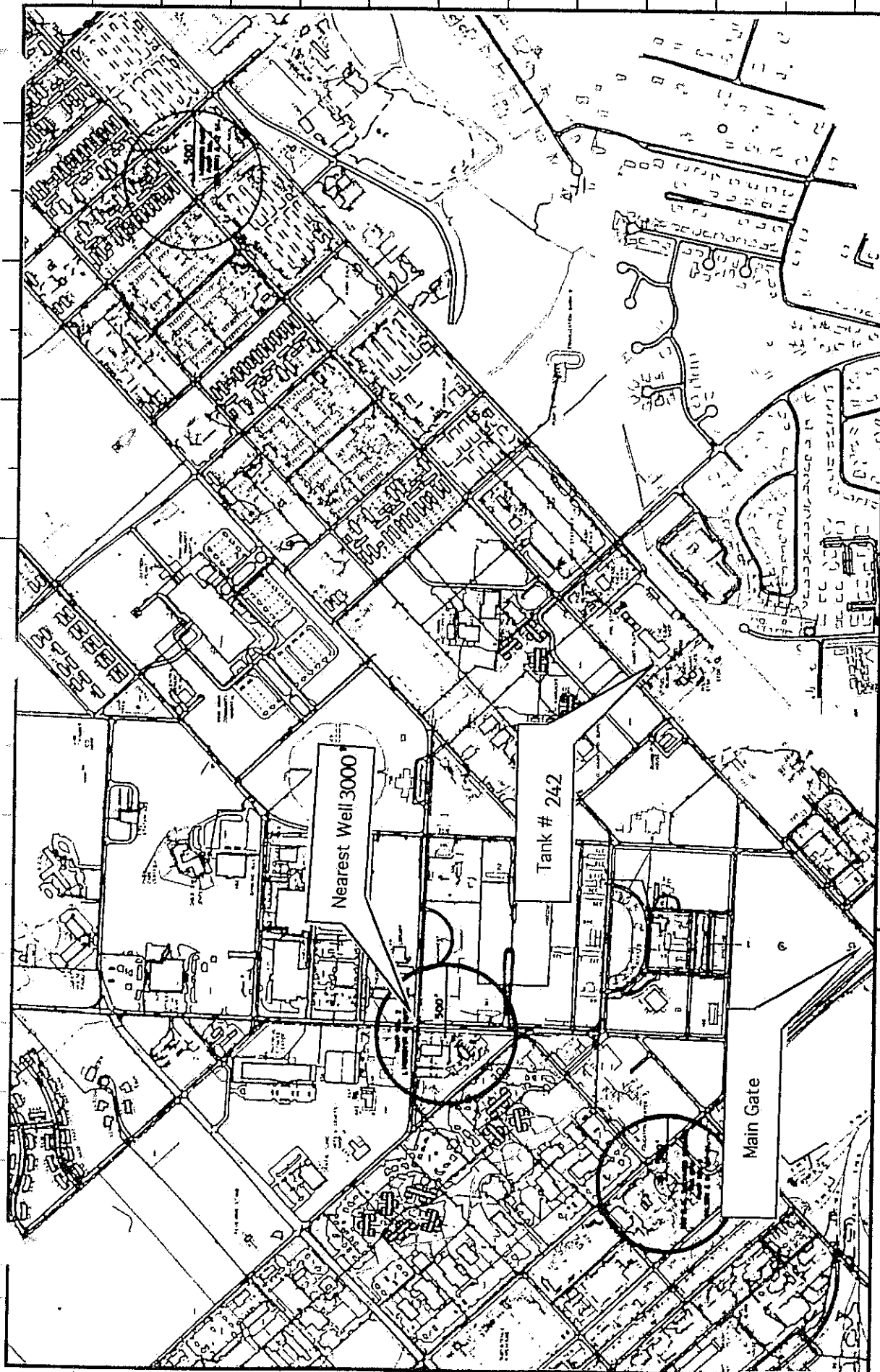
GENERATOR

TRANSPORTER

FACILITY

TAB 10

FORT STEWART AREA MAP



LEGEND/REF. DRWG'S

Base map of Fort Stewart.

ANDERSON COLUMBIA

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

DR. AJR CH'D SRC DR. APP. DFB

ENGR. ENGR'G DEPT.

DATE 9 Oct 96 SCALE 1"=1000'

Area Map for Tank #242

Fort Stewart

Hinesville, Georgia

DRAWING NO.: FIGURE 1