FORSCOM

Closure Report
Pumphouse #6
Facility ID# 9-025090

3d Inf Div (Mech)

Underground Storage Tanks #82, #83, #84, #85, #86, #87, #88, #89, #90, and #91
Defueling Tank #92
3rd Infantry Divison
Hunter Army Airfield
Savannah, Georgia

December 1998

Prepared for:
HAZARDOUS WASTE REMEDIAL ACTIONS PROGRAM
Oak Ridge, Tennessee 37831-7606
Managed by
LOCKHEED MARTIN ENERGY SYSTEMS, INC.
For the
U.S. DEPARTMENT OF ENERGY
under contract DE-AC05-84OR21400

Prepared by:
Earth Tech, Inc.
800 Oak Ridge Turnpike, Suite C-100
Oak Ridge, Tennessee 37830

DOCUMENT 10

CLOSURE REPORT

JP-4 Tanks
Pumphouse #6, Tanks #82, 83, 84, 85, 86, 87, 88, 89, 90, and 91
Facility ID #: 9-025090

Defueling Tank
Pumphouse #6, Tank #92
Facility ID #: 9-025090

3rd Infantry Division
Hunter Army Airfield, Georgia

Prepared for:
HAZARDOUS WASTE REMEDIAL ACTIONS PROGRAM
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December 1998

Hunter Army Airfield, Georgia
Underground Storage Tank Closure Report

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Tab 1
Closure Report Form

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

CLOSURE REPORT FORM

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

1. Owner of UST System:

Name: Tom Fry, Chief, Environmental Branch
Phone Number: (912) 767-2010/1078
Company: U.S. Army, 3rd Infantry Division (Mech) and Fort Stewart
Address: 1557 Frank Cochran Drive
Fort Stewart, GA 31314-4928
(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: Thomas C. Fry Date: 02/02/99

2. UST System Site Location:

Facility Name: Hunter Army Airfield (Pumphouse #6)
Street Address: Strachan Extension (Building 8070)
Savannah, GA 31402-5026
(city) (state) (zip code)
Facility ID#: 9-025090

3. Contractor 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: Mr. James Bauman
Address: P.O. Box 2003, Oak Ridge, TN 37831-7606

Signature: James Bauman Date: 12/28/98

4. Site-Specific Hydrogeology:

Depth to Groundwater: 5-7 ft, if encountered

☐ Not Applicable

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

- Tank Pit Area
- Piping Trenches
- Dispensers
- Sewer Lines (if present)
- Water Lines
- Tanks with their ID#s, corresponding to the Notification Form 7530-1
- Sample Locations (with sample numbers and depths)
- Scale 1 in = 80 ft
- North Arrow

Refer to Tab 5: Site Maps

6. Tank Removal:

- Date of Removal: April 29 to June 8
- Tank Information:

Tank #	Tank Size (gallons)	Tank Contents
82	50,000	JP-4
83	50,000	JP-4
84	50,000	JP-4
85	50,000	JP-4
86	50,000	JP-4
87	50,000	JP-4
88	50,000	JP-4
89	50,000	JP-4
90	50,000	JP-4
91	50,000	JP-4
Closure-In-Place 92	50,000	Defueling Tank

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

- Attach Amended Notification Form 7503-1
- Describe Soil Sampling Procedures (and groundwater, if encountered):
  See Tab 6 for amended notification form and soil/groundwater sampling information

7. Laboratory Analytical Data: The following items must be included on attached copies of the data:

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

Refer to Tab 7: Lab Data

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

☐ Gasoline ☐ Diesel ☐ Kerosene ☐ Used Oil ■ Other JP-4

Refer to Tab 7: Lab Data and/or Tab 9: Manifests

9. Excavation and Treatment/Disposal of Contaminated Soil:

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

_____ Tons **OR** _____2550_____ yd^3

☐ Not Applicable

10. Local Water Resources: Attach documentation only if Table B Soil Threshold Values and/or in-Stream Water Quality Standards are proposed for soil disposal, or No Further Action Required status. Check the applicable box(es).

☐ Drinking water supplies are NOT located in:

High or average groundwater pollution susceptibility area:* Refer to Tab 7: Lab Data and/or Tab 10: Area Map

Public water systems within 2.0 miles and
Non-public water systems within 0.5 miles

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: Intermittent floodplain and drainageway in the area of Pumphouse 6 are closest surface water bodies.

☐ **Not Applicable**

11. Conclusions and 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.

■ USTs Removed. Corrective Action Plans – Part A and B have been submitted for this facility.

Tab 4
Photodocumentation/Certificates of Destruction

Pumphouse #6: Pumphouse #6 prior to removal of USTs.

Pumphouse #6: Tank #86 excavation, view to west. Note fuel lines along right side of tank.

Pumphouse #6: Tank #86 removal.

Pumphouse #6: Tank #86 excavation area.

Pumphouse #6: Tank #86 being cut. Note no sludge in tank.

Pumphouse #6: Tank #85 in place.

Pumphouse #6: Tank #85 being loaded onto trailer prior to restaging at decontamination pad.

Pumphouse #6: Tanks #84, #83, and #82 being excavated.

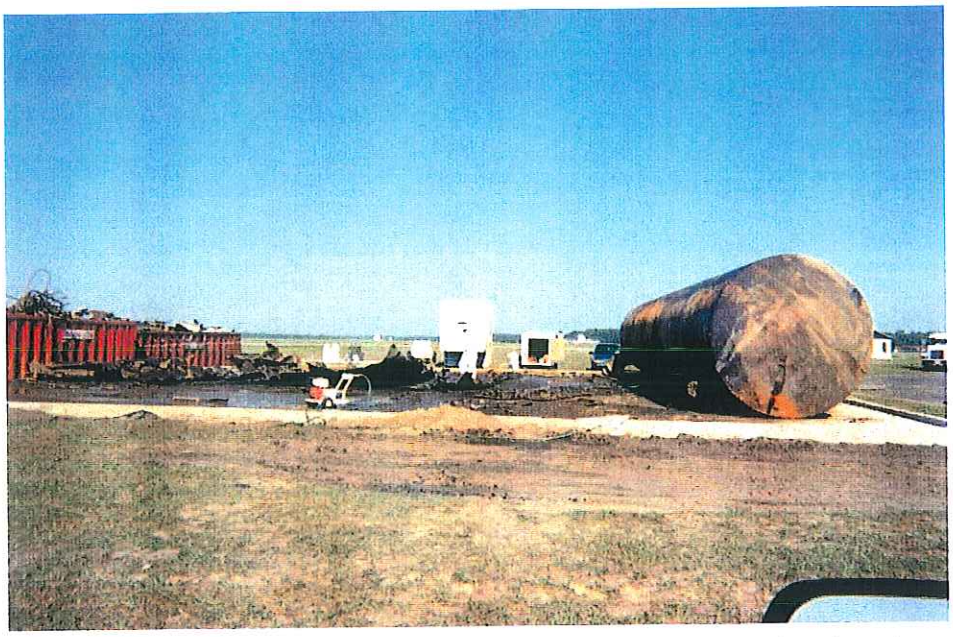
Pumphouse #6: Tank #84 being sheared.

Pumphouse #6: Tank #84 being excavated.

Pumphouse #6: Tank #83 being removed.

Pumphouse #6: Tank #82 being removed from excavation. Tank #89 in foreground.

Pumphouse #6: Excavation area after removal of tanks #83 and #82.



Pumphouse #6: Tank #84 staged at decontamination pad. Tank #83 being sheared and rinsed.

Pumphouse #6: Tank #82 being cut. Tank #83 is to the left.

Pumphouse #6: Tanks #87 (nearest building) and #88 ready for removal.

Pumphouse #6: Tank #87 after removal.

Pumphouse #6: Tank #87 being cut up for scrap and loaded.

Pumphouse #6: Tank #88 being decontaminated.

Pumphouse #6: Tanks #88 and #87 being cut for scrap.

Pumphouse #6: Tanks, from left to right, #89 and #90 after removal, being staged for movement to decontamination area.

Pumphouse #6: Tank #89 being unloaded at decontamination pad. Tank #88 to the left is being cut for disposal.

Pumphouse #6: Tanks #87 and #88 excavation area. From left to right, tanks still in ground, #89, #90, and #91.

Pumphouse #6: Tank #90 being removed from excavation.

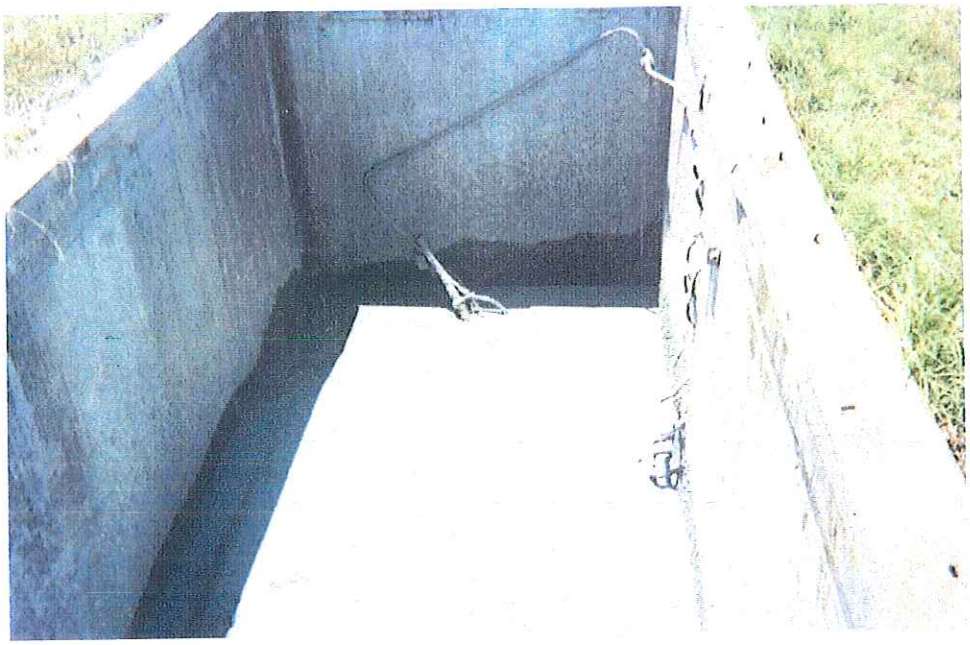
Pumphouse #6: Tank #91 being removed from excavation area.

Pumphouse #6: Tank #90 staged at decontamination pad. Tank #91 is being sheared in background.

Pumphouse #6: Rinsing Tank #91.

Pumphouse #6: Defuel Tank #92 Geoprobe sampling of HAA-PH6-6W-DF1. Groundwater 5.4' below ground surface. View to north, location southwest end of tank.

Pumphouse #6: 50,000-gallon defuel tank (#92) being filled with concrete.



Pumphouse #6: 50,000-gallon defueling tank (#92) at Pumphouse #6 after closure in place.

Pumphouse #6: View southwest of ongoing backfill activities.

Pumphouse #6: View northwest of backfilling activities.

Pumphouse #6: Final grading of tank removal area. View to southeast.

EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY

800 Oak Ridge Turpike
Suite C-100
Oak Ridge, Tennessee 37830
(423)483-9404 FAX (423)481-3834

Certificate of Tank Destruction

This certificate is issued by Earth Tech to:

Fort Stewart Department of Public Works

For the documentation of tank destruction as identified below:

Hunter Army Airfield, Pumphouse 6 Facility ID 9-025090

UST site name

Tank Type: _____ Aboveground Storage Tank X Underground Storage Tank

Tank Capacity/Size: 50,000 gallons Tank Registration (if known) 82

Tank was:

- Cleaned and decontaminated on (date): May 1, 1998
- Removed from site on (date): May 1, 1998
- Received by (company and/or person's name) Savannah Steel

Procedures for tank destruction were performed in accordance with all federal, state, and local requirements.

Jan McKee
Earth Tech, Inc.

26682
Earth Tech's job number

EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY

800 Oak Ridge Turpike
Suite C-100
Oak Ridge, Tennessee 37830
(423)483-9404 FAX (423)481-3834

Certificate of Tank Destruction

This certificate is issued by Earth Tech to:

Fort Stewart Department of Public Works

For the documentation of tank destruction as identified below:

Hunter Army Airfield, Pumphouse 6 Facility ID 9-025090

UST site name

Tank Type: _____ Aboveground Storage Tank X Underground Storage Tank

Tank Capacity/Size: 50,000 gallons Tank Registration (if known) 83

Tank was:

- Cleaned and decontaminated on (date): May 1, 1998
- Removed from site on (date): May 4, 1998
- Received by (company and/or person's name) Savannah Steel

Procedures for tank destruction were performed in accordance with all federal, state, and local requirements.

Jean McKee
Earth Tech, Inc.

26682
Earth Tech's job number

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A tyco INTERNATIONAL LTD. COMPANY

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Certificate of Tank Destruction

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Fort Stewart Department of Public Works

For the documentation of tank destruction as identified below:

Hunter Army Airfield, Pumphouse 6 Facility ID 9-025090

UST site name

Tank Type: _____ Aboveground Storage Tank X Underground Storage Tank

Tank Capacity/Size: 50,000 gallons Tank Registration (if known) 84

Tank was:

- Cleaned and decontaminated on (date): May 6, 1998
- Removed from site on (date): May 7, 1998
- Received by (company and/or person's name) Savannah Steel

Procedures for tank destruction were performed in accordance with all federal, state, and local requirements.

Jean McKee
Earth Tech, Inc.

26682
Earth Tech's job number

EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY

800 Oak Ridge Turpike
Suite C-100
Oak Ridge, Tennessee 37830
(423)483-9404 FAX (423)481-3834

Certificate of Tank Destruction

This certificate is issued by Earth Tech to:

Fort Stewart Department of Public Works

For the documentation of tank destruction as identified below:

Hunter Army Airfield, Pumphouse 6 Facility ID 9-025090

UST site name

Tank Type: _____ Aboveground Storage Tank X Underground Storage Tank

Tank Capacity/Size: 50,000 gallons Tank Registration (if known) 85

Tank was:

- Cleaned and decontaminated on (date): April 30, 1998
- Removed from site on (date): April 30, 1998
- Received by (company and/or person's name) Savannah Steel

Procedures for tank destruction were performed in accordance with all federal, state, and local requirements.

Jan McKee
Earth Tech, Inc.

26682
Earth Tech's job number

EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY

800 Oak Ridge Turpike
Suite C-100
Oak Ridge, Tennessee 37830
(423)483-9404 FAX (423)481-3834

Certificate of Tank Destruction

This certificate is issued by Earth Tech to:

Fort Stewart Department of Public Works

For the documentation of tank destruction as identified below:

Hunter Army Airfield, Pumphouse 6 Facility ID 9-025090

UST site name

Tank Type: _____ Aboveground Storage Tank X Underground Storage Tank

Tank Capacity/Size: 50,000 gallons Tank Registration (if known) 86

Tank was:

- Cleaned and decontaminated on (date): April 29, 1998
- Removed from site on (date): May 6, 1998
- Received by (company and/or person's name) Savannah Steel

Procedures for tank destruction were performed in accordance with all federal, state, and local requirements.

Jon McKee
Earth Tech, Inc.

26682
Earth Tech's job number

EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY

800 Oak Ridge Turpike
Suite C-100
Oak Ridge, Tennessee 37830
(423)483-9404 FAX (423)481-3834

Certificate of Tank Destruction

This certificate is issued by Earth Tech to:

Fort Stewart Department of Public Works

For the documentation of tank destruction as identified below:

Hunter Army Airfield, Pumphouse 6 Facility ID 9-025090

UST site name

Tank Type: _____ Aboveground Storage Tank X Underground Storage Tank

Tank Capacity/Size: 50,000 gallons Tank Registration (if known) 87

Tank was:

- Cleaned and decontaminated on (date): May 5, 1998
- Removed from site on (date): May 6, 1998
- Received by (company and/or person's name) Savannah Steel

Procedures for tank destruction were performed in accordance with all federal, state, and local requirements.

Jean McKee
Earth Tech, Inc.

26682
Earth Tech's job number

EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY

800 Oak Ridge Turpike
Suite C-100
Oak Ridge, Tennessee 37830
(423)483-9404 FAX (423)481-3834

Certificate of Tank Destruction

This certificate is issued by Earth Tech to:

Fort Stewart Department of Public Works

For the documentation of tank destruction as identified below:

Hunter Army Airfield, Pumphouse 6 Facility ID 9-025090

UST site name

Tank Type: _____ Aboveground Storage Tank X Underground Storage Tank

Tank Capacity/Size: 50,000 gallons Tank Registration (if known) 88

Tank was:

- Cleaned and decontaminated on (date): May 5, 1998
- Removed from site on (date): May 19, 1998
- Received by (company and/or person's name) Savannah Steel

Procedures for tank destruction were performed in accordance with all federal, state, and local requirements.

Jean McKee
Earth Tech, Inc.

26682
Earth Tech's job number

EARTH TECH
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Suite C-100
Oak Ridge, Tennessee 37830
(423)483-9404 FAX (423)481-3834

Certificate of Tank Destruction

This certificate is issued by Earth Tech to:

Fort Stewart Department of Public Works

For the documentation of tank destruction as identified below:

Hunter Army Airfield, Pumphouse 6 Facility ID 9-025090

UST site name

Tank Type: _____ Aboveground Storage Tank X Underground Storage Tank

Tank Capacity/Size: 50,000 gallons Tank Registration (if known) 89

Tank was:

- Cleaned and decontaminated on (date): May 5, 1998
- Removed from site on (date): May 8, 1998
- Received by (company and/or person's name) Savannah Steel

Procedures for tank destruction were performed in accordance with all federal, state, and local requirements.

Jean McKee
Earth Tech, Inc.

26682
Earth Tech's job number

EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY

800 Oak Ridge Turpike
Suite C-100
Oak Ridge, Tennessee 37830
(423)483-9404 FAX (423)481-3834

Certificate of Tank Destruction

This certificate is issued by Earth Tech to:

Fort Stewart Department of Public Works

For the documentation of tank destruction as identified below:

Hunter Army Airfield, Pumphouse 6 Facility ID 9-025090

UST site name

Tank Type: _____ Aboveground Storage Tank X Underground Storage Tank

Tank Capacity/Size: 50,000 gallons Tank Registration (if known) 90

Tank was:

- Cleaned and decontaminated on (date): May 6, 1998
- Removed from site on (date): May 18, 1998
- Received by (company and/or person's name) Savannah Steel

Procedures for tank destruction were performed in accordance with all federal, state, and local requirements.

Jean McKee
Earth Tech, Inc.

26682
Earth Tech's job number

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A tyco INTERNATIONAL LTD. COMPANY

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Suite C-100
Oak Ridge, Tennessee 37830
(423)483-9404 FAX (423)481-3834

Certificate of Tank Destruction

This certificate is issued by Earth Tech to:

Fort Stewart Department of Public Works

For the documentation of tank destruction as identified below:

Hunter Army Airfield, Pumphouse 6 Facility ID 9-025090

UST site name

Tank Type: _____ Aboveground Storage Tank X Underground Storage Tank

Tank Capacity/Size: 50,000 gallons Tank Registration (if known) 91

Tank was:

- Cleaned and decontaminated on (date): May 6, 1998
- Removed from site on (date): May 11, 1998
- Received by (company and/or person's name) Savannah Steel

Procedures for tank destruction were performed in accordance with all federal, state, and local requirements.

Jean McKee
Earth Tech, Inc.

26682
Earth Tech's job number

EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY

800 Oak Ridge Turnpike
Suite C-100
Oak Ridge, Tennessee 37830
(423)483-9404 FAX (423)481-3834

Certificate of In-Place Tank Closure

This certificate is issued by Earth Tech to:

Hunter Army Airfield
Fort Stewart Department of Public Works

For the documentation of in-place tank closure activities as identified below:

Hunter Army Airfield, Pumphouse 6, Facility ID #9-025090
UST site name

Tank Construction: X Steel _____ Concrete _____ Doubled walled

Tank Capacity/Size: 50,000 gallons Tank Registration (if known) 92

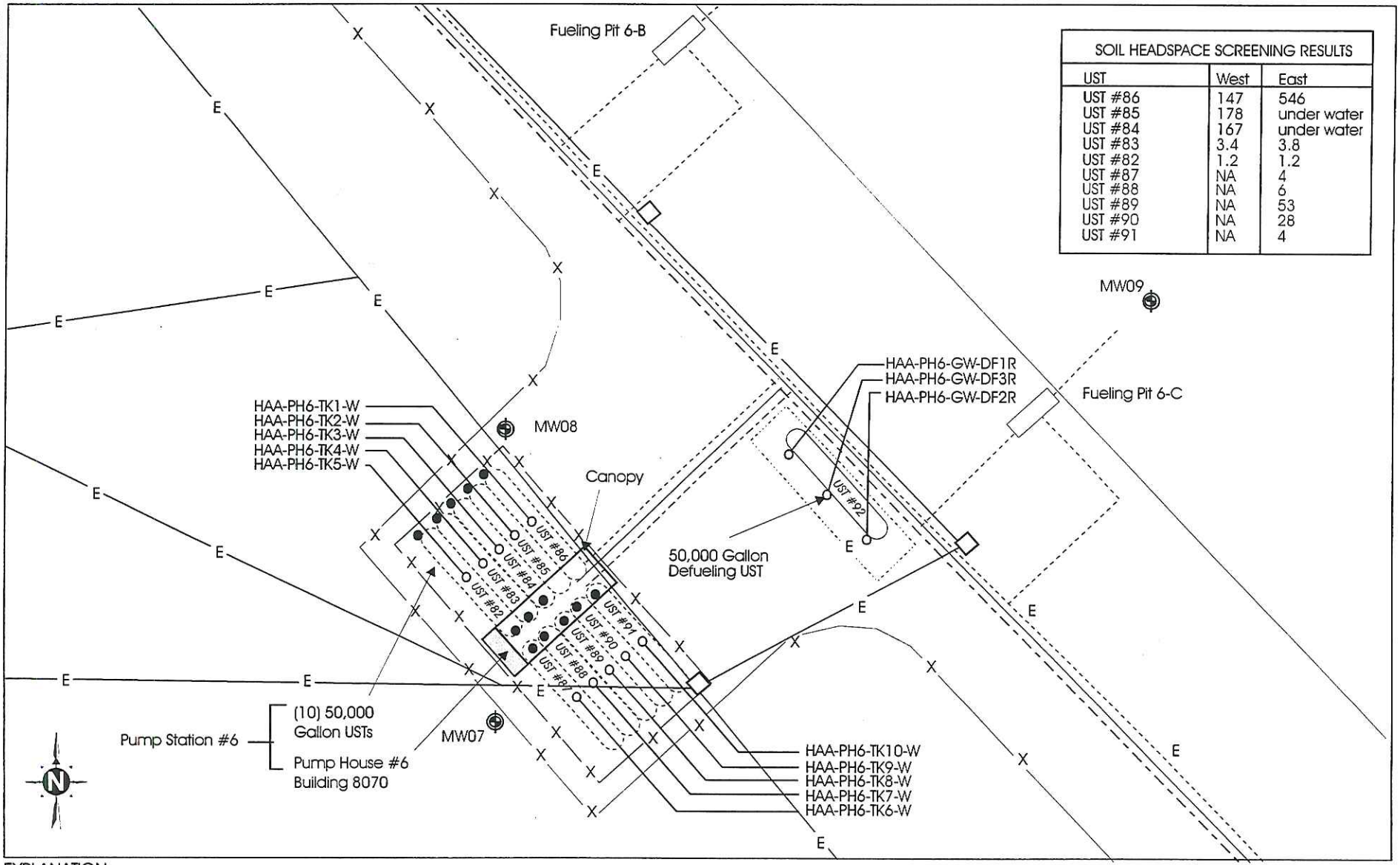
The tank was closed in-place (date): June 10, 1998
Cleaning method: Triple rinsed with high pressure washer and water
Fill material: Flow fill concrete and concrete debris
Fill Volume: Approximately 250 cubic yards

Procedures for in-place tank closure were performed in accordance with all federal, state, and local requirements.

Jan McKee
Earth Tech, Inc.

26682
Earth Tech's job number

Tab 5
Site Maps



SOIL HEADSPACE SCREENING RESULTS		
UST	West	East
UST #86	147	546
UST #85	178	under water
UST #84	167	under water
UST #83	3.4	3.8
UST #82	1.2	1.2
UST #87	NA	4
UST #88	NA	6
UST #89	NA	53
UST #90	NA	28
UST #91	NA	4

EXPLANATION

- Existing Groundwater Monitoring Well
- Groundwater Sampling Location
- Soil Headspace Screening Location
- 0 50 100 Feet
- 12 inch Fuel Line
- 6 inch Fuel Line
- Water Line
- Fence/Approximate Pit Excavation Area
- UST #81 — UST - Removed
- UST #92 — UST - Closed in Place
- Electrical Vault
- E — Electrical Utility Line

Infrastructure Well Locations are Approximate

26682.06/pump6.cdr 6/98

Site Map
Pumphouse #6
Facility ID# 9-025090
Hunter Army Airfield

Figure 5-1

26682.06/Mnn2.cdr

December, 1998

Tab 6
GUST Forms and Field Assessment Methods

GUST FORMS

The GUST-42 Forms included in this report are copies. The original forms were submitted on August 27, 1998 to the Georgia Environmental Protection Division, Underground Storage Tank Management Program.

FIELD ASSESSMENT METHODS

Soil Sampling

During removal of the underground storage tank (UST) systems, the tank pits filled with groundwater. No soil samples were submitted for laboratory analysis. Earth Tech, Inc. personnel did collect soil samples for field screening. Soil vapors were screened for volatile organic compounds (VOCs) with a Thermoscan 580 Photoionization Detector (PID). Calibration was performed prior to field sampling with a 76 parts per million isobutylene/air mixture. A PID reading of a soil sample was collected by filling a clean glass jar one-half full with soil and then the jar was capped with a Teflon® coated lid. The sample was allowed to volatilize for approximately 15 minutes. The lid was then partially removed and a piece of tygon tubing attached to the PID was inserted into the jar. An air sample from the headspace was analyzed for total VOCs. The results are reported in Table 6-1 and are shown on the site map in Tab 5.

Table 6-1. Total VOC Screening Results

Tank Number	West Side of Tank (ppm)	East Side of Tank (ppm)
91	147	546
90	178	Underwater
89	167	Underwater
88	3.4	3.8
87	1.2	1.2
86	Underwater	4
85	Underwater	6
84	Underwater	53
83	Underwater	28
82	Underwater	4

Groundwater Sampling

One groundwater sample was taken from the location of each fuel tank that was removed. Three samples were taken at the location of the defueling tank, #92, which was closed in place. The samples related to the tanks removed were labeled as HAA-PH6-TK1-W, HAA-PH6-TK2-W, HAA-PH6-TK3-W, HAA-PH6-TK4-W, HAA-PH6-TK5-W, HAA-PH6-TK6-W, HAA-PH6-TK7-W, HAA-PH6-TK8-W, HAA-PH6-TK9-W, and HAA-

PH6-TK10-W. Groundwater samples collected from the defuel tank were labeled HAA-PH6-GW-DF-1R, HAA-PH6-GW-DF-2R, and HAA-PH6-GW-DF-3R. A duplicate sample was taken at the location of Tank #86 (HAA-PH6-TK6-W-DUP). Groundwater entered the tank pit as the tanks were being removed. To collect the samples, precleaned sample containers provided by the laboratory were placed directly into the water and allowed to fill with water. Groundwater samples for volatile organic compounds (VOC) analyses were collected in precleaned and labeled VOC containers preserved with hydrochloric acid. Groundwater samples for semivolatile organic compounds analyses were collected in 1-liter amber jars. The samples were immediately placed on ice. The samples were shipped under Chain of Custody to Southwest Laboratory of Oklahoma, Inc. located in Broken Arrow, Oklahoma for analysis.

CLOSURE OF PIPING

The undersigned certifies that the piping associated with former Tanks #82 through #92, located at Building #8070, Hunter Army Airfield, Georgia, was either removed or pressure-grouted and left in place by Fort Stewart's contractor, Lockheed Martin Energy Systems/Earth Tech. The piping associated with the former JP-4 USTs was approximately 2,000 feet in length. Piping for Tanks #82 through #91 was removed. The piping associated with the former defueling UST (Tank #92) was approximately 4,000 feet in length. Piping for Tank #92 was drained, pigged, pressure-grouted, and left in place. No samples were collected for laboratory analysis during the closure of the piping. See Tab 7 for an explanation.

Name: Thomas C. Fry Title: Chief, Environmental Branch

Signature: _____ Date: _____

Georgia Department of Natural Resources

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

RECEIVED
Data Management
7/7

Route To: File

NOTICE DATE: _____

GEORGIA UNDERGROUND STORAGE TANK (GUST) CLOSURE ACTIVITY FORM

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

I. FACILITY INFORMATION:

Facility Name: HUNTER ARMY AIRFIELD (PUMPHOUSE #6)

Contact Person: MR JOHN SPEARS Telephone: (912) 767-1071/2010

Address (location; P.O. Box not acceptable): STRACHAN EXTENSION (BLDG 8070)

City: SAVANNAH County: CHATHAM Zip Code: 31402-5026

Facility ID (if known): 9-025090 Date Tanks Last Used: JAN 71

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

Tank ID: 82 Tank Size (gal): 50,000 Contents: JP-4

Tank ID: 83 Tank Size (gal): 50,000 Contents: JP-4

Tank ID: 84 Tank Size (gal): 50,000 Contents: JP-4

Tank ID: 85 Tank Size (gal): 50,000 Contents: JP-4

Tank ID: 86 Tank Size (gal): 50,000 Contents: JP-4

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

UST Owner Name: 3rd INFANTRY DIVISION (MECH) / ENVIRONMENTAL BRANCH

Contact Person: MR. JOHN SPEARS Telephone: (912) 767-1071/2010

Mailing Address: 1557 FRANK COCHRAN DRIVE

City: FORT STEWART State: GA Zip Code: 31314-4928

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

Company or Organization Name: LOCKHEAD MARTIN

Contractor Representative Name: MR JAMES BOWMAN Telephone: (423) 241-9492

Address: P.O. BOX 2003

City: OAK RIDGE State: TN Zip Code: 37831-7606

3UST-29

OYCT

3/95R

V. CLOSURE NOTIFICATION INFORMATION:

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

Tank #	Remove Tank	Remove Piping	In-place Closure* Tank	In-place Closure* Piping	Replace Tank	Replace Piping	Upgrade** Tank	Upgrade** Piping
82	X	X						
83	X	X						
84	X	X						
85	X	X						
86	X	X						
Work Date	15 APR	15 APR						

* In-place closure requires Fire Safety Officer approval. See Section V.B. (below).

** Upgrade is the addition of such compliance items as cathodic protection, spill/overfill protection, tank lining, monitoring systems, etc., without removing tanks or piping.

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

Name: _____ Signature: _____

Jurisdiction: _____ Date: _____

Comment: _____

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

Why? Contract has been awarded & contractor is ready to mobilize.

D. Comments: Pipeline from Pumphouse to Bulk Fuel Farm will be pigged, emptied, & grouted to Pumphouse #5, which is still in use.

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

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

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

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

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

Name (Print): MR. JOHN H. SPEARS Title: Chief, Environmental Branch

Organization Name: 3rd Infantry Div (Mech) Telephone: (912) 767-1071/2010

Signature: John H. Spears Date: 3/23/98

For USTM Program Use Only FAC. ID: _____ Date into DB _____ Initials _____

Action	Comments
☐ No Action	

~~Waiver - Yes~~ Work may begin upon receipt
3/31/98 - Felicia Jones

Georgia Department of Natural Resources

Environmental Protection Division
Underground Storage Tank Management Program
4244 International Parkway, Suite 104, Atlanta, Georgia 3035
Lonice C. Barrett, Commissioner
Harold F. Reheis, Director
(404)362-268

Received
Data Manager: ZJ

NOTICE DATE: _____

File _____

Route To _____

GEORGIA UNDERGROUND STORAGE TANK (GUST) CLOSURE ACTIVITY FORM

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

I. FACILITY INFORMATION:

Facility Name: HUNTER ARMY AIRFIELD (PUMPHOUSE #6)

Contact Person: MR. JOHN SPEARS Telephone: (912) 767-1071/2010

Address (location; P.O. Box not acceptable): STRACHAN EXTENSION (BLDG 8070)

City: SAVANNAH County: CHATHAM Zip Code: 31402-5026

Facility ID (if known): 9-025090 Date Tanks Last Used: JAN 71

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

Tank ID: 87 Tank Size (gal): 50,000 Contents: JP-4

Tank ID: 88 Tank Size (gal): 50,000 Contents: JP-4

Tank ID: 89 Tank Size (gal): 50,000 Contents: JP-4

Tank ID: 90 Tank Size (gal): 50,000 Contents: JP-4

Tank ID: 91 Tank Size (gal): 50,000 Contents: JP-4

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

UST Owner Name: 3rd Infantry Division (MECH) / Environmental Branch

Contact Person: MR. JOHN SPEARS Telephone: (912) 767-1071/2010

Mailing Address: 1557 FRANK COCHRAN DRIVE

City: FORT STEWART State: GA Zip Code: 31314-4928

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

Company or Organization Name: LOCKHEAD MARTIN

Contractor Representative Name: MR. JAMES BOWMAN Telephone: (423) 241-9492

Address: P.O. BOX 2003

City: OAK RIDGE State: TN Zip Code: 37831-7606

V. CLOSURE NOTIFICATION INFORMATION:

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

Tank #	Remove Tank	Remove Piping	In-place Closure* Tank	In-place Closure* Piping	Replace Tank	Replace Piping	Upgrade** Tank	Upgrade** Piping
87	X	X						
88	X	X						
89	X	X						
90	X	X						
91	X	X						
Work Date	15 APR	15 APR						

* In-place closure requires Fire Safety Officer approval. See Section V.B. (below).

** Upgrade is the addition of such compliance items as cathodic protection, spill/overfill protection, tank lining, monitoring systems, etc., without removing tanks or piping.

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

Name: _____ Signature: _____

Jurisdiction: _____ Date: _____

Comment: _____

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

Why? Contract has been awarded & contractor is ready to mobilize.

D. Comments: Pipeline from PH#6 to PH#5 will be closed in-place.

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

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

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

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

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

Name (Print): MR. JOHN H. SPEARS Title: Chief, Environmental Branch

Organization Name: 3rd ID (Mech) FSGA Telephone: (912) 767-1071/2010

Signature: John H. Spears Date: 3/23/98

For USTM Program Use Only FAC. ID: _____ Date into DB _____ Initials _____

Action	Comments
☐ No Action	
☒ Waiver - Yes	Work may begin upon receipt
☐ Waiver - No	

3/31/98 Felicia Jones

Georgia Department of Natural Resource:

Environmental Protection Divisio
Underground Storage Tank Management Progra:
4244 International Parkway, Suite 104, Atlanta, Georgia 303:
Lonice C. Barrett, Commission
Harold F. Reheis, Direct
(404)362-2(

Data Mar

Route To _____ File _____

NOTICE DATE: _____

GEORGIA UNDERGROUND STORAGE TANK (GUST) CLOSURE ACTIVITY FORM

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

I. FACILITY INFORMATION:

Facility Name: Hunter Army Airfield (Pumphouse #6)

Contact Person: Mr. John H. Spears Telephone: (912)767-1071/2010

Address (location; P.O. Box not acceptable): Strachan Extension (Bldg 8070)

City: Savannah County: Chatham Zip Code: 31402-5026

Facility ID (if known): 9-025090 Date Tanks Last Used: Jan 71

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

Tank ID: 92 Tank Size (gal): 50,000 Contents: JP-4 Defuel UST

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

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

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

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

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

UST Owner Name: 3d Infantry Division (Mech)/Environmental Branch

Contact Person: Mr. John Spears Telephone: (912) 767-1071/2010

Mailing Address: 1557 Frank Cochran Drive

City: Fort Stewart State: GA Zip Code: 31314-4928

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

Company or Organization Name: Lockhead Martin

Contractor Representative Name: James Bauman Telephone: (423) 241-9492

Address: P.O. Box 2003

City: ~~Oak Ridge~~ State: ~~TN~~ Zip Code: ~~37831-7606~~

V. CLOSURE NOTIFICATION INFORMATION:

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

Tank #	Remove Tank	Remove Piping	In-place Closure* Tank	In-place Closure* Piping	Replace Tank	Replace Piping	Upgrade** Tank	Upgrade** Piping
92			X	X				
Work Date			15 APR	15 APR				

* In-place closure requires Fire Safety Officer approval. See Section V.B. (below).

** Upgrade is the addition of such compliance items as cathodic protection, spill/overfill protection, tank lining, monitoring systems, etc., without removing tanks or piping.

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

Name: HARRY E Shuman JR Signature: Harry E. Shuman

Jurisdiction: Hunter AAF Hunter AAF Date: 3-12-98

Comment: To be in Site closure operation

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

Why? Contract has been awarded + contractor is ready to mobilize.

D. Comments:

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

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

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

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

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

Name (Print): JOHN H. SPEARS Title: Chief, Environmental Branch

Organization Name: 3rd ID (Mech) Telephone: (912) 767-1071/2010

Signature: John H. Spears Date: 3/23/98

For USTM Program Use Only FAC. ID: _____ Date into DB _____ Initials _____

Action	Comments
☐ No Action	
☒ Waiver - Yes	Work may begin upon receipt
☐ Waiver - No	

Date: 3/31/98 Name: Johnson Jones

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part I: Facility Data

state use only

FACILITY ID NUMBER: 9-025090

INITIAL DATE RECEIVED: 05-06-1986

DATE AMENDED LAST: 03-27-1996

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

OWNERSHIP OF TANK(S):

OWNER'S ID: 197 Number of Active Tanks: 1

Company Name: U.S. ARMY/ FORT STEWART
Contact Person's Name: THOMAS FRY, Environmental Branch Chief
Mailing Address: HQS 3D IN DIV (MECH) AND FORT STEWART ~~1557 FRANK COCHRAN DRIVE~~
City: FT STEWART 1557 FRANK COCHRAN DRIVE Zip Code: 31314-4928
Phone: (912) 767-2010 FORT STEWART GEORGIA 31314-4928

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

OPERATOR OF TANK(S):

Company Name: U. S. ARMY / HUNTER ARMY AIRFIELD
Contact Person's Name: DOUG SWANSON, Environmental Engineer
Street Address: 98 SOUTH MIDDLEGROUND ROAD
City: HUNTR ARMY AIRF HUNTER ARMY AIRFIELD, GA 31409 Zip Code: 31402
Phone: (912) 352-5535

LOCATION OF TANK(S):

Company Name: HUNTER AAF/FAC ? 8070
Contact Person's Name: US ARMY/FT STEWART, Thomas Fry
Street Address: FAC X 8070, PUMP STATION #6
City: SAVANNAH State: GA Zip Code: 31402-5026
County: CHATHAM Latitude: : : Longitude: : :
Phone: (912) 767-2010

FACILITY TYPE(S):

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

Deferred from Subparts B, C, D, E, & G of 40 CFR Part 280

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part I: Facility Data

ANCIAL RESPONSIBILITY: FACILITY ID NUMBER: 9-025090

[X] I meet the financial responsibility requirements of §12-13-9 Official Code of Georgia Annotated by providing or participating in one of the following financial assurance mechanisms.

Primary Financial Responsibility Mechanism: (check one):

[ ] GUST Trust Fund
[ ] Surety Bond
[ ] Letter of Credit
[ ] Risk Retention Group
[ ] Self-Insured
[ ] Insurance
[ ] Guarantee
[ ] Trust Fund (other than GUST)
[X] Other Method FEDERAL FUNDING
[ ] None

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

Financial Responsibility Provider (Primary):

Name: US ARMY 3RD INFANTRY DIV
Address: 1587 FRANK COCHRAN DR, SUITE 101
FT STEWART, GA

Mechanism Id Number:

Mechanism Anniversary Date:

uctible Financial Responsibility, if any: (check one)

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

[ ] Surety Bond
[ ] Letter of Credit
[ ] Risk Retention Group
[ ] Self-Insured
[ ] Insurance
[ ] Guarantee
[ ] Trust Fund (other than GUST)
[ ] Other Method

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

Financial Responsibility Provider (Deductible):

Name:
Address:

Mechanism Id Number:

Mechanism Anniversary Date:

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-025090	9-025090	9-025090	9-025090	9-025090
TANK ID	082	083	084	085	086
Status of Tank					
Currently In Use					
Temp. Out of Use					
Perm. Out of Use	X	X	X	X	X
Date of Installation	02-06-1945	02-06-1945	02-06-1945	02-06-1945	02-06-1945
Age	53	53	53	53	53
Est. Total Capacity	50,000	50,000	50,000	50,000	50,000
Material of Construction					
Asphalt or Bare Steel					
Cath. Protected Steel	X	X	X	X	X
Date Impress Current					
Date Galvanic System					
Epoxy Coated Steel					
Composite					
Fiberglass Reinf. Plas.					
Date Lined Interior					
Double Walled					
Poly. Tank Jacket					
Concrete					
Excavation Liner					
Unknown					
Other, explanation					
Piping Material					
Bare Steel					
Galvanized Steel	X	X	X	X	X
Fiberglass					
Copper					
Cathodically Protected	X	X	X	X	X
Double Walled					
Secondary Containment					
Unknown					
Other, explanation					
Date Piping Installed					
Piping Type					
Suction: No Valve					
Suction: Valve					
Pressure					
Gravity Fed					
Date Piping Repaired					
Substance Stored in Tank					
Gasoline					
Diesel					
Gasohol					
Kerosene					
Heating Oil					
Used Oil					
Propane					
Empty					
Other, explanation	JP-4	JP-4	JP-4	JP-4	JP-4

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-025090		9-025090		9-025090		9-025090		9-025090	
TANK ID	082		083		084		085		086	
Substance Stored in Tank										
Hazardous Substance										
CERCLA Name										
CAS Number										
Mixture										
Mixture, Specification										
Tanks Out of Use/Chg. Ser.	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Est. Date Last Used	4-70	4-70	04-70	4-70	04-70	4-70	04-70	4-70	04-70	4-70
Est. Date Closed	4-29-98	6-11-98	4-29-98	6-11-98	5-6-98	6-11-98	4-30-98	6-11-98	5-6-98	6-11-98
Removed from Ground	X	X	X	X	X	X	X	X	X	X
Closed in Ground		X		X		X		X		X
Filled with Inert Mat.		X		X		X		X		X
Change in Service										
Site Assessment Compl.		NOTE Piping was removed from tank to main fuel line, main distribution								
Leak Detected	X			fuel line was capped and grouted in place.						
Installation										
Certified by Mfg										
Certified by Imple Agn.										
Inspected by Engineer										
Checklists Completed										
Another Allowed Method										
Method Description										
Release Detection	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Tank Tightness Testing										
Inventory Controls										
SIR										
Automatic Tank Gauging										
Inter. Mon./Double Wall										
Groundwater Monitoring										
Manual Tank Gauging										
Vapor Monitoring										
Inter. Mon./Sec. Cont.										
Auto. Line Leak Detect.										
Line Tightness Testing										
Other Method										
Other Description										
Spill and Overfill										
Date Overfill Device										
Date Spill Device										
Installer Certification										
Name										
Position										
Company										
Date										

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-025090	9-025090	9-025090	9-025090	9-025090
TANK ID	087	088	089	090	091
Status of Tank					
Currently In Use					
Temp. Out of Use					
Perm. Out of Use	X	X	X	X	X
Date of Installation	02-06-1945	02-06-1945	02-06-1945	02-06-1945	02-06-1945
Age	53	53	53	53	53
Est. Total Capacity	50,000	50,000	50,000	50,000	50,000
Material of Construction					
Asphalt or Bare Steel					
Cath. Protected Steel	X	X	X	X	X
Date Impress Current					
Date Galvanic System					
Epoxy Coated Steel					
Composite					
Fiberglass Reinf. Plas.					
Date Lined Interior					
Double Walled					
Poly. Tank Jacket					
Concrete					
Excavation Liner					
Unknown					
Other, explanation					
Piping Material					
Bare Steel					
Galvanized Steel	X	X	X	X	X
Fiberglass					
Copper					
Cathodically Protected	X	X	X	X	X
Double Walled					
Secondary Containment					
Unknown					
Other, explanation					
Date Piping Installed					
Piping Type					
Suction: No Valve					
Suction: Valve					
Pressure					
Gravity Fed					
Date Piping Repaired					
Substance Stored in Tank					
Gasoline					
Diesel					
Gasohol					
Kerosene					
Heating Oil					
Used Oil					
Propane					
Empty					
Other, explanation	JP-4	JP-4	JP-4	JP-4	JP-4

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-025090		9-025090		9-025090		9-025090		9-025090	
TANK ID	087		088		089		090		091	
Substance Stored in Tank										
Hazardous Substance										
CERCLA Name										
CAS Number										
Mixture										
Mixture, Specification										
Tanks Out of Use/Chg. Ser.	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Est. Date Last Used	04-70	4-70	04-70	4-70	04-70	4-70	04-70	4-70	04-70	4-70
Est. Date Closed	5-4-98	6-11-98	5-5-98	6-11-98	5-1-98	6-11-98	5-5-98	6-11-98	5-1-98	6-11-98
Removed from Ground	X	X	X	X	X	X	X	X	X	X
Closed in Ground		X		X		X		X		X
Filled with Inert Mat.		X		X		X		X		X
Change in Service										Distri
Site Assessment Compl.	NOTE Piping was removed from Tank to main Fuel line. Main Fuel line									
Leak Detected	was capped and grouted in place									
Installation										
Certified by Mfg										
Certified by Imple Agn.										
Inspected by Engineer										
Checklists Completed										
Another Allowed Method										
Method Description										
Release Detection	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Tank Tightness Testing										
Inventory Controls										
SIR										
Automatic Tank Gauging										
Inter. Mon./Double Wall										
Groundwater Monitoring										
Manual Tank Gauging										
Vapor Monitoring										
Inter. Mon./Sec. Cont.										
Auto. Line Leak Detect.										
Line Tightness Testing										
Other Method										
Other Description										
Spill and Overfill										
Date Overfill Device										
Date Spill Device										
Installer Certification										
Name										
Position										
Company										
Date										

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-025090				
TANK ID	092				
Status of Tank					
Currently In Use					
Temp. Out of Use					
Perm. Out of Use	X				
Date of Installation	02-06-1945				
Age	53				
Est. Total Capacity	50,000				
Material of Construction					
Asphalt or Bare Steel					
Cath. Protected Steel	X				
Date Impress Current					
Date Galvanic System					
Epoxy Coated Steel					
Composite					
Fiberglass Reinf. Plas.					
Date Lined Interior					
Double Walled					
Poly. Tank Jacket					
Concrete					
Excavation Liner					
Unknown					
Other, explanation					
Piping Material					
Bare Steel					
Galvanized Steel	X				
Fiberglass					
Copper					
Cathodically Protected	X				
Double Walled					
Secondary Containment					
Unknown					
Other, explanation					
Date Piping Installed					
Piping Type					
Suction: No Valve					
Suction: Valve					
Pressure					
Gravity Fed					
Date Piping Repaired					
Substance Stored in Tank					
Gasoline					
Diesel					
Gasohol					
Kerosene					
Heating Oil					
Used Oil					
Propane					
Empty					
Other, explanation	Defuel Tank ~~JP-4~~				

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-025090					
TANK ID	092					
Substance Stored in Tank						
Hazardous Substance						
CERCLA Name						
CAS Number						
Mixture						
Mixture, Specification						
Tanks Out of Use/Chg. Ser.	**Tank**	**Piping**				
Est. Date Last Used	6-8-98 ~~04-70~~	6-8-98				
Est. Date Closed	6-10-98	6-11-98				
Removed from Ground						
Closed in Ground	X	X				
Filled with Inert Mat.	X	X				
Change in Service						
Site Assessment Compl.						
Leak Detected						
Installation						
Certified by Mfg						
Certified by Imple Agn.						
Inspected by Engineer						
Checklists Completed						
Another Allowed Method						
Method Description						
Release Detection	**Tank**	**Piping**				
Tank Tightness Testing						
Inventory Controls						
SIR						
Automatic Tank Gauging						
Inter. Mon./Double Wall						
Groundwater Monitoring						
Manual Tank Gauging						
Vapor Monitoring						
Inter. Mon./Sec. Cont.						
Auto. Line Leak Detect.						
Line Tightness Testing						
Other Method						
Other Description						
Spill and Overfill						
Date Overfill Device						
Date Spill Device						
Installer Certification						
Name						
Position						
Company						
Date						

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part III: Certifications

DATH OF INSTALLATION: I certify the information concerning installation of the UST system, release detection, and spill/overfill 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:

Thomas C. Fry	Environmental Branch Chief
Owner Name	Title
Thomas C. Fry	08/25/98
Owner's Signature	Date

Tab 7
Laboratory Data

LABORATORY ANALYTICAL RESULTS

Analytical results for Tanks #82, #83, #84, #85, #86, #87, #88, #89, #90, #91, and #92 with the corresponding Chain of Custody forms are provided. The results are for groundwater samples collected during UST removal activities and were collected in accordance with GUST-9. All contaminants detected above their respective detection limits have been highlighted. The site map in Tab 5 indicates the sampling locations. Table 7-1 summarizes the analytical results for the groundwater samples and compares the data to the Safe Drinking Water Act maximum contaminant levels (MCLs). Only those compounds which were detected in the groundwater or which have MCLs are presented in Table 7-1.

Table 7-1
Comparison of Analytical Data for Groundwater Sample to SDWA MCLs
Facility ID #9-025090
Tanks #82, #83, #84, #85, #86, #87, #88, #89, #90, #91, and #92

Compound	Georgia SDWA[a] Criteria µg/L	HAA-PH6-GW-DF-1R Results	Qualifiers	HAA-PH6-GW-DF-2R Results	Qualifiers	HAA-PH6-GW-DF-3R Results	Qualifiers	HAA-PH6-TK10-W Results	Qualifiers	HAA-PH6-TK2 Results	Qualifiers
VOCs – SW846-8260A (µg/L)											
BENZENE	5	4	J	1	J	5	U	**5**		5	U
ETHYLBENZENE	700	6		5	U	2	J	110		64	
M,P-XYLENE	10000[b]	4	JD	14		35		490	D	92	
O-XYLENE	10000[b]	5	U	5	U	5	U	130		2	J
TOLUENE	1000	5	U	5	U	5	U	170		2	J
SVOCs – SW846-8270B (µg/L)											
BENZO(A)PYRENE	0.2	20	U	10	U	10	U				
NAPHTHALENE		190		59		53					
PAHs – SW846-8310 (µg/L)											
ACENAPHTHENE								450	U	2300	U
ACENAPHTHYLENE								575	U	2930	U
ANTHRACENE								5.1	J	23.2	J
BENZO(A)ANTHRACENE								13.8		32	
BENZO(A)PYRENE	0.2							**4.8**	**J**	**13**	**J**
BENZO(B)FLUORANTHENE								11.9		32.6	
BENZO(G,H,I)PERYLENE								11.9	PJ	40.8	PJ
BENZO(K)FLUORANTHENE								4.39		12.6	J
CHRYSENE								14	PJ	24	J
DIBENZ(A,H)ANTHRACENE								7.5	U	23.4	J
FLUORANTHENE								46.2	J	142	PJ
FLUORENE								52.5	U	268	U
INDENO(1,2,3-CD)PYRENE								3.76	J	9.02	J
NAPHTHALENE								450	U	2300	U
PHENANTHRENE								23.1	J	108	J
PYRENE								42.5	J	105	J

Bolded text represents analytes detected above their respective detection limits.
[a] Georgia Department of Natural Resources, Environmental Protection Division, Chapter 391-3-5.18, "Primary Maximum Contaminant Levels for Drinking Water. Amended."
[b] Criteria is for total Xylenes
NA = No criteria is given in SDWA
SVOCs = semivolatile organic compounds
VOCs = volatile organic compounds
µg/L = microgram per liter

Organic Qualifier Flags:
U = not detected
J = estimated value
B = analyte found in sample and associate blank
P = greater than 25% difference detected concentration between the two GC columns. The lower of the two values is reported.

Table 7-1 (continued)
Comparison of Analytical Data for Groundwater Sample to SDWA MCLs
Facility ID #9-025090
Tanks #82, #83, #84, #85, #86, #87, #88, #89, #90, #91, and #92

Compound	Georgia SDWA[a] Criteria µg/L	HAA-PH6-TK3-W Results	Qualifiers	HAA-PH6-TK4-W Results	Qualifiers	HAA-PH6-TK5-W Results	Qualifiers	HAA-PH6-TK6-W Results	Qualifiers	HAA-PH6-TK6-WD Results	Qualifiers
VOCs – SW846-8260A (µg/L)											
BENZENE	5	5	U	5	U	5	U	**5**		**5**	J
ETHYLBENZENE	700	17		18		120		100		89	
M,P-XYLENE	10000[b]	40		58		120	D	400	D	300	D
O-XYLENE	10000[b]	2	J	8		18		110		91	
TOLUENE	1000	5	U	5	U	4	J	160		130	
PAHs – SW846-8310 (µg/L)											
ACENAPHTHENE		2250	U	4500	U	2250	U	450	U	450	U
ACENAPHTHYLENE		2880	U	5750	U	2880	U	575	U	575	U
ANTHRACENE		50	U	119		57.5		6.37	J	6.87	J
BENZO(A)ANTHRACENE		59.7		285		108		12.8		17.1	
BENZO(A)PYRENE	0.2	**20.2**	J	**119**		**46.6**		**5.62**	J	**7.05**	
BENZO(B)FLUORANTHENE		49.7		235		93.1		12.1		15.2	
BENZO(G,H,I)PERYLENE		95	U	259	P	95	U	12.2	JP	14.2	JP
BENZO(K)FLUORANTHENE		20.2	PJ	88		35.4		4.48		5.64	
CHRYSENE		85.2	PJ	239	J	96.1	J	8.95	J	12.1	J
DIBENZ(A,H)ANTHRACENE		37.5	U	75	U	37.5	U	7.5	U	7.5	U
FLUORANTHENE		266		1000		398		50.8	J	59.6	
FLUORENE		262	U	525	U	262	U	52.5	U	52.5	U
INDENO(1,2,3-CD)PYRENE		16.2	J	75.7	J	34.6	J	3.91	J	4.82	J
NAPHTHALENE		2250	U	4500	U	2250	U	450	U	450	U
PHENANTHRENE		195	J	877	J	356	J	26.9	J	31	J
PYRENE		210	J	909		350		47.9	J	67.5	U

Bolded text represents analytes detected above their respective detection limits.
[a] Georgia Department of Natural Resources, Environmental Protection Division, Chapter 391-3-5.18, "Primary Maximum Contaminant Levels for Drinking Water. Amended."
[b] Criteria is for total Xylenes
NA = No criteria is given in SDWA
SVOCs = semivolatile organic compounds
VOCs = volatile organic compounds
µg/L = microgram per liter

Organic Qualifier Flags:
U = not detected
J = estimated value
B = analyte found in sample and associate blank
P = greater than 25% difference detected concentration between the two GC columns. The lower of the two values is reported.

Table 7-1 (continued)
Comparison of Analytical Data for Groundwater Sample to SDWA MCLs
Facility ID #9-025090
Tanks #82, #83, #84, #85, #86, #87, #88, #89, #90, #91, and #92

Compound	Georgia SDWA[a] Criteria µg/L	HAA-PH6-TK7-W Results	Qualifiers	HAA-PH6-TK8-W Results	Qualifiers	HAA-PH6-TK9-W Results	Qualifiers	HAA-PH6-TKI-W Results	Qualifiers
VOCs – SW846-8260A (µg/L)									
BENZENE	5	**5**		**5**		**5**		5	U
ETHYLBENZENE	700	94		110		100		18	
M,P-XYLENE	10000[b]	420	D	440	D	470	D	25	
O-XYLENE	10000[b]	100		130		120		5	U
TOLUENE	1000	120	D	170		170		5	U
PAHs – SW846-8310 (µg/L)									
ACENAPHTHENE		450	J	450	U	450	U	968	U
ACENAPHTHYLENE		575	J	575	U	575	U	1240	U
ANTHRACENE		5.68	J	6.06	J	6.72	J	16.9	J
BENZO(A)ANTHRACENE		12.7		16.1		17.7		30.5	
BENZO(A)PYRENE	0.2	**5.75**		**5.77**		**6.92**		**12.7**	
BENZO(B)FLUORANTHENE		11.2		13.1		14.3		29.5	
BENZO(G,H,I)PERYLENE		11		13.6	PJ	16.4	PJ	34.3	PJ
BENZO(K)FLUORANTHENE		4.3		4.84		5.25		11.2	
CHRYSENE		9.27	J	11.4	J	12.7	J	24.9	J
DIBENZ(A,H)ANTHRACENE		7.5		7.5	U	19.7	P	20.4	P
FLUORANTHENE		46.4		48.8	J	52.6		117	
FLUORENE		52.5	J	52.5	U	52.5	U	113	U
INDENO(1,2,3-CD)PYRENE		3.53	J	4.17	J	4.99	J	8.89	J
NAPHTHALENE		450	J	450	U	450	U	968	U
PHENANTHRENE		23.8	J	28.7	J	32	J	90.9	J
PYRENE		39.7	J	43.4	J	49.5	J	94.6	J

Bolded text represents analytes detected above their respective detection limits.
[a] Georgia Department of Natural Resources, Environmental Protection Division, Chapter 391-3-5.18, "Primary Maximum Contaminant Levels for Drinking Water. Amended."
[b] Criteria is for total Xylenes
NA = No criteria is given in SDWA
SVOCs = semivolatile organic compounds
VOCs = volatile organic compounds
µg/L = microgram per liter

Organic Qualifier Flags:
U = not detected
J = estimated value
B = analyte found in sample and associate blank
P = greater than 25% difference detected concentration between the two GC columns. The lower of the two values is reported.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HAAPH6-TKI-W

Lab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33816.01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4885.D

Level: (low/med) LOW Date Received: 05/01/98

% Moisture: not dec. _____ Date Analyzed: 05/07/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	5	U
108-88-3	TOLUENE	5	U
100-41-4	ETHYL BENZENE	18	
13-302-07	m,p-XYLENES	25	
95-47-6	o-XYLENE	5	U

1D
PAH ANALYSIS DATA SHEET

EPA SAMPLE NO:

HAA-PH6-TKI-W 1
~~00X~~ 100X
HAA-PH6-

06/02/98

Lab Name: SWL-TULSA Contract:

Lab Code: SWOK Case No:EARTH-VA SDG No: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33816.01

Sample wt/vol: 930ml Lab File ID: 2AH0509A

Level:(low/med) LOW Date Received: 05/01/98

% Moisture: N/A pH: 0.00 Date Extracted: 05/02/98

Extraction Method: SEPF/S Date Analyzed: 05/10/98

GPC Cleanup: (Y/N) N Dilution Factor: 100.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	NAPHTHALENE	968	U
208-96-8	ACENAPHTHYLENE	1240	U
83-32-9	ACENAPHTHENE	968	U
86-73-7	FLUORENE	113	U
85-01-8	PHENANTHRENE	90.9	J
120-12-7	ANTHRACENE	16.9	J
206-44-0	FLUORANTHENE	117	
129-00-0	PYRENE	94.6	J
56-55-3	BENZO(a)ANTHRACENE	30.5	
218-01-9	CHRYSENE	24.9	J
205-99-2	BENZO(b)FLUORANTHENE	29.5	
207-08-9	BENZO(k)FLUORANTHENE	11.2	
50-32-8	BENZO(a)PYRENE	12.7	
53-70-3	DIBENZO(a,h)ANTHRACENE	20.4	P
191-24-2	BENZO(g,h,i)PERYLENE	34.3	PJ
193-39-5	INDENO(1,2,3-cd)PYRENE	8.89	J

SURROGATE AMOUNT SPIKED (ug/L) 15.0
2-F BIPHENYL & TERPHENYL

FORM I

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HAA-PH6-TK2

Lab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33816.03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4909.D

Level: (low/med) LOW Date Received: 05/01/98

% Moisture: not dec. _____ Date Analyzed: 05/08/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	5	U
108-88-3	TOLUENE	2	J
100-41-4	ETHYL BENZENE	64	
13-302-07	m,p-XYLENES	92	
95-47-6	o-XYLENE	2	J

1D
PAH ANALYSIS DATA SHEET

EPA SAMPLE NO:

HAA-PH6-TK2 ~~250~~ ~~X~~ 250X

06/02/98

Lab Name: SWL-TULSA Contract:

Lab Code: SWOK Case No: EARTH-VA SDG No: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33816.03

Sample wt/vol: 980ml Lab File ID: 2AH0509A

Level: (low/med) LOW Date Received: 05/01/98

% Moisture: N/A pH: 0.00 Date Extracted: 05/02/98

Extraction Method: SEPF/S Date Analyzed: 05/10/98

GPC Cleanup: (Y/N) N Dilution Factor: 250.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	NAPHTHALENE	2300	U
208-96-8	ACENAPHTHYLENE	2930	U
83-32-9	ACENAPHTHENE	2300	U
86-73-7	FLUORENE	268	U
85-01-8	PHENANTHRENE	108	J
120-12-7	ANTHRACENE	23.2	J
206-44-0	FLUORANTHENE	142	PJ
129-00-0	PYRENE	105	J
56-55-3	BENZO(a)ANTHRACENE	32.0	
218-01-9	CHRYSENE	24.0	J
205-99-2	BENZO(b)FLUORANTHENE	32.6	
207-08-9	BENZO(k)FLUORANTHENE	12.6	J
50-32-8	BENZO(a)PYRENE	13.0	J
53-70-3	DIBENZO(a,h)ANTHRACENE	23.4	J
191-24-2	BENZO(g,h,i)PERYLENE	40.8	PJ
193-39-5	INDENO(1,2,3-cd)PYRENE	9.02	J

SURROGATE AMOUNT SPIKED (ug/L) 15.0
2-F BIPHENYL & TERPHENYL

FORM I

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HAAPH6-TK3-W

Lab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33832.01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4881.D

Level: (low/med) LOW Date Received: 05/02/98

% Moisture: not dec. _____ Date Analyzed: 05/07/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	5	U
108-88-3	TOLUENE	5	U
100-41-4	ETHYL BENZENE	17	
13-302-07	m,p-XYLENES	40	
95-47-6	o-XYLENE	2	J

1D
PAH ANALYSIS DATA SHEET

EPA SAMPLE NO:

HAA-PH6-TK3-W ~~2~~
~~50X~~ 250x
HAA-PH6-TK3-W SMG 06/02/98

Lab Name: SWL-TULSA Contract:

Lab Code: SWOK Case No:EARTH-TEC SDG No: 33832

Matrix: (soil/water) WATER Lab Sample ID: 33832.01

Sample wt/vol: 1000m Lab File ID: 2AH0526A

Level:(low/med) LOW Date Received: 05/02/98

% Moisture: N/A pH: 0.00 Date Extracted: 05/02/98

Extraction Method: SEPF/S Date Analyzed: 05/27/98

GPC Cleanup: (Y/N) N Dilution Factor: 250.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	NAPHTHALENE	2250	U
208-96-8	ACENAPHTHYLENE	2880	U
83-32-9	ACENAPHTHENE	2250	U
86-73-7	FLUORENE	262	U
85-01-8	PHENANTHRENE	195	J
120-12-7	ANTHRACENE	50.0	U
206-44-0	FLUORANTHENE	266	
129-00-0	PYRENE	210	J
56-55-3	BENZO(a)ANTHRACENE	59.7	
218-01-9	CHRYSENE	85.2	PJ
205-99-2	BENZO(b)FLUORANTHENE	49.7	
207-08-9	BENZO(k)FLUORANTHENE	20.2	PJ
50-32-8	BENZO(a)PYRENE	20.2	J
53-70-3	DIBENZO(a,h)ANTHRACENE	37.5	U
191-24-2	BENZO(g,h,i)PERYLENE	95.0	U
193-39-5	INDENO(1,2,3-cd)PYRENE	16.2	J

SURROGATE AMOUNT SPIKED (ug/L) 15.0
2-F BIPHENYL & TERPHENYL

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HAAPH6-TK4-W
HAAP-AAH6-TK4-W

Lab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33832.02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4907.D

Level: (low/med) LOW Date Received: 05/02/98

% Moisture: not dec. _____ Date Analyzed: 05/08/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	5	U
108-88-3	TOLUENE	5	U
100-41-4	ETHYL BENZENE	18	
13-302-07	m,p-XYLENES	58	
95-47-6	o-XYLENE	8	

1D
PAH ANALYSIS DATA SHEET

EPA SAMPLE NO:

HAA-PH6-TK4-W ~~5~~
~~00X~~ 500X
HAA-PH6-TK4-W SDG 00/02/98

Lab Name: SWL-TULSA Contract:

Lab Code: SWOK Case No:EARTH-TEC SDG No: 33832

Matrix: (soil/water) WATER Lab Sample ID: 33832.02

Sample wt/vol: 1000m Lab File ID: 2AH0527A

Level:(low/med) LOW Date Received: 05/02/98

% Moisture: N/A pH: 0.00 Date Extracted: 05/02/98

Extraction Method: SEPF/S Date Analyzed: 05/27/98

GPC Cleanup: (Y/N) N Dilution Factor: 500.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	NAPHTHALENE----------	4500	U
208-96-8	ACENAPHTHYLENE----------	5750	U
83-32-9	ACENAPHTHENE----------	4500	U
86-73-7	FLUORENE----------	525	U
85-01-8	PHENANTHRENE----------	877	J
120-12-7	ANTHRACENE----------	119	
206-44-0	FLUORANTHENE----------	1000	
129-00-0	PYRENE----------	909	
56-55-3	BENZO(a)ANTHRACENE----------	285	
218-01-9	CHRYSENE----------	239	J
205-99-2	BENZO(b)FLUORANTHENE----------	235	
207-08-9	BENZO(k)FLUORANTHENE----------	88.0	
50-32-8	BENZO(a)PYRENE----------	119	
53-70-3	DIBENZO(a,h)ANTHRACENE----------	75.0	U
191-24-2	BENZO(g,h,i)PERYLENE----------	259	P
193-39-5	INDENO(1,2,3-cd)PYRENE----------	75.7	J

SURROGATE AMOUNT SPIKED (ug/L) 15.0
2-F BIPHENYL & TERPHENYL

FORM I

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HAAPH6TK5W
HAAP-06-TKS-10

Lab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33832.03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4883.D

Level: (low/med) LOW Date Received: 05/02/98

% Moisture: not dec. _____ Date Analyzed: 05/07/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	5	U
108-88-3	TOLUENE	4	J
100-41-4	ETHYL BENZENE	120	
13-302-07	m,p-XYLENES	210	E
95-47-6	o-XYLENE	18	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HAAPH6TK5WDL
HAA-1 [illegible]-TK5-W

Lab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33832.03DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4908.D

Level: (low/med) LOW Date Received: 05/02/98

% Moisture: not dec. _____ Date Analyzed: 05/08/98

Column: (pack/cap) CAP Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	10	U
108-88-3	TOLUENE	10	U
100-41-4	ETHYL BENZENE	68	D
13-302-07	m,p-XYLENES	120	D
95-47-6	o-XYLENE	11	D

1D
PAH ANALYSIS DATA SHEET

EPA SAMPLE NO:

HAA-PH6-TK5-W 21
~~50X~~ 250X
SAG 06/02/98

Lab Name: SWL-TULSA Contract:

Lab Code: SWOK Case No:EARTH-TEC SDG No: 33832

Matrix: (soil/water) WATER Lab Sample ID: 33832.03

Sample wt/vol: 1000m Lab File ID: 2AH0526A

Level:(low/med) LOW Date Received: 05/02/98

% Moisture: N/A pH: 0.00 Date Extracted: 05/02/98

Extraction Method: SEPF/S Date Analyzed: 05/27/98

GPC Cleanup: (Y/N) N Dilution Factor: 250.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	NAPHTHALENE	2250	U
208-96-8	ACENAPHTHYLENE	2880	U
83-32-9	ACENAPHTHENE	2250	U
86-73-7	FLUORENE	262	U
85-01-8	PHENANTHRENE	356	J
120-12-7	ANTHRACENE	57.5	
206-44-0	FLUORANTHENE	398	
129-00-0	PYRENE	350	J
56-55-3	BENZO(a)ANTHRACENE	108	
218-01-9	CHRYSENE	96.1	J
205-99-2	BENZO(b)FLUORANTHENE	93.1	
207-08-9	BENZO(k)FLUORANTHENE	35.4	
50-32-8	BENZO(a)PYRENE	46.6	
53-70-3	DIBENZO(a,h)ANTHRACENE	37.5	U
191-24-2	BENZO(g,h,i)PERYLENE	95.0	U
193-39-5	INDENO(1,2,3-cd)PYRENE	34.6	J

SURROGATE AMOUNT SPIKED (ug/L) 15.0
2-F BIPHENYL & TERPHENYL

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HAAPH6TK6W

Lab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33902.01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4927.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. _____ Date Analyzed: 05/11/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	5	
108-88-3	TOLUENE	160	
100-41-4	ETHYL BENZENE	100	
13-302-07	m,p-XYLENES	490	E
95-47-6	o-XYLENE	110	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HAAPH6TK6WDL

Lab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33902.01DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4936.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. _____ Date Analyzed: 05/11/98

Column: (pack/cap) CAP Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	20	U
108-88-3	TOLUENE	120	D
100-41-4	ETHYL BENZENE	77	D
13-302-07	m,p-XYLENES	400	D
95-47-6	o-XYLENE	86	D

1D
PAH ANALYSIS DATA SHEET

EPA SAMPLE NO:

HAA-PH6-TK6-W 5
OX
HAA-PH6-TK6-W

Lab Name: SWL-TULSA Contract:

Lab Code: SWOK Case No:EARTH-TEC SDG No: 33902

Matrix: (soil/water) WATER Lab Sample ID: 33902.01

Sample wt/vol: 1000m Lab File ID: 2AH0527A

Level:(low/med) LOW Date Received: 05/08/98

% Moisture: N/A pH: 0.00 Date Extracted: 05/11/98

Extraction Method: SEPF/S Date Analyzed: 05/27/98

GPC Cleanup: (Y/N) N Dilution Factor: 50.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	NAPHTHALENE	450	U
208-96-8	ACENAPHTHYLENE	575	U
83-32-9	ACENAPHTHENE	450	U
86-73-7	FLUORENE	52.5	U
85-01-8	PHENANTHRENE	26.9	J
120-12-7	ANTHRACENE	6.37	J
206-44-0	FLUORANTHENE	50.8	J
129-00-0	PYRENE	47.9	J
56-55-3	BENZO(a)ANTHRACENE	12.8	
218-01-9	CHRYSENE	8.95	J
205-99-2	BENZO(b)FLUORANTHENE	12.1	
207-08-9	BENZO(k)FLUORANTHENE	4.48	
50-32-8	BENZO(a)PYRENE	5.62	J
53-70-3	DIBENZO(a,h)ANTHRACENE	7.50	U
191-24-2	BENZO(g,h,i)PERYLENE	12.2	JP
193-39-5	INDENO(1,2,3-cd)PYRENE	3.91	J

SURROGATE AMOUNT SPIKED (ug/L) 15.0
2-F BIPHENYL & TERPHENYL

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AAPH6TK6WD

ab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33902.02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4928.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. _____ Date Analyzed: 05/11/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	5	J
108-88-3	TOLUENE	130	
100-41-4	ETHYL BENZENE	89	
13-302-07	m,p-XYLENES	490	E
95-47-6	o-XYLENE	91	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AAPH6TK6WDDL

ab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33902.02DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4950.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. _____ Date Analyzed: 05/12/98

Column: (pack/cap) CAP Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	20	U
108-88-3	TOLUENE	72	D
100-41-4	ETHYL BENZENE	50	D
13-302-07	m,p-XYLENES	300	D
95-47-6	o-XYLENE	57	D

1D
PAH ANALYSIS DATA SHEET

EPA SAMPLE NO:

HAA-PH6-TK6-WD
50X

Lab Name: SWL-TULSA Contract:

Lab Code: SWOK Case No:EARTH-TEC SDG No: 33902

Matrix: (soil/water) WATER Lab Sample ID: 33902.02

Sample wt/vol: 1000m Lab File ID: 2AH0527A

Level:(low/med) LOW Date Received: 05/08/98

% Moisture: N/A pH: 0.00 Date Extracted: 05/11/98

Extraction Method: SEPF/S Date Analyzed: 05/28/98

GPC Cleanup: (Y/N) N Dilution Factor: 50.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	NAPHTHALENE----------	450	U
208-96-8	ACENAPHTHYLENE----------	575	U
83-32-9	ACENAPHTHENE----------	450	U
86-73-7	FLUORENE----------	52.5	U
85-01-8	PHENANTHRENE----------	31.0	J
120-12-7	ANTHRACENE----------	6.87	J
206-44-0	FLUORANTHENE----------	59.6	
129-00-0	PYRENE----------	67.5	U
56-55-3	BENZO(a)ANTHRACENE----------	17.1	
218-01-9	CHRYSENE----------	12.1	J
205-99-2	BENZO(b)FLUORANTHENE----------	15.2	
207-08-9	BENZO(k)FLUORANTHENE----------	5.64	
50-32-8	BENZO(a)PYRENE----------	7.05	
53-70-3	DIBENZO(a,h)ANTHRACENE----------	7.50	U
191-24-2	BENZO(g,h,i)PERYLENE----------	14.2	JP
193-39-5	INDENO(1,2,3-cd)PYRENE----------	4.82	J

SURROGATE AMOUNT SPIKED (ug/L) 15.0
2-F BIPHENYL & TERPHENYL

FORM I

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AAPH6TK7W

Lab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33902.03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4926.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. _____ Date Analyzed: 05/11/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	5	J
108-88-3	TOLUENE	150	
100-41-4	ETHYL BENZENE	94	
13-302-07	m,p-XYLENES	510	E
95-47-6	o-XYLENE	100	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AAPH6TK7WDL

Lab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33902.03DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4935.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. _____ Date Analyzed: 05/11/98

Column: (pack/cap) CAP Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	5	JD
108-88-3	TOLUENE	120	D
100-41-4	ETHYL BENZENE	73	D
13-302-07	m,p-XYLENES	420	D
95-47-6	o-XYLENE	87	D

1D

PAH ANALYSIS DATA SHEET

EPA SAMPLE NO:

HAA-PH6-TK7-W 5
0X

Lab Name: SWL-TULSA Contract:

Lab Code: SWOK Case No:EARTH-TEC SDG No: 33902

Matrix: (soil/water) WATER Lab Sample ID: 33902.03

Sample wt/vol: 1000m Lab File ID: 2AH0527A

Level:(low/med) LOW Date Received: 05/08/98

% Moisture: N/A pH: 0.00 Date Extracted: 05/11/98

Extraction Method: SEPF/S Date Analyzed: 05/28/98

GPC Cleanup: (Y/N) N Dilution Factor: 50.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	NAPHTHALENE	450	U
208-96-8	ACENAPHTHYLENE	575	U
83-32-9	ACENAPHTHENE	450	U
86-73-7	FLUORENE	52.5	U
85-01-8	PHENANTHRENE	23.8	J
120-12-7	ANTHRACENE	5.68	J
206-44-0	FLUORANTHENE	46.4	J
129-00-0	PYRENE	39.7	J
56-55-3	BENZO(a)ANTHRACENE	12.7	
218-01-9	CHRYSENE	9.27	J
205-99-2	BENZO(b)FLUORANTHENE	11.2	
207-08-9	BENZO(k)FLUORANTHENE	4.30	
50-32-8	BENZO(a)PYRENE	5.75	U
53-70-3	DIBENZO(a,h)ANTHRACENE	7.50	U
191-24-2	BENZO(g,h,i)PERYLENE	11.0	JP
193-39-5	INDENO(1,2,3-cd)PYRENE	3.53	J

SURROGATE AMOUNT SPIKED (ug/L) 15.0
2-F BIPHENYL & TERPHENYL

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HAAPH6TK8W

Lab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33902.06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4929.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. _____ Date Analyzed: 05/11/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	5	
108-88-3	TOLUENE	170	
100-41-4	ETHYL BENZENE	110	
13-302-07	m,p-XYLENES	590	E
95-47-6	o-XYLENE	130	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HAAPH6TK8WDL

Lab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33902.06DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4972.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. _____ Date Analyzed: 05/12/98

Column: (pack/cap) CAP Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	20	U
108-88-3	TOLUENE	120	D
100-41-4	ETHYL BENZENE	74	D
13-302-07	m,p-XYLENES	440	D
95-47-6	o-XYLENE	92	D

1D
PAH ANALYSIS DATA SHEET

EPA SAMPLE NO:

HAA-PH6-TK8-W 5
0X

Lab Name: SWL-TULSA Contract:

Lab Code: SWOK Case No:EARTH-TEC SDG No: 33902

Matrix: (soil/water) WATER Lab Sample ID: 33902.06

Sample wt/vol: 1000m Lab File ID: 2AH0527A

Level:(low/med) LOW Date Received: 05/08/98

% Moisture: N/A pH: 0.00 Date Extracted: 05/11/98

Extraction Method: SEPF/S Date Analyzed: 05/28/98

GPC Cleanup: (Y/N) N Dilution Factor: 50.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	NAPHTHALENE	450	U
208-96-8	ACENAPHTHYLENE	575	U
83-32-9	ACENAPHTHENE	450	U
86-73-7	FLUORENE	52.5	U
85-01-8	PHENANTHRENE	28.7	J
120-12-7	ANTHRACENE	6.06	J
206-44-0	FLUORANTHENE	48.8	J
129-00-0	PYRENE	43.4	J
56-55-3	BENZO(a)ANTHRACENE	16.1	
218-01-9	CHRYSENE	11.4	J
205-99-2	BENZO(b)FLUORANTHENE	13.1	
207-08-9	BENZO(k)FLUORANTHENE	4.84	
50-32-8	BENZO(a)PYRENE	5.77	
53-70-3	DIBENZO(a,h)ANTHRACENE	7.50	U
191-24-2	BENZO(g,h,i)PERYLENE	13.6	PJ
193-39-5	INDENO(1,2,3-cd)PYRENE	4.17	J

SURROGATE AMOUNT SPIKED (ug/L) 15.0
2-F BIPHENYL & TERPHENYL

FORM I

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HAAPH6TK9W

Lab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33902.07

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4930.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. _____ Date Analyzed: 05/11/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	5	
108-88-3	TOLUENE	170	
100-41-4	ETHYL BENZENE	100	
13-302-07	m,p-XYLENES	580	E
95-47-6	o-XYLENE	120	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HAAPH6TK9WDL

Lab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33902.07DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4973.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. _____ Date Analyzed: 05/12/98

Column: (pack/cap) CAP Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	20	U
108-88-3	TOLUENE	120	D
100-41-4	ETHYL BENZENE	79	D
13-302-07	m,p-XYLENES	470	D
95-47-6	o-XYLENE	100	D

1D
PAH ANALYSIS DATA SHEET

EPA SAMPLE NO:

HAA-PH6-TK9-W 5
0X
HAA-PH6-TK9-W

Lab Name: SWL-TULSA Contract:

Lab Code: SWOK Case No:EARTH-TEC SDG No: 33902

Matrix: (soil/water) WATER Lab Sample ID: 33902.07

Sample wt/vol: 1000m Lab File ID: 2AH0527A

Level:(low/med) LOW Date Received: 05/08/98

% Moisture: N/A pH: 0.00 Date Extracted: 05/11/98

Extraction Method: SEPF/S Date Analyzed: 05/28/98

GPC Cleanup: (Y/N) N Dilution Factor: 50.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	NAPHTHALENE	450	U
208-96-8	ACENAPHTHYLENE	575	U
83-32-9	ACENAPHTHENE	450	U
86-73-7	FLUORENE	52.5	U
85-01-8	PHENANTHRENE	32.0	J
120-12-7	ANTHRACENE	6.72	J
206-44-0	FLUORANTHENE	52.6	
129-00-0	PYRENE	49.5	J
56-55-3	BENZO(a)ANTHRACENE	17.7	
218-01-9	CHRYSENE	12.7	J
205-99-2	BENZO(b)FLUORANTHENE	14.3	
207-08-9	BENZO(k)FLUORANTHENE	5.25	
50-32-8	BENZO(a)PYRENE	6.92	
53-70-3	DIBENZO(a,h)ANTHRACENE	19.7	P
191-24-2	BENZO(g,h,i)PERYLENE	16.4	PJ
193-39-5	INDENO(1,2,3-cd)PYRENE	4.99	J

SURROGATE AMOUNT SPIKED (ug/L) 15.0
2-F BIPHENYL & TERPHENYL

FORM I

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AAPH6TK10W
HAA-PHL-TKID-10

ab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33902.08

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4931.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. _____ Date Analyzed: 05/11/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	5	
108-88-3	TOLUENE	170	
100-41-4	ETHYL BENZENE	110	
13-302-07	m,p-XYLENES	610	E
95-47-6	o-XYLENE	130	

FORM I VOA

8260

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AAPH6TK10WDL

Lab Name: SWL-TULSA Contract: HUNTER AA

Lab Code: SWOK Case No.: EARTH-V SAS No.: SDG No.: 33816

Matrix: (soil/water) WATER Lab Sample ID: 33902.08DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL4974.D

Level: (low/med) LOW Date Received: 05/08/98

% Moisture: not dec. _____ Date Analyzed: 05/12/98

Column: (pack/cap) CAP Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	BENZENE	20	U
108-88-3	TOLUENE	120	D
100-41-4	ETHYL BENZENE	81	D
13-302-07	m,p-XYLENES	490	D
95-47-6	o-XYLENE	100	D

1D

PAH ANALYSIS DATA SHEET

EPA SAMPLE NO:

HAA-PH6-TK10-W
50X
HAA-PH6-TK10-W

Lab Name: SWL-TULSA Contract:

Lab Code: SWOK Case No:EARTH-TEC SDG No: 33902

Matrix: (soil/water) WATER Lab Sample ID: 33902.08

Sample wt/vol: 1000m Lab File ID: 2AH0527A

Level:(low/med) LOW Date Received: 05/08/98

% Moisture: N/A pH: 0.00 Date Extracted: 05/11/98

Extraction Method: SEPF/S Date Analyzed: 05/28/98

GPC Cleanup: (Y/N) N Dilution Factor: 50.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	NAPHTHALENE	450	U
208-96-8	ACENAPHTHYLENE	575	U
83-32-9	ACENAPHTHENE	450	U
86-73-7	FLUORENE	52.5	U
85-01-8	PHENANTHRENE	23.1	J
120-12-7	ANTHRACENE	5.10	J
206-44-0	FLUORANTHENE	46.2	J
129-00-0	PYRENE	42.5	J
56-55-3	BENZO(a)ANTHRACENE	13.8	
218-01-9	CHRYSENE	14.0	PJ
205-99-2	BENZO(b)FLUORANTHENE	11.9	
207-08-9	BENZO(k)FLUORANTHENE	4.39	
50-32-8	BENZO(a)PYRENE	4.80	J
53-70-3	DIBENZO(a,h)ANTHRACENE	7.50	U
191-24-2	BENZO(g,h,i)PERYLENE	11.9	PJ
193-39-5	INDENO(1,2,3-cd)PYRENE	3.76	J

SURROGATE AMOUNT SPIKED (ug/L) 15.0
2-F BIPHENYL & TERPHENYL

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-DF-1R
HAA-P46-GW-DF-1R

Lab Name: SWL-TULSA Contract: HUNTER ARMY

Lab Code: SWOK Case No.: EARTHVA SAS No.: SDG No.: 34977

Matrix: (soil/water) WATER Lab Sample ID: 34990.07

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N32147.D

Level: (low/med) LOW Date Received: 07/25/98

% Moisture: not dec. _____ Date Analyzed: 07/31/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	4	J
75-25-2	BROMOFORM	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	6	
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	380	E
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U
96-18-4	1 2 3-TRICHLOROPROPANE	5	U
75-71-8	DICHLORODIFLUOROMETHANE	5	U
75-69-4	TRICHLOROFLUOROMETHANE	5	U
74-95-3	DIBROMOMETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-DF-1R
HAA-PH6-GW-DF-1R

Lab Name: SWL-TULSA Contract: HUNTER ARMY

Lab Code: SWOK Case No.: EARTHVA SAS No.: SDG No.: 34977

Matrix: (soil/water) WATER Lab Sample ID: 34990.07

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N32147.D

Level: (low/med) LOW Date Received: 07/25/98

% Moisture: not dec. _____ Date Analyzed: 07/31/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	BROMOBENZENE	5	U
104-51-8	n-BUTYLBENZENE	6	
98-06-6	tert-BUTYLBENZENE	5	U
135-98-8	sec-BUTYLBENZENE	9	
95-49-8	2-CHLOROTOLUENE	5	U
106-43-4	4-CHLOROTOLUENE	5	U
95-50-1	1 2-DICHLOROBENZENE	5	U
541-73-1	1 3-DICHLOROBENZENE	5	U
106-46-7	1 4-DICHLOROBENZENE	5	U
142-28-9	1 3-DICHLOROPROPANE	5	U
594-20-7	2 2-DICHLOROPROPANE	5	U
563-58-6	1 1-DICHLOROPROPENE	5	U
87-68-3	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	70	
99-87-6	p-ISOPROPYLTOLUENE	16	
91-20-3	NAPHTHALENE	290	E
103-65-1	n-PROPYLBENZENE	64	
87-61-6	1 2 3-TRICHLOROBENZENE	5	U
120-82-1	1 2 4-TRICHLOROBENZENE	5	U
95-63-6	1 2 4-TRIMETHYLBENZENE	240	E
108-67-8	1 3 5-TRIMETHYLBENZENE	170	
74-97-5	BROMOCHLOROMETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-DF-1RDL
HAA-PH6-GW-DF-1RDL

Lab Name: SWL-TULSA Contract: HUNTER ARMY

Lab Code: SWOK Case No.: EARTHVA SAS No.: SDG No.: 34977

Matrix: soil/water: WATER Lab Sample ID: 34990.07DL

Sample wt/vol: 5.0 g/mL. ML Lab File ID: VL5865.D

Level: (low/med) LOW Date Received: 07/25/98

% Moisture: not dec. _____ Date Analyzed: 08/06/98

Column: (pack/cap) CAP Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10	U
74-83-9	BROMOMETHANE	10	U
75-01-4	VINYL CHLORIDE	10	U
75-00-3	CHLOROETHANE	10	U
75-09-2	METHYLENE CHLORIDE	10	U
75-35-4	1 1-DICHLOROETHENE	10	U
75-34-3	1 1-DICHLOROETHANE	10	U
67-66-3	CHLOROFORM	10	U
107-06-2	1 2-DICHLOROETHANE	10	U
71-55-6	1 1 1-TRICHLOROETHANE	10	U
56-23-5	CARBON TETRACHLORIDE	10	U
75-27-4	BROMODICHLOROMETHANE	10	U
78-87-5	1 2-DICHLOROPROPANE	10	U
79-01-6	TRICHLOROETHENE	10	U
124-48-1	DIBROMOCHLOROMETHANE	10	U
79-00-5	1 1 2-TRICHLOROETHANE	10	U
71-43-2	BENZENE	10	U
75-25-2	BROMOFORM	10	U
127-18-4	TETRACHLOROETHENE	10	U
108-88-3	TOLUENE	10	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	10	U
108-90-7	CHLOROBENZENE	10	U
100-41-4	ETHYL BENZENE	8	JD
100-42-5	STYRENE	10	U
156-59-2	cis-1 2-DICHLOROETHENE	10	U
156-60-5	trans-1 2-DICHLOROETHENE	10	U
13-302-07	m,p-XYLENES	4	JD
95-47-6	o-XYLENE	10	U
106-93-4	1 2-DIBROMOETHANE	10	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	10	U
96-18-4	1 2 3-TRICHLOROPROPANE	10	U
75-71-8	DICHLORODIFLUOROMETHANE	10	U
75-69-4	TRICHLOROFLUOROMETHANE	10	U
74-95-3	DIBROMOMETHANE	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-DF-1RDL
HAA-PH6-GW-DF-1RDL

Lab Name: SWL-TULSA Contract: HUNTER ARMY

Lab Code: SWOK Case No.: EARTHVA SAS No.: SDG No.: 34977

Matrix: soil/water) WATER Lab Sample ID: 34990.07DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL5865.D

Level: (low/med) LOW Date Received: 07/25/98

% Moisture: not dec. _____ Date Analyzed: 08/06/98

Column: (pack/cap) CAP Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	10	U
108-86-1	BROMOBENZENE	10	U
104-51-8	n-BUTYLBENZENE	10	U
98-06-6	tert-BUTYLBENZENE	10	U
135-98-8	sec-BUTYLBENZENE	10	U
95-49-8	2-CHLOROTOLUENE	10	U
106-43-4	4-CHLOROTOLUENE	10	U
95-50-1	1 2-DICHLOROBENZENE	10	U
541-73-1	1 3-DICHLOROBENZENE	10	U
106-46-7	1 4-DICHLOROBENZENE	10	U
142-28-9	1 3-DICHLOROPROPANE	10	U
594-20-7	2 2-DICHLOROPROPANE	10	U
563-58-6	1 1-DICHLOROPROPENE	10	U
87-68-3	HEXACHLOROBUTADIENE	10	U
98-82-8	ISOPROPYLBENZENE	10	U
99-87-6	p-ISOPROPYLTOLUENE	10	U
91-20-3	NAPHTHALENE	95	D
103-65-1	n-PROPYLBENZENE	10	U
87-61-6	1 2 3-TRICHLOROBENZENE	10	U
120-82-1	1 2 4-TRICHLOROBENZENE	10	U
95-63-6	1 2 4-TRIMETHYLBENZENE	4	JD
108-67-8	1 3 5-TRIMETHYLBENZENE	10	U
74-97-5	BROMOCHLOROMETHANE	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APH6GWDF1RRE
HAA-PH6-GW-DF-1R

Lab Name: SWL-TULSA Contract: HUNTER ARMY

Lab Code: SWOK Case No.: EARTH- SAS No.: SDG No.: 34977

Matrix: (soil/water) WATER Lab Sample ID: 34990.07RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M11409.D

Level: (low/med) LOW Date Received: 07/25/98

% Moisture: not dec. 0 dec. Date Extracted: 08/04/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/10/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.5 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	2	JB
111-44-4	bis(2-Chloroethyl)ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
100-51-6	Benzyl alcohol	20	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
108-60-1	bis(2-Chloroisopropyl)ether	20	U
106-44-5	4-Methylphenol	20	U
621-64-7	N-Nitroso-di-n-propylamine	20	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	20	U
105-67-9	2,4-Dimethylphenol	20	U
65-85-0	Benzoic Acid	100	U
111-91-1	bis(2-Chloroethoxy)methane	20	U
120-83-2	2,4-Dichlorophenol	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	190	
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-methylphenol	20	U
91-57-6	2-Methylnaphthalene	90	
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	100	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	100	U
131-11-3	Dimethylphthalate	20	U
208-96-8	Acenaphthylene	20	U
606-20-2	2,6-Dinitrotoluene	20	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APH6GWDF1RRE
HAA-PH6-GW-DF-1R

Lab Name: SWL-TULSA Contract: HUNTER ARMY

ab Code: SWOK Case No.: EARTH- SAS No.: SDG No.: 34977

Matrix: (soil/water) WATER Lab Sample ID: 34990.07RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M11409.D

Level: (low/med) LOW Date Received: 07/25/98

% Moisture: not dec. 0 dec. Date Extracted: 08/04/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/10/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.5 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	100	U
83-32-9	Acenaphthene	20	U
121-14-2	2,4-Dinitrotoluene	20	U
51-28-5	2,4-Dinitrophenol	100	U
100-02-7	4-Nitrophenol	100	U
132-64-9	Dibenzofuran	20	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	100	U
534-52-1	4,6-Dinitro-2-methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine (1)	20	U
101-55-3	4-Bromophenylphenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-butylphthalate	20	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	40	U
56-55-3	Benzo(a)anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	bis(2-Ethylhexyl)phthalate	4	J
117-84-0	Di-n-octylphthalate	20	U
205-99-2	Benzo(b)fluoranthene	20	U
207-08-9	Benzo(k)fluoranthene	20	U
50-32-8	Benzo(a)pyrene	20	U
193-39-5	Indeno(1,2,3-cd)pyrene	20	U
53-70-3	Dibenz(a,h)anthracene	20	U
191-24-2	Benzo(g,h,i)perylene	20	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APH6GWDF2RRE
HAA-PH6-GW-DF-2R

Lab Name: SWL-TULSA Contract: HUNTER ARMY

Lab Code: SWOK Case No.: EARTH- SAS No.: SDG No.: 34977

Matrix: (soil/water) WATER Lab Sample ID: 34990.08RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M11400.D

Level: (low/med) LOW Date Received: 07/25/98

% Moisture: not dec. 0 dec. Date Extracted: 08/04/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/08/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	10	J
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	59	
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	84	
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APH6GWDF2RRE
HAA-PH6-GW-DF-2R

Lab Name: SWL-TULSA Contract: HUNTER ARMY

ab Code: SWOK Case No.: EARTH- SAS No.: SDG No.: 34977

Matrix: (soil/water) WATER Lab Sample ID: 34990.08RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M11400.D

Level: (low/med) LOW Date Received: 07/25/98

% Moisture: not dec. 0 dec. Date Extracted: 08/04/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/08/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	18	
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

Lab Name: SWL-TULSA

Contract: HUNTER ARMY

PH6-GW-DF-
HAA-PH6-GW-DF-

Lab Code: SWOK

Case No.: EARTHVA SAS No.:

SDG No.: 34977

Matrix: (soil/water) WATER

Lab Sample ID: 34990.08

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: N32146.D

Level: (low/med) LOW

Date Received: 07/25/98

% Moisture: not dec. _____

Date Analyzed: 07/31/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	BROMOBENZENE	5	U
104-51-8	n-BUTYLBENZENE	4	J
98-06-6	tert-BUTYLBENZENE	5	U
135-98-8	sec-BUTYLBENZENE	9	
95-49-8	2-CHLOROTOLUENE	5	U
106-43-4	4-CHLOROTOLUENE	5	U
95-50-1	1 2-DICHLOROBENZENE	5	U
541-73-1	1 3-DICHLOROBENZENE	5	U
106-46-7	1 4-DICHLOROBENZENE	5	U
142-28-9	1 3-DICHLOROPROPANE	5	U
594-20-7	2 2-DICHLOROPROPANE	5	U
563-58-6	1 1-DICHLOROPROPENE	3	J
87-68-3	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	22	
99-87-6	p-ISOPROPYLTOLUENE	7	
91-20-3	NAPHTHALENE	20	
103-65-1	n-PROPYLBENZENE	30	
87-61-6	1 2 3-TRICHLOROBENZENE	5	U
120-82-1	1 2 4-TRICHLOROBENZENE	5	U
95-63-6	1 2 4-TRIMETHYLBENZENE	22	
108-67-8	1 3 5-TRIMETHYLBENZENE	11	
74-97-5	BROMOCHLOROMETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PH6-GW-DF-2R
HAA-PH6-GW-DF-2R

Lab Name: SWL-TULSA Contract: HUNTER ARMY

Lab Code: SWOK Case No.: EARTHVA SAS No.: SDG No.: 34977

Matrix: (soil/water) WATER Lab Sample ID: 34990.08

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N32146.D

Level: (low/med) LOW Date Received: 07/25/98

% Moisture: not dec. _____ Date Analyzed: 07/31/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	1	J
75-25-2	BROMOFORM	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	5	U
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	14	
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U
96-18-4	1 2 3-TRICHLOROPROPANE	5	U
75-71-8	DICHLORODIFLUOROMETHANE	5	U
75-69-4	TRICHLOROFLUOROMETHANE	5	U
74-95-3	DIBROMOMETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PH6-GW-DF-3R
HAA-PH6-GW-DF-3R

Lab Name: SWL-TULSA Contract: HUNTER ARMY

Lab Code: SWOK Case No.: EARTHVA SAS No.: SDG No.: 34977

Matrix: (soil/water) WATER Lab Sample ID: 34990.09

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N32145.D

Level: (low/med) LOW Date Received: 07/25/98

% Moisture: not dec. _____ Date Analyzed: 07/31/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	1	J
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	2	J
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	35	
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U
96-18-4	1 2 3-TRICHLOROPROPANE	5	U
75-71-8	DICHLORODIFLUOROMETHANE	5	U
75-69-4	TRICHLOROFLUOROMETHANE	5	U
74-95-3	DIBROMOMETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PH6-GW-DF-3R
HAA-PH6-GW-DF-3R

Lab Name: SWL-TULSA Contract: HUNTER ARMY

Lab Code: SWOK Case No.: EARTHVA SAS No.: SDG No.: 34977

Matrix: (soil/water) WATER Lab Sample ID: 34990.09

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N32145.D

Level: (low/med) LOW Date Received: 07/25/98

% Moisture: not dec. _____ Date Analyzed: 07/31/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	BROMOBENZENE	5	U
104-51-8	n-BUTYLBENZENE	4	U
98-06-6	tert-BUTYLBENZENE	5	U
135-98-8	sec-BUTYLBENZENE	10	
95-49-8	2-CHLOROTOLUENE	5	U
106-43-4	4-CHLOROTOLUENE	5	U
95-50-1	1 2-DICHLOROBENZENE	5	U
541-73-1	1 3-DICHLOROBENZENE	5	U
106-46-7	1 4-DICHLOROBENZENE	5	U
142-28-9	1 3-DICHLOROPROPANE	5	U
594-20-7	2 2-DICHLOROPROPANE	5	U
563-58-6	1 1-DICHLOROPROPENE	5	U
87-68-3	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	32	
99-87-6	p-ISOPROPYLTOLUENE	14	
91-20-3	NAPHTHALENE	37	
103-65-1	n-PROPYLBENZENE	36	
87-61-6	1 2 3-TRICHLOROBENZENE	5	U
120-82-1	1 2 4-TRICHLOROBENZENE	5	U
95-63-6	1 2 4-TRIMETHYLBENZENE	110	
108-67-8	1 3 5-TRIMETHYLBENZENE	85	
74-97-5	BROMOCHLOROMETHANE	5	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APH6GWDF3RRE
HAA-PH6-GW-DF-3R

Lab Name: SWL-TULSA Contract: HUNTER ARMY

Lab Code: SWOK Case No.: EARTH- SAS No.: SDG No.: 34977

Matrix: (soil/water) WATER Lab Sample ID: 34990.09RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M11401.D

Level: (low/med) LOW Date Received: 07/25/98

% Moisture: not dec. 0 dec. Date Extracted: 08/04/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/08/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	53	
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	96	
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APH6GWDF3RRE

HAA-PH6-GW-DF-3R

Lab Name: SWL-TULSA Contract: HUNTER ARMY

ab Code: SWOK Case No.: EARTH- SAS No.: SDG No.: 34977

Matrix: (soil/water) WATER Lab Sample ID: 34990.09RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: M11401.D

Level: (low/med) LOW Date Received: 07/25/98

% Moisture: not dec. 0 dec. Date Extracted: 08/04/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/08/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	1	J
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	8	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W Albany • Broken Arrow, Oklahoma 74012-1421
Office: 918-251-2858 • Fax 918-251-2599

TM

SAMPLING FIRM: EARTH TECH

CLIENT CONTACT: Jean McKee

PHONE NUM: 423-4[illegible]-9404

P.O. or PROPOSAL NUMBER:

PROJECT NAME: Hunter Army Airfield

SAMPLER (Signature): Deborah S. Sanders

92

ANALYTICAL TESTS REQUESTED

SAMPLE ID	DATE	TIME	COMP	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	~~Metals~~	BTEX (8260)	PAH (8310)						REMARKS
HAA-PHC TKI-W	4-30	1500		X	Pump House 6	H_2O	2		X							40 mL
HAAPHC TKI-W	4-30	1505		X	" "	"	1			X						1 Liter
HAA-PHC TB1	4-30	1510				"	2		X							40 mL
HAA-PHC W-TK2	4-30	1605		X	Pumphouse 6	"	2		X							40 mL
HAA-PHC W-TK2	4-30	1605		X	Pumphouse 6	"	1			X						1 Liter

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
Michael B. [illegible]	4-30	1735	FedEX
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY (Signature)
	5/1/98	9:45	S. Hooton

REMARKS

6°C

ISR012-1192-03

6

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W. Albany • Broken Arrow, Oklahoma 74012-1421
Office: 918-251-2858 • Fax 918-251-2599

TM

SAMPLING FIRM: EARTH TECH
CLIENT CONTACT: Jean McKee
PHONE NUMBER: 423-483-9404
P.O. or PROPOSAL NUMBER:
PROJECT NAME: HAAF 2668 a

SAMPLER (Signature): Michael Bifford

ANALYTICAL TESTS REQUESTED

	SAMPLE ID	DATE	TIME	COMP	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	BTEX	PAHs							REMARKS
HAA-	PH6-TK3-W	5-1	~~1150~~ 1140		X	Pumphouse 6	H_2O	2	X								40 mL
		5-1															
HAA-	PH6-TK3-W	5-1	~~1150~~ 1140		X	Pumphouse 6	H_2O	1		X							1 Liter
HAA-	PH6-TK4-W	5-1	1215		X	" "	"	2	X								40 mL
HAA-	PH6-TK4-W	5-1	1215		X	" "	"	1		X							1 Liter
HAA-	PH6-TK5-W	5-1	1140		X	" "	"	2									40 mL
HAA-	PH6-TK5-W	5-1	1140		X	" "	"	1									1 Liter
HAA-	PH6-TB2	5-1	1150		X		"	2	X								40 mL

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
Michael Bifford	5-1	1750	Fedex
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY (Signature)
	5/2/98	9:45	S. Hudson.

REMARKS

[SR012-1192-03]

207

30

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W Albany • Broken Arrow, Oklahoma 74012-1421
Office: 918-251-2858 • Fax 918-251-2599

TM

SAMPLING FIRM: EARTH TECH / OAK RIDGE

CLIENT CONTACT: JEAN MCKEE

PHONE NU: (423) 48_ 9404

P O or PROPOSAL NUMBER:

PROJECT NAME: HUNTER ARMY AIRFIELD

SAMPLER (Signature): [signature]

ANALYTICAL TESTS REQUESTED

SAMPLE ID	DATE	TIME	COMP	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	BTEX (8260)	PAHs (8310)							REMARKS
HAA-PH6 TK6W	5/6/98	1530		✓	PUMPHOUSE 6	W	3	✓	✓							
HAA-PH6 TK6WD	5/6/98	1535		✓	PUMPHOUSE 6	W	3	✓	✓							DUPLICATE
HAA-PH6 TK7W	5/6/98	1540		✓	PUMPHOUSE 6	W	9	✓	✓							INCL. ADDITIONAL VOL. FOR MS/MSD
HAA-PH6 TK8W	5/6/98	1550		✓	PUMPHOUSE 6	W	3	✓	✓							
HAA-PH6 TK9W	5/6/98	1555		✓	PUMPHOUSE 6	W	3	✓	✓							
HAA-PH6 TK10W	5/6/98	1600		✓	PUMPHOUSE 6	W	3	✓	✓							
HAA-PH6 TB2	4/24/98	1515		✓		W	2	✓								TRIP BLANK

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)
[signature]	5/7/98	1800	

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY (Signature)
			C. Miller 5-8-98

REMARKS: 3°C

CR012-1192-03

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 W Albany • Broken Arrow, Oklahoma 74012 1421
Office 918 251-2858 • Fax 918 251 2599

SAMPLING FIRM: EARTH TECH
CLIENT CONTACT: Jean McKee
PHONE NUMBER: 423 483-9400
P.O. or PROPOSAL NUMBER:
PROJECT NAME: HAAF
SAMPLER (Signature): Mike Bryant

ANALYTICAL TESTS REQUESTED

SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE ID LOCATION	MATRIX	NUMBER OF CONTAINERS	VOC 8260	SVOC 8270	TPA-ORC	BTEX 8260	PAH 8310	TPH-GRO			REMARKS
	7-24	0830		X	HAAF 260-UST-D1GW	H2O	4	X	X							
	"	0935		X	HAAF 260 UST-D2GW	"	"	X	X							
	"	1030		X	HAAF-260-UST-D3GW	"	"	X	X							
	"	1115		X	HAAF 260 UST D4GW	"	"	X	X							
	"	1130		X	HAAF 260-UST-D-MS/MSD	"	"	X	X							Duplicate of HAAF 260 UST D4 GW
	7-23	1730		X	HAAF-260-DS 1-G-S	SC.1	2				X	X	X			
	"	1230		X	HAAF-260-DS-1-DP	"	2				X	X	X			Dup of HAAF-260-DS-1-G-S
	"	1800		X	HAAF-260 DS-2-S	"	2				X	X	X			
	7-24	1321		X	HAA-DMG-GW-DF	IR/H2O	4	X	X							
	7-24	1400		X	HAA-DMG-GW-DF-2R	H2O	4	X	X							
	7-24	1430		X	HAA-DMG-GW-DF-3R	H2O	4	X	X							
	7-25-98	1615		X	HAF-260-TB-2	H2O	1	X								

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)
Mike Bryant	7-24	1842	Fed Ex				

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY (Signature)
							7/25/98 9:15 E Mainlaug

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	REMARKS

59°, 4.3°C

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

June 17, 1998

PH #2
VSTs 40, 41
42-49

Mr. Carey W. Brown
3rd Infantry Division (M)
1557 Frank Cochran Drive
Fort Stewart, GA 31314-4928

SUBJECT: Corrective Action Plan (CAP)-Part A:
Hunter Army Airfield (FAC 8065)
Building 8065
Savannah, GA; Chatham County
Facility ID: 9025086*1

References
PH's 1, 2 & 6
ID# 9025085
9025086
9025090

Dear Mr. Brown:

This is to acknowledge your letters, dated January 29, 1998, and October 7, 1997, requesting a waiver of additional soil sampling for the closure of the remaining USTs, and requesting the use of In-stream Water Quality Standards in lieu of the MCLs for regulatory compliance.

Since the soil contamination at the site has already been fully delineated, your request for a waiver of additional soil sampling is approved. However, your request to use In-stream Water Quality Standards as the regulatory limit for groundwater contamination is not approved. Due to the proximity of the public wells, the MCLs are the required regulatory limit, unless risk assessment and groundwater fate and transport modeling in the CAP-B can support an Alternate Concentration Limit (ACL). Any proposed ACLs calculated as part of the CAP-B are subject to EPD approval.

Please submit an updated milestone schedule by July 12, 1998, listing specific dates, events, and a time table to complete the proposed activities and submit the CAP-B.

If you have any questions, please contact the undersigned at (404)362-2687.

Sincerely,

Kenneth F. White, Ph. D.
Environmental Specialist
Corrective Action Unit

KFW;
g:\landdocs\kennethw\zina\9025086.120

cc: David Wilderman, P.G., Metcalf & Eddy
Lisa L. Lewis, EPD

File (CA): Chatham; 9025086

*** UST Upgrade Deadline - December 22, 1998 ***

File copy

DEPARTMENT OF THE ARMY
HEADQUARTERS, 3D INFANTRY DIVISION (MECHANIZED) AND FORT STEWART
Public Works Business Center
1557 Frank Cochran Drive
Fort Stewart, Georgia 31314-4928

January 29, 1998

REPLY TO
ATTENTION OF

Public Works Business Center

CERTIFIED MAIL

Georgia Department of Natural Resources
Environmental Protection Division
Underground Storage Tank Management Program
Attention: Dr. Kenneth F. White, Environmental Specialist
4244 International Parkway, Suite 104
Atlanta, Georgia 30354

Dear Dr. White:

Fort Stewart is planning to award a project during 2nd quarter, fiscal year 1998 (i.e., January through March 1998) that will accomplish the following at Hunter Army Airfield regarding Pumphouses (PHs) 1, 2, and 6, Facility Identification Numbers 9025085, 9025086, and 9015090, respectively:

- PH #1 (Building 8060) - Removal of the remaining two 25,000 gallon underground storage tanks (USTs) and closure in-place of one 50,000 gallon defuel UST.

- PH #2 (Building 8065) - Removal of the remaining two 25,000 gallon USTs.

- PH #6 (Building 8070) - Removal of ten 50,000 gallon USTs and closure in-place of one 50,000 gallon defuel UST.

- Pipelines - In-place closure of the pipeline used to fill the USTs at PHs #1 and #2, and in-place closure of the inactive portion of the pipeline used to fill the USTs at PH #6.

Fort Stewart submitted Corrective Action Plan (CAP)-Part As for these three facilities on May 14, 1997. Each of the respective CAP-Part As recommended further delineation of soil and groundwater contamination and preparation of a formal CAP-Part B. To date, the field work for the CAP-Part Bs has been completed, and individual CAP-Part B reports will be submitted to GA EPD in the next few weeks.

As indicated in the CAPs, extensive groundwater screening was conducted at these three facilities using the Goresorber® technology. The Installation's contractor installed 750 Goresorber® probes across the area encompassing the three pumphouses and used the resulting analytical information to graphically depict groundwater contamination. This information was also used to select points to install permanent monitoring wells and collect soil boring samples, resulting in very well defined soil and groundwater plumes for these facilities. As stated in the CAP-Part Bs, both vertical and horizontal extent of contamination has been defined, and further delineation is not required at any of the facilities.

Since soil and groundwater contamination has been completely defined at these three facilities, Ms. Melanie Little, in a teleconference with Dr. White on January 13, 1998, requested that GA EPD consider allowing Fort Stewart to forego the sampling required by GUST-9 ("So You Want to Close An UST") as follows:

PH #1 - Request that additional samples at the bottom of the tank excavations during removal and in-place closure activities (two 25,000 gallon USTs and one 50,000 gallon defuel UST) not be required. Soil contamination is already confirmed at this facility, and a defined (vertical and horizontal) plume has been established which incorporates the location of the tanks to be removed. Furthermore, a soil vapor extraction system is proposed in the CAP-Part B to treat the soil contamination. Therefore, the additional sampling would not provide any additional information for this facility.

PH #2 - Request that additional samples at the bottom of the tank excavations during removal activities (two 25,000 gallon USTs) not be required. Soil contamination is already confirmed at this facility, and a defined (vertical and horizontal) plume has been established which incorporates the location of the two tanks to be removed. Furthermore, a soil vapor extraction system is proposed in the CAP-Part B to treat the soil contamination. Therefore, the additional sampling would not provide any additional information for this facility.

PH #6 - Request that only one sample (versus the six required by GUST-9) per 50,000 gallon UST, and three samples at the 50,000 gallon defuel UST be required. Soil samples will be obtained, unless groundwater is encountered. If groundwater is encountered, groundwater samples will be collected in lieu of soil samples. An extensive investigation of the soil and

groundwater conditions at and around this facility has already been completed and both vertical and horizontal extent of contamination has been established. For all constituents, the identified contamination does not exceed alternate concentration limits (ACLs) or respective maximum contaminant levels (MCLs). Samples would only be obtained to document the removal activities.

PHs #1 and #2 Pipeline - Along the pipeline to PHs #1 and #2, request that sampling not be required since the area around the pipeline was investigated previously with the Goresorber® technology and confirmed with soil borings and permanent monitoring wells. The contamination existing around certain sections of the pipeline has already been incorporated into the full plume delineation for PHs #1 and #2 and is addressed in the respective CAP-Part Bs for remediation.

PH #6 Pipeline - Along the pipeline from PH #5 (still active) to PH #6 (inactive), request that sampling not be required since the area around the pipeline was investigated previously with the Goresorber® technology and confirmed with soil borings and permanent monitoring wells. The contamination existing around certain sections of the pipeline has already been incorporated into the full plume delineation for PH #6 and does not exceed ACLs and/or respective MCLs.

Metcalf and Eddy, the contractor who has performed the investigations at these facilities, provided Dr. White with site maps of these areas in correspondence dated January 14, 1998. These maps clearly indicated the locations of all soil borings collected during the CAP-Part A and B investigations, the locations of all permanent monitoring wells, and depicted the benzene contamination plume in the groundwater. These maps were provided by request from Dr. White in order to more clearly depict the extensive investigation already conducted throughout this area of Hunter Army Airfield and graphically portray the well defined benzene contamination in the groundwater (i.e., shallow aquifer).

As stated above, the additional sampling would not provide any additional information on the extent of soil and groundwater contamination at these sites. Therefore, the Installation respectfully requests that GA EPD consider granting the "exception to policy" for additional sampling at these sites during the removal action programmed for award this quarter.

I look forward to hearing from you on this matter. An urgent reply is requested. If you have any questions or comments, please contact Ms. Melanie Little or Ms. Tressa Rutland, PWBC Environmental Branch, at (580) 353-8165 or (912) 767-7919, respectively.

Sincerely,

for Dale F. Kiefer

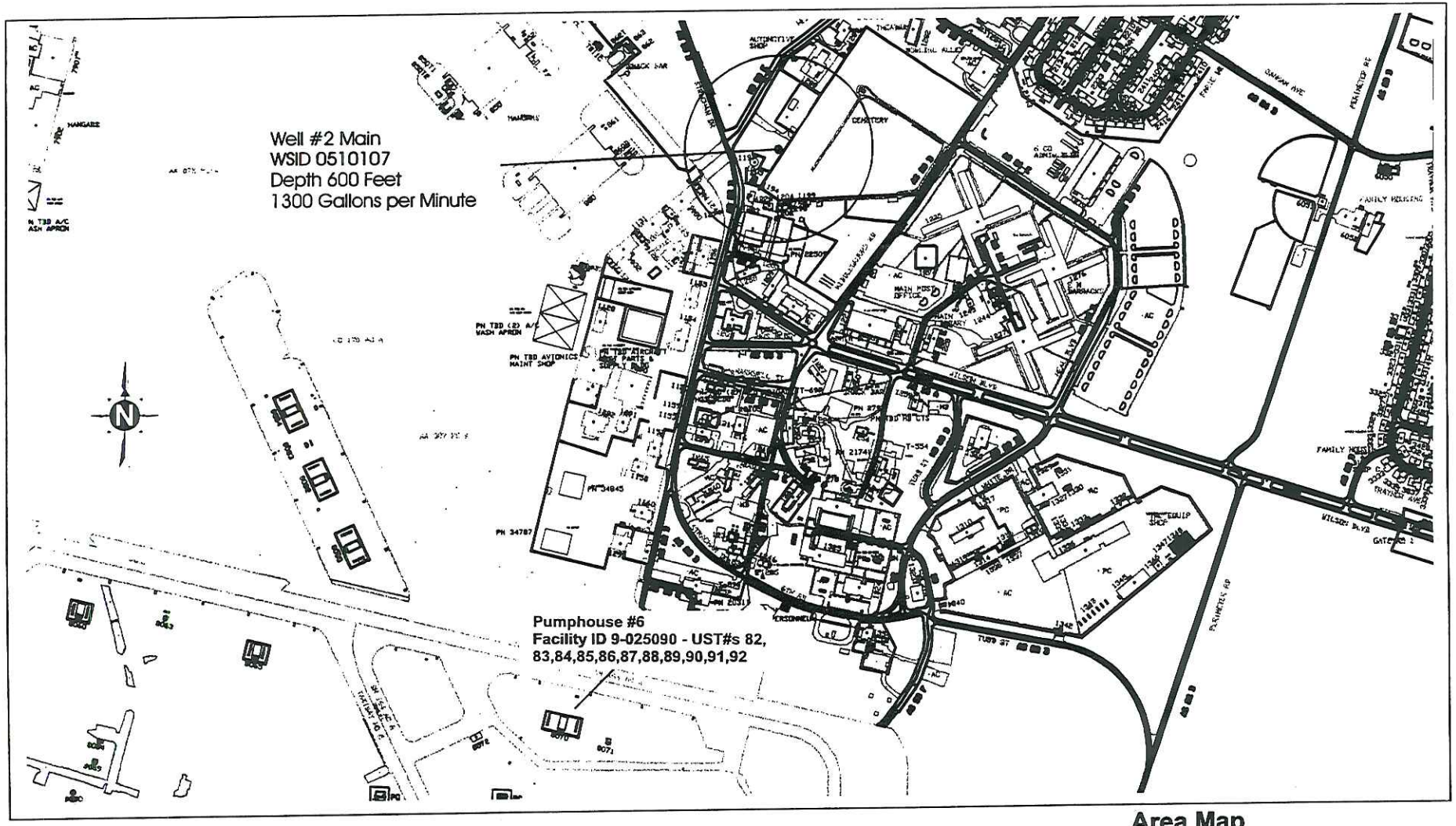
Carey W. Brown
Lieutenant Colonel, U.S. Army
Director, Public Works Business Center

Tab 9
Manifests

EXCAVATION OF CONTAMINATED SOIL AND SUPPORTING MANIFESTS

Approximately 2,550 cubic yards of soil was generated during excavation. The soil is stockpiled at the Installation near the golf course in a bioremediation cell. Therefore, no manifests are included in this report.

Tab 10
Hunter Army Airfield Area Map



EXPLANATION

● Nearest drinking water well to Pumphouse #6. 500 foot radius is indicated.

0 400 800 Feet

Area Map
Hunter Army Airfield
Pumphouse #6
Facility ID 9-025090
UST#s 82-92

Figure 10-1

26682.06/pum6area.cdr 10/98

December 199