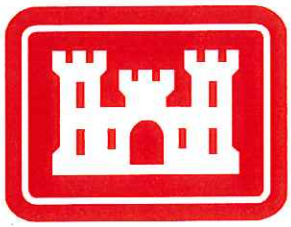
REVISED FINAL COMPLIANCE STATUS REPORT
FOR
FORMER FIRE TRAINING AREA
HUNTER ARMY AIRFIELD
SAVANNAH, GEORGIA
HSI SITE NUMBER 10395
Volume II of II

PREPARED FOR



U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

PROJECT NO.12001-9-3411
CONTRACT NO. DAVA21-97-D-0034-0011

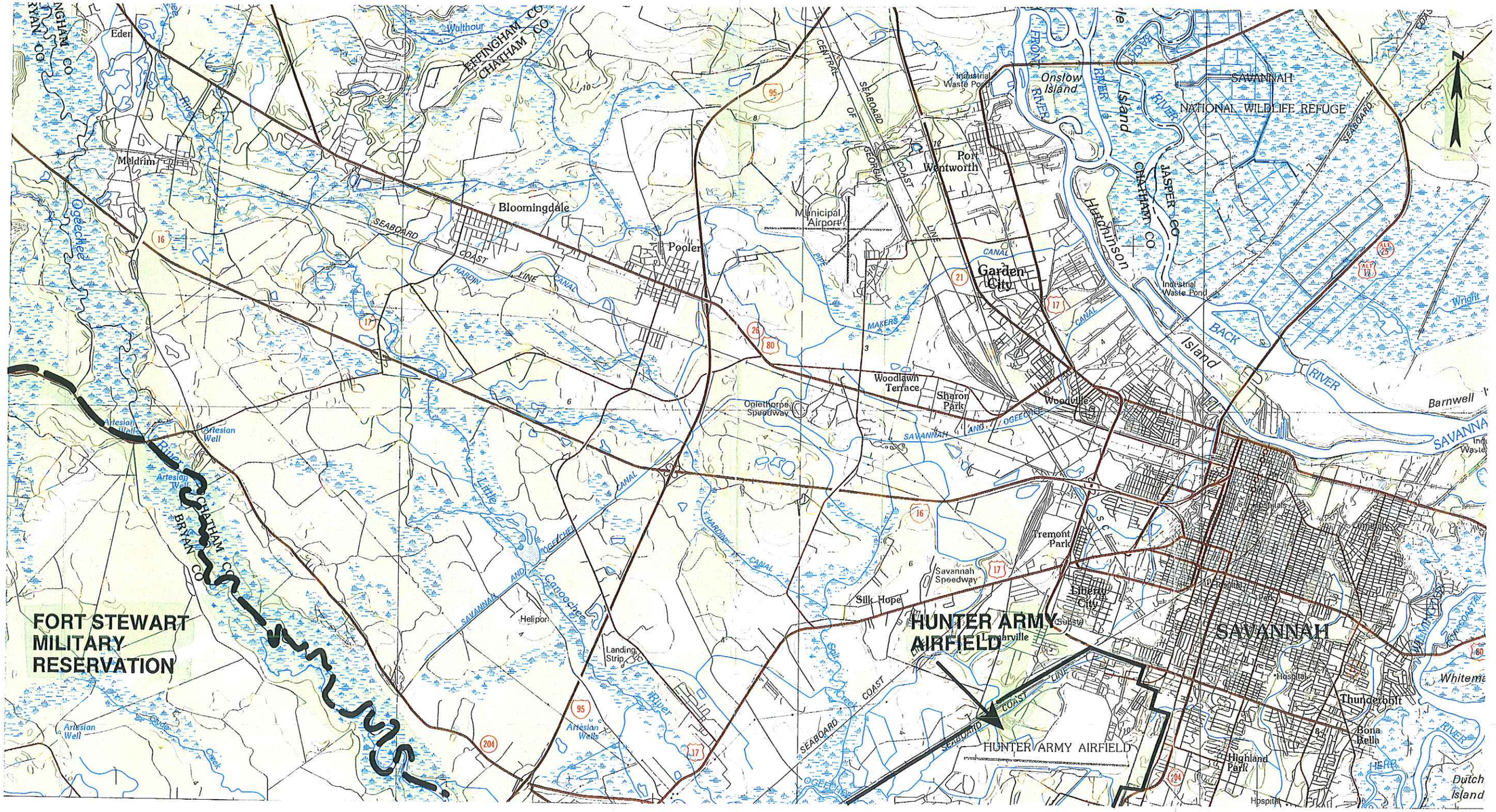
MAY 24, 2002

DOCUMENT 25

FIGURE 2.1

SITE LOCATION MAP

HUNTER ARMY AIRFIELD, GEORGIA



LEGEND

FORT STEWART INSTALLATION BOUNDARY (APPROXIMATE)

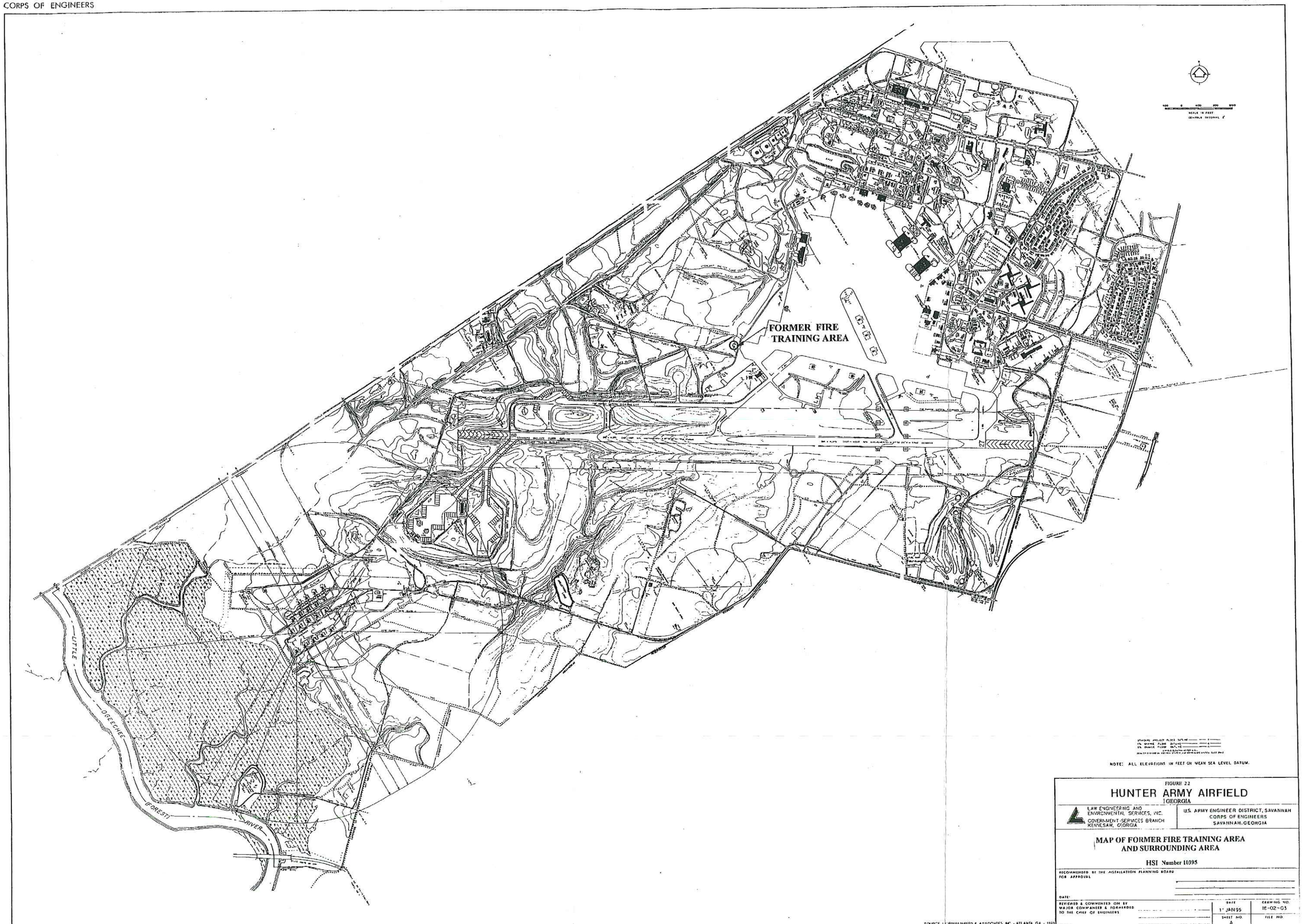
Source: U.S. Geological Survey, Savannah 1:100,000 Topographic Map, 1981. Georgia Bicentennial Highway Map, 1976.

NOTE: HUNTER ARMY AIRFIELD BOUNDARY EXTENDS BEYOND THE SOUTHERN LIMIT OF MAP.

CP

CORPS OF ENGINEERS

U. S. ARMY



NOTE: ALL ELEVATIONS IN FEET ON MEAN SEA LEVEL DATUM.

SOURCE: LAUBMANNPEED & ASSOCIATES, INC. - ATLANTA, GA. - 1989

FIGURE 22

HUNTER ARMY AIRFIELD

GEORGIA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
GOVERNMENT SERVICES BRANCH
KENNESAW, GEORGIA

U.S. ARMY ENGINEER DISTRICT, SAVANNAH
CORPS OF ENGINEERS
SAVANNAH, GEORGIA

MAP OF FORMER FIRE TRAINING AREA AND SURROUNDING AREA

HSI Number 10395

RECOMMENDED BY THE INSTALLATION PLANNING BOARD FOR APPROVAL

DATE:

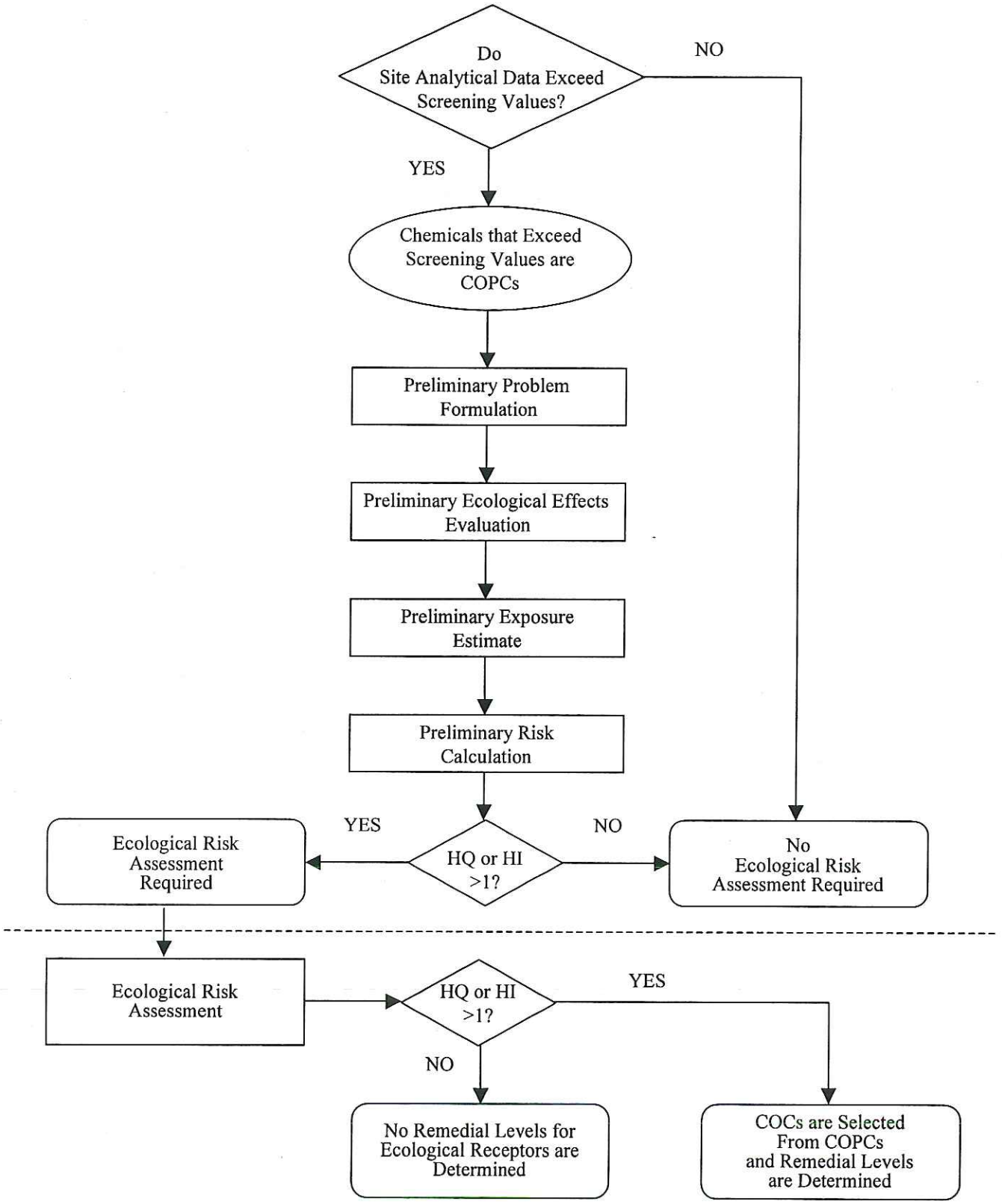
REVIEWED & COMMENDED ON BY MAJOR COMMANDER & FORWARDED TO THE CHIEF OF ENGINEERS

DATE:

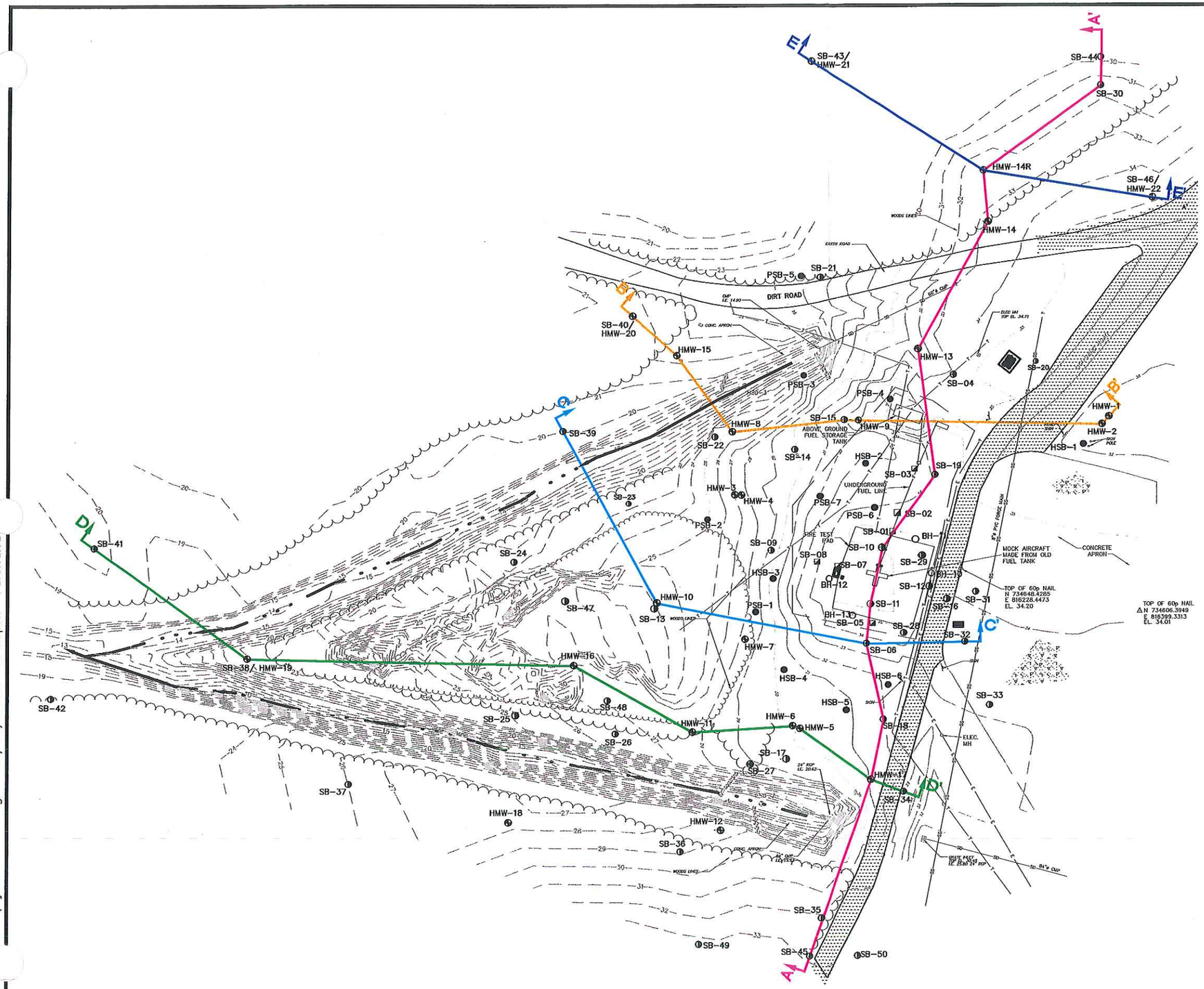
DATE	DRAWING NO.
1 JAN 95	18-02-03
SHEET NO.	FILE NO.
A	

REPLACE THIS PAGE WITH SCANNED MAP!

Figure 3.1
General Process for Assessing Risk and Selecting Remedial Levels for Ecological Receptors



Prepared by: E. Curtis
Checked by: L. Smith



N

LEGEND:

HMW–1 ⊕	ESE MONITORING WELL (1990,1992)
HMW–10 ⊕	LAW MW (1995,1999, 2000 AND 2001)
SB–20 ◑	LAW SOIL BORINGS (1995,1999, 2000 AND 2001)
PSB/HSB–2 ●	ESE SOIL BORINGS (1990,1992)
BH–10 ○	USAEHA SOIL BORINGS (1987)
SB–1 ◪	SOIL GAS SAMPLING BORING
— —20— —	EXISTING CONTOUR
	TREE LINE
— — —	LIMITS OF EXCAVATION (GEOSCIENCE, 1999)
A A'	HYDROGEOLOGIC PROFILE
	DRAINAGE DITCH WITH DIRECTION OF SURFACE WATER FLOW

NOTE: MOCK AIRPLANE, PAD AND STORAGE TANKS HAVE BEEN REMOVED. FUEL LINES WERE ABANDONED IN PLACE.

0 50 100

SCALE IN FEET

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA

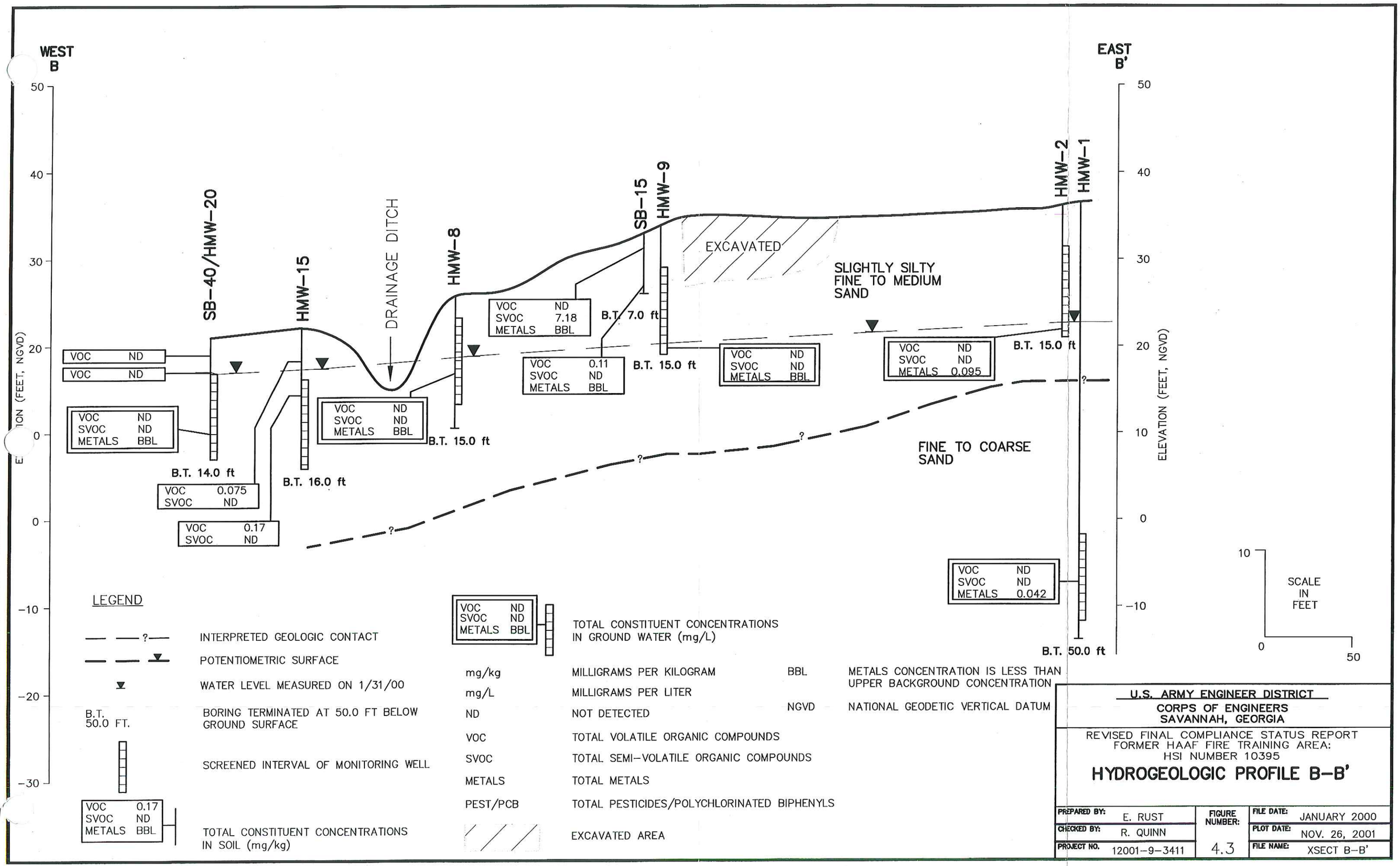
REVISED FINAL COMPLIANCE STATUS REPORT
FORMER HAAF FIRE TRAINING AREA
HSI NUMBER 10395

HYDROGEOLOGIC PROFILE LOCATION MAP

PREPARED BY: T. GLADSTONE	FIGURE NUMBER: 4.1	FILE DATE: JUNE 1999
CHECKED BY: R. QUINN		PLOT DATE: NOV. 13, 2001
PROJECT NO. 12001–9–3411		FILE NAME: Hydro–Prof

J:\Hunt~2001\Hydro–Prof.dwg 02/14/2002 3:08pm ralexand

REPLACE THIS PAGE WITH SCANNED MAP!



LEGEND

— — ?— INTERPRETED GEOLOGIC CONTACT

POTENTIOMETRIC SURFACE

WATER LEVEL MEASURED ON 1/31/00

B.T. 50.0 FT. BORING TERMINATED AT 50.0 FT BELOW GROUND SURFACE

SCREENED INTERVAL OF MONITORING WELL

VOC 0.17
SVOC ND
METALS BBL
TOTAL CONSTITUENT CONCENTRATIONS IN SOIL (mg/kg)

VOC ND
SVOC ND
METALS BBL
TOTAL CONSTITUENT CONCENTRATIONS IN GROUND WATER (mg/L)

mg/kg	MILLIGRAMS PER KILOGRAM	BBL	METALS CONCENTRATION IS LESS THAN UPPER BACKGROUND CONCENTRATION
mg/L	MILLIGRAMS PER LITER		
ND	NOT DETECTED	NGVD	NATIONAL GEODETIC VERTICAL DATUM
VOC	TOTAL VOLATILE ORGANIC COMPOUNDS		
SVOC	TOTAL SEMI-VOLATILE ORGANIC COMPOUNDS		
METALS	TOTAL METALS		
PEST/PCB	TOTAL PESTICIDES/POLYCHLORINATED BIPHENYLS		

EXCAVATED AREA

J:\Hunter\2001\XSECT B-B'.dwg 02/14/2002 3:17pm ralexand

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA

REVISED FINAL COMPLIANCE STATUS REPORT
FORMER HAAF FIRE TRAINING AREA:
HSI NUMBER 10395

HYDROGEOLOGIC PROFILE B-B'

PREPARED BY: E. RUST	FIGURE NUMBER: 4.3	FILE DATE: JANUARY 2000	
CHECKED BY: R. QUINN		PLOT DATE: NOV. 26, 2001	
PROJECT NO. 12001-9-3411		FILE NAME: XSECT B-B'	

WEST
C

EAST
C'

ELEVATION (FEET, NGVD)

50
40
30
20
10
0
−10
−20
−30

SB−39
DRAINAGE DITCH
SB−24 (OFFSET)
SB−23 (OFFSET)
HMW−10
SB−13
SB−06
SB−32

VOC ND
VOC ND

B.T. 10.0 ft

VOC 0.16
SVOC ND
PEST/PCB ND

VOC 0.14
SVOC ND
PEST/PCB ND

B.T. 6.5 ft
B.T. 6.5 ft

VOC ND
SVOC 5.32
PEST/PCB ND

VOC 0.13
SVOC ND
PEST/PCB ND

VOC ND
SVOC 2.29
METALS BBL

VOC 2.8
SVOC ND
METALS BBL

B.T. 14 ft

VOC ND
SVOC ND
METALS BBL

VOC ND
SVOC ND
METALS 33

VOC 0.15
SVOC ND
METALS BBL

VOC 0.036
SVOC ND
METALS BBL

B.T. 10.0 ft

VOC 0.02
SVOC 1.3
METALS BBL

B.T. 10.0 ft

PEST/PCB ND

PEST/PCB ND

SLIGHTLY SILTY
FINE TO
MEDIUM SAND

SLIGHTLY SILTY
FINE TO
MEDIUM SAND

LEGEND

— — ?— INTERPRETED GEOLOGIC CONTACT

POTENTIOMETRIC SURFACE

WATER LEVEL MEASURED ON 1/31/00

B.T.
50.0 FT. BORING TERMINATED AT 50.0 FT BELOW GROUND SURFACE

SCREENED INTERVAL OF MONITORING WELL

VOC 0.16
SVOC ND
METALS ND
PEST/PCB BBL

TOTAL CONSTITUENT CONCENTRATIONS IN SOIL (mg/kg)

VOC 0.15
SVOC ND
METALS BBL

TOTAL CONSTITUENT CONCENTRATIONS IN GROUND WATER (mg/L)

mg/kg	MILLIGRAMS PER KILOGRAM
mg/L	MILLIGRAMS PER LITER
ND	NOT DETECTED
VOC	TOTAL VOLATILE ORGANIC COMPOUNDS
SVOC	TOTAL SEMI−VOLATILE ORGANIC COMPOUNDS
METALS	TOTAL METALS
PEST/PCB	PESTICIDES/POLYCHLORINATED BIPHENYLS
BBL	METALS CONCENTRATION IS LESS THAN UPPER BACKGROUND CONCENTRATION
NGVD	NATIONAL GEODETIC VERTICAL DATUM

10
SCALE
IN
FEET
0
50

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA

REVISED FINAL COMPLIANCE STATUS REPORT
FORMER HAAF FIRE TRAINING AREA:
HSI NUMBER 10395

HYDROGEOLOGIC PROFILE C−C'

PREPARED BY: E.RUST/C.ESTES	FIGURE NUMBER:	FILE DATE:	JANUARY 2000
CHECKED BY: R. QUINN		PLOT DATE:	NOV. 26, 2001
PROJECT NO. 12001−9−3411	4.4	FILE NAME:	XSECT C−C'

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REPLACE THIS PAGE WITH SCANNED MAP!

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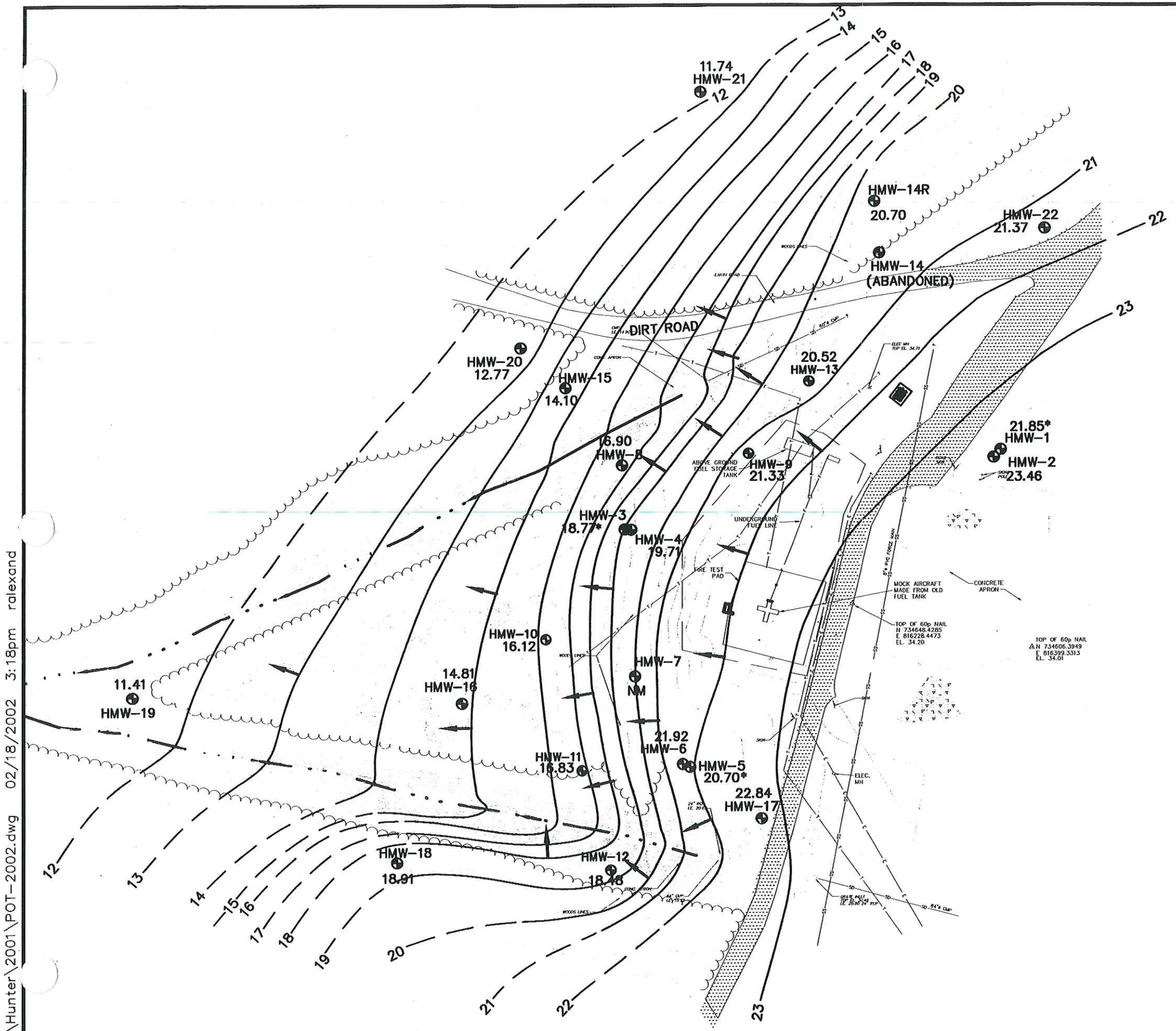

N

LEGEND:

HMW-1	ESE MONITORING WELL (1990,1992)
HMW-10	LAW MONITORING WELL (1995, 1999, 2000 AND 2001)
	EXISTING CONTOUR
	TREE LINE
	LIMITS OF EXCAVATION (GEOSCIENCE, 1999)
NM	NOT MEASURED
22.05	GROUNDWATER ELEVATION IN FEET, NGVD ON NOVEMBER 6, 2001.
—20—	POTENTIOMETRIC SURFACE CONTOUR IN FEET, NGVD
	INTERPRETED GROUNDWATER FLOW DIRECTION
*	ELEVATION NOT USED IN THE CALCULATION OF POTENTIOMETRIC CONTOURS
	DRAINAGE DITCH WITH DIRECTION OF SURFACE WATER FLOW

NOTE:

MOCK AIRPLANE, PAD, AND STORAGE TANKS HAVE BEEN REMOVED. FUEL LINES WERE ABANDONED IN PLACE.

0 100 200

SCALE IN FEET

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA

REVISED FINAL COMPLIANCE STATUS REPORT
FORMER HAAF FIRE TRAINING AREA:
HSI NUMBER 10395

POTENTIOMETRIC SURFACE MAP ON NOVEMBER 6, 2001

PREPARED BY:	J. MARTIN	FIGURE NUMBER: 4.7	FILE DATE: JUNE 1999
CHECKED BY:	R. QUINN		PLOT DATE: NOV. 20, 2001
PROJECT NO.	12001-9-3411		FILE NAME: POT

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APPENDIX A

Summary of Chemical Analyses from Previous Investigations

APPENDIX A

TABLE OF CONTENTS

		PAGE NO.
TABLE A-1	1987 RESULTS OF SOIL SAMPLING, ESE	A-2
TABLE A-2	1990 RESULTS OF SOIL AND SEDIMENT SAMPING, ESE	A-3
TABLE A-3	1990 RESULTS OF GROUND-WATER SAMPLING, ESE	A-12
TABLE A-4	1992 RESULTS OF SOIL AND SEDIMENT SAMPLING, ESE	A-16
TABLE A-5	1992 RESULTS OF GROUND-WATER SAMPLING, ESE	A-28
TABLE A-6	1995 ANALYTICAL DATA SUMMARY TABLE SURFACE SOIL SAMPLES, LAW	A-31
TABLE A-7	1995 ANALYTICAL DATA SUMMARY TABLE SUBSURFACE SOIL SAMPLES, LAW	A-43
TABLE A-8	1995 ANALYTICAL DATA SUMMARY TABLE GROUND-WATER SAMPLES, LAW	A-61
TABLE A-9	1998 RESULTS OF GROUND-WATER LONG TERM MONITORING SAMPLES, M&E	A-71
TABLE A-10	1999 RESULTS OF GROUND-WATER LONG TERM MONITORING SAMPLES, M&E	A-73
TABLE A-11	1999 DATA SUMMARY GROUND-WATER LONG TERM MONITORING SAMPLES, SAIC	A-75

TABLE A-1
1987 RESULTS OF SOIL SAMPLING
Environmental Science and
Engineering, Inc.

TABLE A-2
1990 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS	Sample ID / Sample Depth / Date / Time / UNITS	SOIL							SEDIMENT					
		HSB-1	HSB-2	HSB-3	HSB-4	HSB-5	HSB-6	TRPBLK	SD-1	SD-2	SD-3	SD-3DUP	TRPBLK	RINSEBLK
		8-10 FT.	3-5 FT.	6-8 FT.	2-4 FT.	5-8 FT.	8-10 FT.							
		02/12/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90
		17:05	07:45	08:35	09:35	11:35	12:45	12:00	09:00	09:20	09:30	09:30	10:30	10:45
%MOISTURE	%WET WT	5.00	12.40	16.20	14.00	21.60	16.30	NRQ	13.90	26.20	19.70	19.80	NRQ	NRQ
1,1,1-TRICHL'ETHANE	UG/KG-DRY	<1.40	<1.50	<200.00	<1.60	<2100.00	<1.60	NRQ	<1.50	<1.80	<1.60	<1.60	NRQ	NRQ
1,1,1-TRICHL'ETHANE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.60	NRQ	NRQ	NRQ	NRQ	<1.60	<1.60
1,1,2,2-TETRACHLORO ETHANE	UG/KG-DRY	<1.60	<1.70	<230.00	<1.80	<2400.00	<1.80	NRQ	<1.70	<2.10	<1.90	<1.90	NRQ	NRQ
1,1,2,2-TETRACHLORO ETHANE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.50	NRQ	NRQ	NRQ	NRQ	<1.50	<1.50
1,1,2-TRICHL'ETHANE	UG/KG-DRY	<1.70	<1.80	<240.00	<1.90	<2500.00	<1.90	NRQ	<1.80	<2.20	<2.00	<2.00	NRQ	NRQ
1,1,2-TRICHL'ETHANE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<0.87	NRQ	NRQ	NRQ	NRQ	<0.87	<0.87
1,1-DICHLOROETHANE	UG/KG-DRY	<0.90	<0.97	<130.00	<1.00	<1400.00	<1.00	NRQ	<0.98	<1.20	<1.00	<1.00	NRQ	NRQ
1,1-DICHLOROETHANE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<0.85	NRQ	NRQ	NRQ	NRQ	<0.85	<0.85
1,1-DICHLOROETHENE	UG/G-DRY	<1.30	<1.40	<180.00	<1.40	<1900.00	<1.40	NRQ	<1.40	<1.60	<1.50	<1.50	NRQ	NRQ
1,1-DICHLOROETHYLENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.20	NRQ	NRQ	NRQ	NRQ	<1.20	<1.20
1,2-DICHLOROETHANE	UG/KG-DRY	<0.92	<1.00	<130.00	<1.00	<1400.00	<1.00	NRQ	<1.00	<1.20	<1.10	<1.10	NRQ	NRQ
1,2-DICHLOROETHANE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<0.87	NRQ	NRQ	NRQ	NRQ	<0.87	<0.87
1,2-DICHLOROETHANE-D4	UG/KG-DRY	58.00	60.00	54.00	61.00	48.00	62.00	NRQ	59.00	72.00	59.00	58.00	NRQ	NRQ
1,2-DICHLOROETHANE-D4 (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	47.00
1,2-DICHLOROETHENE, TOTAL	UG/KG-DRY	<1.37	<1.49	<196.00	<1.53	<2070.00	<1.54	NRQ	<1.49	<1.76	<1.60	<1.60	NRQ	NRQ

TABLE A-2

1990 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS	Sample ID / Sample Depth / Date / Time / UNITS	SOIL							SEDIMENT					
		HSB-1	HSB-2	HSB-3	HSB-4	HSB-5	HSB-6	TRPBLK	SD-1	SD-2	SD-3	SD-3DUP	TRPBLK	RINSEBLK
		8-10 FT.	3-5 FT.	6-8 FT.	2-4 FT.	5-8 FT.	8-10 FT.							
		02/12/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90
	UNITS	17:05	07:45	08:35	09:35	11:35	12:45	12:00	09:00	09:20	09:30	09:30	10:30	10:45
1,2-DICHLOROETHENE, TOTAL (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.30	NRQ	NRQ	NRQ	NRQ	<1.30	<1.30
1,2-DICHLOROPROPANE	UG/KG-DRY	<1.00	<1.10	<140.00	<1.10	<1500.00	<1.10	NRQ	<1.10	<1.30	<1.20	<1.20	NRQ	NRQ
1,2-DICHLOROPROPANE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<0.97	NRQ	NRQ	NRQ	NRQ	<0.97	<0.97
2,4,6-TRIBROMOPHENOL	MG/KG-DRY	6750.00	7620.00	9150.00	8940.00	9730.00	8490.00	NRQ	7200.00	7820.00	7370.00	1530.00	NRQ	NRQ
2,4,6-TRIBROMOPHENOL (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	120.00
2-BUTANONE	UG/KG-DRY	<9.96	<10.80	<1410.00	<11.10	15100.00	<11.20	NRQ	<10.90	<12.80	<11.60	<11.70	NRQ	NRQ
2-BUTANONE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<9.44	NRQ	NRQ	NRQ	NRQ	<9.44	<9.44
2-FLUORBIPHENYL (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	75.00
2-FLUOROBIPHENYL	UG/KG-DRY	3300.00	3880.00	4510.00	4250.00	4490.00	3640.00	NRQ	4030.00	3990.00	4460.00	4530.00	NRQ	NRQ
2-FLUOROPHENOL	UG/KG-DRY	8940.00	9410.00	10200.00	10600.00	10400.00	10300.00	NRQ	8610.00	10000.00	9870.00	9500.00	NRQ	NRQ
2-FLUOROPHENOL (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	110.00
2-HEXANONE	UG/KG-DRY	<3.30	<3.60	<470.00	<3.70	<5000.00	<3.70	NRQ	<3.60	<4.20	<3.90	<3.90	NRQ	NRQ
2-HEXANONE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<3.10	NRQ	NRQ	NRQ	NRQ	<3.10	<3.10
4-METHYL-2-PENTANONE	UG/KG-DRY	<2.83	<3.07	<400.00	<3.15	<4270.00	<3.17	NRQ	<3.08	<3.63	<3.30	<3.31	NRQ	NRQ
4-METHYL-2-PENTANONE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<3.00	NRQ	NRQ	NRQ	NRQ	<3.00	<3.00
ACENAPHTHENE	UG/KG-DRY	<130.00	300.00	<150.00	<150.00	<160.00	<150.00	NRQ	1100.00	<170.00	<1600.00	4900.00	NRQ	NRQ

A

TABLE A-2

1990 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS	Sample ID / Sample Depth / Date / Time / UNITS	SOIL							SEDIMENT					
		HSB-1	HSB-2	HSB-3	HSB-4	HSB-5	HSB-6	TRPBLK	SD-1	SD-2	SD-3	SD-3DUP	TRPBLK	RINSEBLK
		8-10 FT.	3-5 FT.	6-8 FT.	2-4 FT.	5-8 FT.	8-10 FT.							
		02/12/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90
	UNITS	17:05	07:45	08:35	09:35	11:35	12:45	12:00	09:00	09:20	09:30	09:30	10:30	10:45
ACENAPHTHENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<3.80
ACENAPHTHYLENE	UG/KG-DRY	<96.00	400.00	<110.00	<110.00	<120.00	<110.00	NRQ	<530.00	<120.00	3100.00	2000.00	NRQ	NRQ
ACENAPHTHYLENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<2.70
ACETONE	UG/KG-DRY	<18.00	<19.00	<2500.00	<20.00	27000.00	<20.00	NRQ	40.00	110.00	120.00	<21.00	NRQ	NRQ
ACETONE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<17.00	NRQ	NRQ	NRQ	NRQ	<17.00	<17.00
ANTHRACENE	UG/KG-DRY	<75.00	1300.00	<85.00	<83.00	<91.00	<85.00	NRQ	3000.00	<97.00	8200.00	9300.00	NRQ	NRQ
ANTHRACENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<2.10
ARSENIC,SED	MG/KG-DRY	<0.48	<0.52	<0.54	0.65	0.85	<0.55	NRQ	<0.53	0.76	<0.57	<0.57	NRQ	NRQ
ARSENIC,TOTAL (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<2.30
BARIUM,SED	MG/KG-DRY	3.83	5.97	6.21	4.44	15.40	11.20	NRQ	19.80	8.46	13.40	229.00	NRQ	NRQ
BARIUM,TOTAL (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.70
BENZENE	UG/KG-DRY	<1.20	<1.30	<170.00	<1.30	<1800.00	<1.30	NRQ	<1.30	<1.50	15.00	31.00	NRQ	NRQ
BENZENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.10	NRQ	NRQ	NRQ	NRQ	<1.10	<1.10
BENZO(A)ANTHRACENE	UG/KG-DRY	<62.00	4900.00	<70.00	<68.00	<75.00	<70.00	NRQ	13000.00	<79.00	26000.00	33000.00	NRQ	NRQ
BENZO(A)ANTHRACENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.80
BENZO(A)PYRENE	UG/KG-DRY	<180.00	3400.00	<210.00	<200.00	<220.00	<210.00	NRQ	9200.00	<230.00	18000.00	27000.00	NRQ	NRQ

TABLE A-2
1990 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS	Sample ID / Sample Depth / Date / Time / UNITS	SOIL							SEDIMENT					
	Sample ID	HSB-1	HSB-2	HSB-3	HSB-4	HSB-5	HSB-6	TRPBLK	SD-1	SD-2	SD-3	SD-3DUP	TRPBLK	RINSEBLK
	Sample Depth	8-10 FT.	3-5 FT.	6-8 FT.	2-4 FT.	5-8 FT.	8-10 FT.							
	Date	02/12/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90
	Time	17:05	07:45	08:35	09:35	11:35	12:45	12:00	09:00	09:20	09:30	09:30	10:30	10:45
BENZO(A)PYRENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<5.20
BENZO(B)FLUORANTHENE	UG/KG-DRY	<130.00	5000.00	<150.00	<150.00	<160.00	<150.00	NRQ	16000.00	<170.00	21000.00	27000.00	NRQ	NRQ
BENZO(B)FLUORANTHENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<3.80
BENZO(GHI)PERYLENE	UG/KG-DRY	<74.00	2200.00	<84.00	<81.00	<89.00	<84.00	NRQ	6200.00	<95.00	13000.00	17000.00	NRQ	NRQ
BENZO(GHI)PERYLENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<2.10
BENZO(K)FLUORANTHENE	UG/KG-DRY	<170.00	2500.00	<190.00	<180.00	<200.00	<190.00	NRQ	7200.00	<210.00	17000.00	29000.00	NRQ	NRQ
BENZO(K)FLUORANTHENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<4.70
BROMODICHLOROMETHANE	UG/KG-DRY	<1.00	<1.10	<150.00	<1.20	<1600.00	<1.20	NRQ	<1.10	<1.30	<1.20	<1.20	NRQ	NRQ
BROMODICHLOROMETHANE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<0.98	NRQ	NRQ	NRQ	NRQ	<0.98	<0.98
BROMOFLUOROBENZENE	UG/KG-DRY	52.00	46.00	62.00	50.00	54.00	50.00	NRQ	54.00	61.00	67.00	65.00	NRQ	NRQ
BROMOFLUOROBENZENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	45.00
BROMOFORM	UG/KG-DRY	<2.60	<2.80	<370.00	<2.90	<3900.00	<2.90	NRQ	<2.80	<3.30	<3.00	<3.00	NRQ	NRQ
BROMOFORM (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<2.50	NRQ	NRQ	NRQ	NRQ	<2.50	<2.50
BROMOMETHANE	UG/KG-DRY	<1.20	<1.30	<170.00	<1.40	<1900.00	<1.40	NRQ	<1.30	<1.60	<1.40	<1.40	NRQ	NRQ
BROMOMETHANE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.20	NRQ	NRQ	NRQ	NRQ	<1.20	<1.20
CADMIUM,SED	MG/KG-DRY	<0.37	<0.40	<0.42	<0.41	<0.45	<0.42	NRQ	<0.41	<0.47	<0.44	<0.44	NRQ	NRQ

TABLE A-2
1990 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS	Sample ID / Sample Depth / Date / Time / UNITS	SOIL							SEDIMENT					
		HSB-1	HSB-2	HSB-3	HSB-4	HSB-5	HSB-6	TRPBLK	SD-1	SD-2	SD-3	SD-3DUP	TRPBLK	RINSEBLK
		8-10 FT.	3-5 FT.	6-8 FT.	2-4 FT.	5-8 FT.	8-10 FT.							
		02/12/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90
	UNITS	17:05	07:45	08:35	09:35	11:35	12:45	12:00	09:00	09:20	09:30	09:30	10:30	10:45
CADMIUM,TOTAL (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<3.50
CARBON DISULFIDE	UG/KG-DRY	<3.30	<3.60	<460.00	<3.70	<5000.00	<3.70	NRQ	<3.60	23.00	<3.80	<3.80	NRQ	NRQ
CARBON DISULFIDE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<3.10	NRQ	NRQ	NRQ	NRQ	<3.10	<3.10
CARBON TETRACHLORIDE	UG/KG-DRY	<1.00	<1.10	<140.00	<1.10	<1500.00	<1.10	NRQ	<1.10	<1.30	<1.20	<1.20	NRQ	NRQ
CARBON TETRACHLORIDE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<0.97	NRQ	NRQ	NRQ	NRQ	<0.97	<0.97
CHLOROBENZENE	UG/KG-DRY	<0.69	<0.74	<97.00	<0.76	<1000.00	<0.77	NRQ	<0.75	<0.88	<0.80	<0.80	NRQ	NRQ
CHLOROBENZENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<0.65	NRQ	NRQ	NRQ	NRQ	<0.65	<0.65
CHLOROETHANE	UG/KG-DRY	<1.80	<2.00	<260.00	<2.10	<2800.00	<2.10	NRQ	<2.00	<2.40	<2.20	<2.20	NRQ	NRQ
CHLOROETHANE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.80	NRQ	NRQ	NRQ	NRQ	<1.80	<1.80
CHLOROFORM	UG/KG-DRY	<1.20	<1.30	<180.00	<1.40	<1900.00	<1.40	NRQ	<1.40	<1.60	<1.50	<1.50	NRQ	NRQ
CHLOROFORM (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.20	NRQ	NRQ	NRQ	NRQ	<1.20	<1.20
CHLOROMETHANE	UG/KG-DRY	<26.00	<28.00	<3600.00	<28.00	39000.00	<29.00	NRQ	<28.00	<33.00	<30.00	<30.00	NRQ	NRQ
CHLOROMETHANE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<24.00	NRQ	NRQ	NRQ	NRQ	<24.00	<24.00
CHROMIUM,SED	MG/KG-DRY	0.78	3.49	3.85	5.87	1.93	2.39	NRQ	3.38	2.20	69.70	52.00	NRQ	NRQ
CHROMIUM,TOTAL (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<7.00
CHRYSENE	UG/KG-DRY	<97.00	5100.00	<110.00	<110.00	<120.00	<110.00	NRQ	22000.00	<120.00	40000.00	52000.00	NRQ	NRQ

TABLE A-2
1990 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS	Sample ID / Sample Depth / Date / Time	SOIL							SEDIMENT					
	UNITS	HSB-1	HSB-2	HSB-3	HSB-4	HSB-5	HSB-6	TRPBLK	SD-1	SD-2	SD-3	SD-3DUP	TRPBLK	RINSEBLK
		8-10 FT.	3-5 FT.	6-8 FT.	2-4 FT.	5-8 FT.	8-10 FT.							
		02/12/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90
		17:05	07:45	08:35	09:35	11:35	12:45	12:00	09:00	09:20	09:30	09:30	10:30	10:45
CHRYSENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<2.80
CIS-1,3-DICHLOROPROPENE	UG/KG-DRY	<1.60	<1.80	<230.00	<1.80	<2400.00	<1.80	NRQ	<1.80	<2.10	<1.90	<1.90	NRQ	NRQ
CIS-1,3-DICHLOROPROPENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.50	NRQ	NRQ	NRQ	NRQ	<1.50	<1.50
DIBEN'(A,H)ANTH'CENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.80
DIBEN(A,H)ANTHRACENE	UG/KG-DRY	<63.00	1100.00	<72.00	<70.00	<77.00	<72.00	NRQ	4200.00	<81.00	8100.00	11000.00	NRQ	NRQ
DIBROMOCHLOROMETHANE	UG/KG-DRY	<1.40	<1.50	<200.00	<1.50	<2100.00	<1.50	NRQ	<1.50	<1.80	<1.60	<1.60	NRQ	NRQ
DIBROMOCHLOROMETHANE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.30	NRQ	NRQ	NRQ	NRQ	<1.30	<1.30
ETHYLBENZENE	UG/KG-DRY	<1.10	<1.10	1500.00	<1.20	10000.00	<1.20	NRQ	<1.10	<1.40	<1.20	<1.20	NRQ	NRQ
ETHYLBENZENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.00	NRQ	NRQ	NRQ	NRQ	<1.00	<1.00
FLUORANTHENE	UG/KG-DRY	<110.00	13000.00	140.00	<130.00	360.00	<130.00	NRQ	36000.00	<150.00	54000.00	62000.00	NRQ	NRQ
FLUORANTHENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<3.20
FLUORENE	UG/KG-DRY	<110.00	720.00	<120.00	<120.00	<130.00	<120.00	NRQ	1500.00	<140.00	2500.00	8300.00	NRQ	NRQ
FLUORENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<3.10
INDENO(1,2,3-CD)PYRENE	UG/KG-DRY	<95.00	2900.00	<110.00	<110.00	<120.00	<110.00	NRQ	7900.00	<120.00	15000.00	23000.00	NRQ	NRQ
INDENO(1,2,3-CD)PYRENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<2.70
LEAD,SED	MG/KG-DRY	<5.26	<5.71	<5.97	<5.81	7.40	<5.97	NRQ	7.65	7.71	275.00	362.00	NRQ	NRQ

TABLE A-2
1990 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS	Sample ID / Sample Depth / Date / Time / UNITS	SOIL							SEDIMENT					
		HSB-1	HSB-2	HSB-3	HSB-4	HSB-5	HSB-6	TRPBLK	SD-1	SD-2	SD-3	SD-3DUP	TRPBLK	RINSEBLK
		8-10 FT.	3-5 FT.	6-8 FT.	2-4 FT.	5-8 FT.	8-10 FT.							
		02/12/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90
	UNITS	17:05	07:45	08:35	09:35	11:35	12:45	12:00	09:00	09:20	09:30	09:30	10:30	10:45
LEAD,TOTAL (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<25.00
MERCURY,SED	MG/KG-DRY	<0.10	<0.11	<0.11	<0.11	<0.12	<0.12	NRQ	<0.11	<0.13	<0.12	<0.12	NRQ	NRQ
MERCURY,TOTAL (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<0.20
METHYLENE CHLORIDE	UG/KG-DRY	<1.70	<1.80	<240.00	<1.90	<2600.00	6.70	NRQ	7.00	12.00	<2.00	<2.00	NRQ	NRQ
METHYLENE CHLORIDE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	2.60	NRQ	NRQ	NRQ	NRQ	<1.60	<1.60
NAPHTHALENE	UG/KG-DRY	<210.00	<230.00	5700.00	<230.00	11000.00	<240.00	NRQ	<230.00	<270.00	<250.00	390.00	NRQ	NRQ
NAPHTHALENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<5.90
NITROBENZENE-D(5)	UG/KG-DRY	3670.00	3910.00	4180.00	4130.00	3740.00	4060.00	NRQ	3790.00	4310.00	4270.00	4070.00	NRQ	NRQ
NITROBENZENE-D(5) (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	87.00
PHENANTHRENE	UG/KG-DRY	<67.00	8100.00	150.00	<74.00	290.00	<76.00	NRQ	20000.00	<87.00	33000.00	62000.00	NRQ	NRQ
PHENANTHRENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.90
PHENOL-D(5)	UG/KG-DRY	9640.00	9660.00	10800.00	10000.00	11000.00	10700.00	NRQ	7980.00	9510.00	8650.00	8780.00	NRQ	NRQ
PHENOL-D(5) (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	77.00
PYRENE	UG/KG-DRY	<72.00	9700.00	140.00	<79.00	340.00	<81.00	NRQ	27000.00	<92.00	43000.00	58000.00	NRQ	NRQ
PYRENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<2.00
SELENIUM,SED	MG/KG-DRY	<0.42	<0.45	<0.47	<0.46	0.67	<0.47	NRQ	<0.46	<0.54	<0.49	<0.49	NRQ	NRQ

TABLE A-2
1990 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS	Sample ID / Sample Depth / Date / Time / UNITS	SOIL							SEDIMENT					
		HSB-1	HSB-2	HSB-3	HSB-4	HSB-5	HSB-6	TRPBLK	SD-1	SD-2	SD-3	SD-3DUP	TRPBLK	RINSEBLK
		8-10 FT.	3-5 FT.	6-8 FT.	2-4 FT.	5-8 FT.	8-10 FT.							
		02/12/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90
	UNITS	17:05	07:45	08:35	09:35	11:35	12:45	12:00	09:00	09:20	09:30	09:30	10:30	10:45
SELENIUM,TOTAL (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<2.00
SILVER,SED	MG/KG-DRY	<0.60	<0.65	<0.68	<0.66	<0.73	<0.68	NRQ	<0.66	<0.77	<0.71	<0.71	NRQ	NRQ
SILVER,TOTAL (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<5.70
STYRENE	UG/KG-DRY	<1.70	<1.80	<240.00	<1.90	<2500.00	<1.90	NRQ	<1.80	<2.20	<2.00	<2.00	NRQ	NRQ
STYRENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.60	NRQ	NRQ	NRQ	NRQ	<1.60	<1.60
TERPHENYL-(D14)	MG/KG-DRY	5880.00	5940.00	4000.00	10600.00	5450.00	5260.00	NRQ	5430.00	4240.00	4890.00	4850.00	NRQ	NRQ
TERPHENYL-(D14) (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	73.00
TETRACHLOROETHENE	UG/KG-DRY	<0.54	<0.58	<76.00	<0.60	<810.00	<0.60	NRQ	<0.59	<0.69	<0.63	<0.63	NRQ	NRQ
TETRACHLOROETHENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<0.51	NRQ	NRQ	NRQ	NRQ	<0.51	<0.51
TOLUENE	UG/KG-DRY	2.80	2.90	<100.00	<0.82	<1100.00	5.50	NRQ	<0.81	3.20	<0.86	<0.86	NRQ	NRQ
TOLUENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<0.70	NRQ	NRQ	NRQ	NRQ	<0.70	<0.70
TOLUENE-D(8) (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	51.00
TOLUENE-D8	UG/KG-DRY	59.00	66.00	61.00	66.00	55.00	67.00	NRQ	63.00	73.00	68.00	54.00	NRQ	NRQ
TRANS-1,3-DICHLOROPROPENE	UG/KG-DRY	<0.91	<0.98	<130.00	<1.00	<1400.00	<1.00	NRQ	<0.99	<1.20	<1.10	<1.10	NRQ	NRQ
TRANS-1,3-DICHLOROPROPENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<0.86	NRQ	NRQ	NRQ	NRQ	<0.86	<0.86
TRICHLOROETHENE	UG/KG-DRY	<0.92	<1.00	<130.00	<1.00	<1400.00	<1.00	NRQ	<1.00	<1.20	<1.10	<1.10	NRQ	NRQ

TABLE A-2

1990 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS	Sample ID / Sample Depth / Date / Time / UNITS	SOIL							SEDIMENT					
	Sample ID	HSB-1	HSB-2	HSB-3	HSB-4	HSB-5	HSB-6	TRPBLK	SD-1	SD-2	SD-3	SD-3DUP	TRPBLK	RINSEBLK
	Sample Depth	8-10 FT.	3-5 FT.	6-8 FT.	2-4 FT.	5-8 FT.	8-10 FT.							
	Date	02/12/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/13/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90	02/12/90
	Time	17:05	07:45	08:35	09:35	11:35	12:45	12:00	09:00	09:20	09:30	09:30	10:30	10:45
TRICHLOROETHENE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<0.87	NRQ	NRQ	NRQ	NRQ	<0.87	<0.87
VINYL ACETATE	UG/KG-DRY	<2.70	<2.90	<380.00	<3.00	<4100.00	<3.00	NRQ	<3.00	<3.50	<3.20	<3.20	NRQ	NRQ
VINYL ACETATE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<2.60	NRQ	NRQ	NRQ	NRQ	<2.60	<2.60
VINYL CHLORIDE	UG/KG-DRY	<1.60	<1.80	<230.00	<1.80	<2500.00	<1.80	NRQ	<1.80	<2.10	<1.90	<1.90	NRQ	NRQ
VINYL CHLORIDE (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.60	NRQ	NRQ	NRQ	NRQ	<1.60	<1.60
XYLENE,SED	UG/KG-DRY	<1.10	<1.20	<150.00	<1.20	57000.00	<1.20	NRQ	<1.20	<1.40	2.40	<1.30	NRQ	NRQ
XYLENES,TOTAL (EPTOX)	UG/L	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	<1.00	NRQ	NRQ	NRQ	NRQ	<1.00	<1.00

TABLE A-2
1990 RESULTS OF SOIL AND SEDIMENT SAMPLING
Environmental Science and
Engineering, Inc.

TABLE A-1
1987 RESULTS OF SOIL SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS / UNITS	Sample ID	BH-10		BH-11		BH-12		BH-13			QA ALCOHOL	QA WASH
	Sample Depth	0-1 FT.	7.5-8.5 FT.	0-1 FT.	7.5-8.5 FT.	0-1 FT.	6.5-7.5 FT.		0-1 FT.	6.0-7.5 FT.		
2 METHYLNAPHTHALENE	UG/KG	<1.00	19000.00	<1.00	12000.00	<1.00	10000.00	<2.00	<1.00	<1.00	<1.00	<1.00
ARSENIC	UG/G	5.99	2.00	13.90	3.88	4.00	<1.96	11.98	7.75	3.94	<1.96	<1.96
BARIUM	UG/G	64.40	9.19	33.50	18.10	7.19	8.12	27.10	19.80	8.28	<0.01	<0.01
BIS (2 ETHYLHEXYL) PHTHALATE	UG/KG	<1.00	1.70	<1.00	900.00	<1.00	300.00	<3.00	<1.00	NRQ	<1.00	<1.00
CADMIUM	UG/G	<1.98	<1.98	1.99	<1.98	<1.98	<1.98	0.02	3.87	<1.98	<1.98	<1.98
CHROMIUM	UG/G	12.80	<3.96	4.16	<3.96	5.19	<3.96	2.84	9.10	<3.96	<3.96	<3.96
DI-N-LATEBUTYLPHTHALATE	UG/KG	<1.00	1300.00	<1.00	600.00	<1.00	2400.00	<2.00	<1.00	<1.00	<1.00	<1.00
DIETHYLPHTHALATE	UG/KG	<1.00	<1.00	<1.00	<1.00	<1.00	200.00	<2.00	<1.00	<1.00	<1.00	<1.00
FLUORENE	UG/KG	<1.00	400.00	<1.00	<1.00	<1.00	200.00	<3.00	<1.00	NRQ	<1.00	<1.00
LEAD	UG/G	645.00	35.90	1163.70	NRQ	102.00	19.30	1179.80	1185.00	13.80	<1.98	<1.98
MERCURY	UG/G	0.40	0.39	0.38	0.38	0.40	0.38	0.79	0.38	0.39	<0.04	<0.04
NAPHTHALENE	UG/KG	<1.00	10000.00	<1.00	7000.00	<1.00	5800.00	<2.00	<1.00	<1.00	<1.00	<1.00
PHENANTHRENE	UG/KG	<1.00	900.00	<1.00	<1.00	<1.00	200.00	<3.00	<1.00	NRQ	<1.00	<1.00
SELENIUM	UG/G	<0.20	<0.20	<0.20	<0.20	0.79	0.60	0.22	0.33	<0.20	<0.20	<0.20
SILVER	UG/G	<3.99	<3.99	<3.99	<3.99	<3.99	<3.99	<7.98	<3.99	<3.99	<3.99	<3.99

Source: ESE, 1993

TABLE A-3
1990 RESULTS OF GROUND-WATER SAMPLING
Environmental Science and
Engineering, Inc.

TABLE A-3

1990 RESULTS OF GROUND-WATER SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS	Sample ID	HMW-1	HMW-2	HMW-3	HMW-4	HMW-5	HMW-6
	Date	03/07/90	03/07/90	03/08/90	03/08/90	03/08/90	03/08/90
	Time	16:55	10:20	09:20	09:35	10:35	11:10
1,1,1-TRICHL'ETHANE	UG/L	<1.30	<1.30	<1.30	<1.30	<1.30	<1.30
1,1,2,2-TETRACHLORO ETHANE	UG/L	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
1,1,2-TRICHL'ETHANE	UG/L	<1.60	<1.60	<1.60	<1.60	<1.60	<1.60
1,1-DICHLOROETHANE	UG/L	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85
1,1-DICHLOROETHYLENE	UG/L	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
1,2-DICHLOROETHANE	UG/L	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87
1,2-DICHLOROETHANE-D4	UG/L	49.00	55.00	46.00	47.00	46.00	46.00
1,2-DICHLOROETHENE, TOTAL	UG/L	<1.30	<1.30	<1.30	<1.30	<1.30	<1.30
1,2-DICHLOROPROPANE	UG/L	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97
2,4,6-TRIBROMOPHENOL	UG/L	180.00	170.00	190.00	180.00	160.00	180.00
2-BUTANONE	UG/L	<9.44	<9.44	<9.44	<9.44	<9.44	<9.44
2-FLUORBIPHENYL	UG/L	66.00	74.00	66.00	69.00	76.00	79.00
2-FLUOROPHENOL	UG/L	180.00	160.00	150.00	170.00	150.00	170.00
2-HEXANONE	UG/L	<3.10	<3.10	<3.10	<3.10	<3.10	<3.10
4-METHYL-2-PENTANONE	UG/L	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
ACENAPHTHENE	UG/L	<3.80	<3.80	<3.80	<3.80	<3.80	<3.80
ACENAPHTHYLENE	UG/L	<2.70	<2.70	<2.70	<2.70	<2.70	<2.70
ACETONE	UG/L	<17.00	<17.00	<17.00	<17.00	<17.00	<17.00
ANTHRACENE	UG/L	<2.10	<2.10	<2.10	<2.10	<2.10	<2.10
ARSENIC,TOTAL	UG/L	3.10	51.60	2.40	8.50	8.90	77.30
BARIUM,TOTAL	UG/L	59.20	1000.00	36.80	166.00	104.00	864.00
BENZENE	UG/L	<1.10	<1.10	7.80	1.90	<1.10	44.00

TABLE A-3

1990 RESULTS OF GROUND-WATER SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS	Sample ID	HMW-1	HMW-2	HMW-3	HMW-4	HMW-5	HMW-6
	Date	03/07/90	03/07/90	03/08/90	03/08/90	03/08/90	03/08/90
	Time	16:55	10:20	09:20	09:35	10:35	11:10
BENZO(A)ANTHRACENE	UG/L	<1.80	<1.80	<1.80	<1.80	<1.80	3.20
BENZO(A)PYRENE	UG/L	<5.20	<5.20	<5.20	<5.20	<5.20	<5.20
BENZO(B)FLUORANTHENE	UG/L	<3.80	<3.80	<3.80	<3.80	<3.80	7.00
BENZO(GHI)PERYLENE	UG/L	<2.10	<2.10	<2.10	<2.10	<2.10	2.30
BENZO(K)FLUORANTHENE	UG/L	<4.70	<4.70	<4.70	<4.70	<4.70	<4.70
BROMODICHLOROMETHANE	UG/L	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98
BROMOFLUOROBENZENE	UG/L	49.00	52.00	52.00	53.00	50.00	47.00
BROMOFORM	UG/L	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50
BROMOMETHANE	UG/L	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
CADMIUM,TOTAL	UG/L	<3.50	<3.50	<3.50	<3.50	<3.50	3.96
CARBON DISULFIDE	UG/L	<3.10	<3.10	<3.10	<3.10	<3.10	<3.10
CARBON TETRACHLORIDE	UG/L	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97
CHLOROBENZENE	UG/L	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65
CHLOROETHANE	UG/L	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80
CHLOROFORM	UG/L	<1.20	<1.20	<1.20	<1.20	<1.20	<1.20
CHLOROMETHANE	UG/L	<24.00	<24.00	<24.00	<24.00	<24.00	<24.00
CHROMIUM,TOTAL	UG/L	11.20	217.00	12.00	46.70	46.80	239.00
CHRYSENE	UG/L	<2.80	<2.80	<2.80	<2.80	<2.80	5.30
CIS-1,3-DICHLOROPROPENE	UG/L	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
DIBEN'(A,H)ANTH'CENE	UG/L	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80
DIBROMOCHLOROMETHANE	UG/L	<1.30	<1.30	<1.30	<1.30	<1.30	<1.30
ETHYLBENZENE	UG/L	<1.00	<1.00	<1.00	<1.00	<1.00	120.00

TABLE A-4
1992 RESULTS OF SOIL AND SEDIMENT SAMPLING
Environmental Science and
Engineering, Inc.

TABLE A-3
1990 RESULTS OF GROUND-WATER SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS	Sample ID	MMW-1	MMW-2	MMW-3	MMW-4	MMW-5	MMW-6
	Date	03/07/90	03/07/90	03/08/90	03/08/90	03/08/90	03/08/90
	Time	16:55	10:20	09:20	09:35	10:35	11:10
FLUORANTHENE	UG/L	<3.20	<3.20	<3.20	<3.20	<3.20	7.30
FLUORENE	UG/L	<3.10	<3.10	<3.10	<3.10	<3.10	<3.10
INDENO(1,2,3-CD)PYRENE	UG/L	<2.70	<2.70	<2.70	<2.70	<2.70	<2.70
LEAD,TOTAL	UG/L	<25.00	261.00	<25.00	28.60	<25.00	337.00
MERCURY,TOTAL	UG/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
METHYLENE CHLORIDE	UG/L	<1.60	<1.60	<1.60	<1.60	<1.60	<1.60
NAPHTHALENE	UG/L	<5.90	<5.90	<5.90	<5.90	<5.90	43.00
NITROBENZENE-D(5)	UG/L	83.00	81.00	77.00	78.00	79.00	85.00
PHENANTHRENE	UG/L	<1.90	<1.90	<1.90	<1.90	<1.90	5.20
PHENOL-D(5)	UG/L	110.00	99.00	96.00	110.00	97.00	100.00
PYRENE	UG/L	<2.00	<2.00	<2.00	<2.00	<2.00	6.80
SELENIUM,TOTAL	UG/L	<2.00	2.80	<2.00	5.20	4.30	14.40
SILVER,TOTAL	UG/L	<5.70	<5.70	<5.70	<5.70	<5.70	<5.70
STYRENE	UG/L	<1.60	<1.60	<1.60	<1.60	<1.60	<1.60
TERPHENYL-(D14)	UG/L	64.00	69.00	59.00	65.00	70.00	93.00
TETRACHLOROETHENE	UG/L	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51
TOLUENE	UG/L	<0.70	1.60	0.74	<0.70	<0.70	1.70
TOLUENE-D(8)	UG/L	51.00	53.00	52.00	53.00	51.00	47.00
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
TRICHLOROETHENE	UG/L	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87
VINYL ACETATE	UG/L	<2.60	<2.60	<2.60	<2.60	<2.60	<2.60
VINYL CHLORIDE	UG/L	<1.60	<1.60	<1.60	<1.60	<1.60	<1.60

TABLE A-3
1990 RESULTS OF GROUND-WATER SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS		Sample ID	HMW-1	HMW-2	HMW-3	HMW-4	HMW-5	HMW-6
		Date	03/07/90	03/07/90	03/08/90	03/08/90	03/08/90	03/08/90
		Time	16:55	10:20	09:20	09:35	10:35	11:10
XYLENES, TOTAL	UG/L		<1.00	<1.00	3.30	<1.00	<1.00	9.40

Source: ESE, 1993

TABLE A-4
1992 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS / UNITS	Location	SOIL												
		PSB-1		PSB-2		PSB-2DUP		PSB-3		PSB-4			PSB-5	
	Sample ID	HS-1	HS-2	HS-3	HS-4	HS-DUP		HS-10	HS-11	HS-12	HS-13	HS-14	HS-18	HS-19
	Sample Depth	0-1 FT.	3-4 FT.	0-1 FT.	3-4 FT.	0-1 FT.	3-4 FT.	0-1 FT.	3.5-4.5	0-1 FT.	3.5-4 FT	5.5-6.5	0-1 FT.	3.5-4 FT
	Date	03/03/92	03/03/92	03/03/92	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92
	Time	10:15	10:30	11:15	11:30			08:40	08:45	09:30	09:35	10:00	13:35	13:40
1,1,1-TRICHLOROETHANE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
1,1,2,2-TETRACHLORO- ETHANE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
1,1,2-TRICHLOROETHANE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
1,1-DICHLOROETHANE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
1,1-DICHLOROETHYLENE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
1,2-DICHLOROBENZENE UG/KG-DRY		<78.00	<850.00	<81.00	<84.00	<81.00	<83.00	<380.00	<80.00	<78.00	<80.00	<81.00	<74.00	<82.00
1,2-DICHLOROETHANE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
1,2-DICHLORDETHENE(TOTAL) UG/KG		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
1,2-DICHLOROPROPANE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
1,3-DICHLOROBENZENE UG/KG-DRY		<78.00	<850.00	<81.00	<84.00	<81.00	<83.00	<380.00	<80.00	<78.00	<80.00	<81.00	<74.00	<82.00
1,4-DICHLOROBENZENE UG/KG-DRY		<78.00	<850.00	<81.00	<84.00	<81.00	<83.00	<380.00	<80.00	<78.00	<80.00	<81.00	<74.00	<82.00
2-CHLOROETHYLVINYL- ETHER UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80

Source: ESE, 1993b

TABLE A-4
1992 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS / UNITS	Location	SOIL												
		PSB-1		PSB-2		PSB-2DUP		PSB-3		PSB-4			PSB-5	
	Sample ID	HS-1	HS-2	HS-3	HS-4	HS-DUP		HS-10	HS-11	HS-12	HS-13	HS-14	HS-18	HS-19
	Sample Depth	0-1 FT.	3-4 FT.	0-1 FT.	3-4 FT.	0-1 FT.	3-4 FT.	0-1 FT.	3.5-4.5	0-1 FT.	3.5-4 FT	5.5-6.5	0-1 FT.	3.5-4 FT
	Date	03/03/92	03/03/92	03/03/92	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92
	Time	10:15	10:30	11:15	11:30			08:40	08:45	09:30	09:35	10:00	13:35	13:40
ACENAPHTHENE UG/KG-DRY		<78.00	<850.00	<81.00	<84.00	<81.00	<83.00	<380.00	<80.00	<78.00	<80.00	<81.00	<74.00	<82.00
ACENAPHTHYLENE UG/KG-DRY		<170.00	<1800.00	<170.00	<180.00	<81.00	<83.00	<810.00	<170.00	<170.00	<170.00	<170.00	<74.00	<82.00
ANTHRACENE UG/KG-DRY		<78.00	<850.00	<81.00	<84.00	<81.00	<83.00	670.00	<80.00	<78.00	<80.00	<81.00	<74.00	<82.00
ARSENIC,SED MG/KG-DRY		1.02	0.63	1.28	2.44	1.32	1.31	0.51	0.34	0.33	0.54	0.59	0.61	0.56
BARIUM,SED MG/KG-DRY		11.40	12.80	14.90	23.40	19.10	23.60	18.30	13.90	9.60	14.70	17.70	16.20	19.10
BENZENE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
BENZO(A)ANTHRACENE UG/KG-DRY		370.00	<1200.00	170.00	<120.00	140.00	<120.00	5300.00	<110.00	160.00	<110.00	<120.00	<110.00	<120.00
BENZO(A)PYRENE UG/KG-DRY		320.00	<1700.00	220.00	<170.00	180.00	<170.00	4800.00	<160.00	180.00	<160.00	<160.00	<150.00	<160.00
BENZO(B)FLUORANTHENE UG/KG-DRY		560.00	<1200.00	370.00	<120.00	160.00	<120.00	6900.00	<110.00	260.00	<110.00	<120.00	<110.00	<120.00
BENZO(GHI)PERYLENE UG/KG-DRY		<180.00	<1900.00	<180.00	<190.00	<180.00	<190.00	<870.00	<180.00	<180.00	<180.00	<190.00	<170.00	<190.00
BENZO(K)FLUORANTHENE UG/KG-DRY		250.00	<1200.00	150.00	<120.00	150.00	<120.00	2700.00	<110.00	<110.00	<110.00	<120.00	<110.00	<120.00
BROMODICHLOROMETHANE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80

Source: ESE, 1993b

TABLE A-4

1992 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS / UNITS	Location	SOIL												
		PSB-1		PSB-2		PSB-2DUP		PSB-3		PSB-4			PSB-5	
	Sample ID	HS-1	HS-2	HS-3	HS-4	HS-DUP		HS-10	HS-11	HS-12	HS-13	HS-14	HS-18	HS-19
	Sample Depth	0-1 FT.	3-4 FT.	0-1 FT.	3-4 FT.	0-1 FT.	3-4 FT.	0-1 FT.	3.5-4.5	0-1 FT.	3.5-4 FT	5.5-6.5	0-1 FT.	3.5-4 FT
	Date	03/03/92	03/03/92	03/03/92	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92
	Time	10:15	10:30	11:15	11:30			08:40	08:45	09:30	09:35	10:00	13:35	13:40
BROMOFORM UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
BROMOMETHANE UG/KG-DRY		<11.00	<60.00	<12.00	<12.00	<12.00	<12.00	<11.00	<11.00	<11.00	<11.00	<12.00	<11.00	<12.00
CADMIUM, SED MG/KG-DRY		<0.52	<0.57	<0.54	<0.55	<0.54	<0.56	<0.51	<0.54	<0.51	<0.54	<0.54	<0.50	<0.55
CARBON DISULFIDE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
CARBON TETRACHLORIDE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
CHLOROBENZENE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
CHLOROETHANE UG/KG-DRY		<11.00	<60.00	<12.00	<12.00	<12.00	<12.00	<11.00	<11.00	<11.00	<11.00	<12.00	<11.00	<12.00
CHLOROFORM UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
CHLOROMETHANE UG/KG-DRY		<11.00	<60.00	<12.00	<12.00	<12.00	<12.00	<11.00	<11.00	<11.00	<11.00	<12.00	<11.00	<12.00
CHROMIUM, SED MG/KG-DRY		5.61	2.81	5.88	5.51	6.64	6.03	3.55	2.16	3.02	2.44	2.22	3.68	3.98
CHRYSENE UG/KG-DRY		560.00	<1200.00	200.00	<120.00	130.00	<120.00	5300.00	<110.00	170.00	<110.00	<120.00	<110.00	<120.00
CIS-1,3-DICHLORO- PROPENE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80

Source: ESE, 1993b

TABLE A-4
1992 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS / UNITS	Location	SOIL												
	Sample ID	PSB-1		PSB-2		PSB-2DUP		PSB-3		PSB-4			PSB-5	
	Sample Depth	HS-1	HS-2	HS-3	HS-4	HS-DUP		HS-10	HS-11	HS-12	HS-13	HS-14	HS-18	HS-19
	Date	0-1 FT.	3-4 FT.	0-1 FT.	3-4 FT.	0-1 FT.	3-4 FT.	0-1 FT.	3.5-4.5	0-1 FT.	3.5-4 FT	5.5-6.5	0-1 FT.	3.5-4 FT
	Time	03/03/92	03/03/92	03/03/92	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92
		10:15	10:30	11:15	11:30			08:40	08:45	09:30	09:35	10:00	13:35	13:40
DIBEN(A,H)ANTHRACENE UG/KG-DRY		<180.00	<1900.00	<180.00	<190.00	<180.00	<190.00	<870.00	<180.00	<180.00	<180.00	<190.00	<170.00	<190.00
DIBROMOCHLOROMETHANE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
DICHLOROBENZENE, TOTAL UG/KG-DRY		<11.00	<60.00	<12.00	<12.00	<12.00	<12.00	<11.00	<11.00	<11.00	<11.00	<12.00	<11.00	<12.00
DIETHYL ETHER UG/KG-DRY		<10.00	<60.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
ETHYLBENZENE UG/KG-DRY		<5.60	36.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	9.90	<5.30	<5.80
FLUORANTHENE UG/KG-DRY		690.00	<850.00	120.00	<84.00	160.00	<83.00	8100.00	<80.00	170.00	<80.00	<81.00	< 77.00	<82.00
FLUORENE UG/KG-DRY		<78.00	<850.00	<81.00	<84.00	<81.00	<83.00	<380.00	<80.00	<78.00	<80.00	<81.00	<74.00	<82.00
INDENO(1,2,3-CD) PYRENE UG/KG-DRY		<180.00	<1900.00	<180.00	<190.00	<180.00	<190.00	<870.00	<180.00	<180.00	<180.00	<190.00	<170.00	<190.00
LEAD, SED MG/KG-DRY		28.00	<7.62	17.30	8.82	15.80	7.58	7.39	<7.28	<6.90	<7.29	<7.27	<6.70	<7.31
MERCURY, SED MG/KG-DRY		<0.09	<0.10	<0.10	<0.10	<0.10	<0.10	<0.09	<0.10	<0.09	<0.09	<0.10	<0.09	<0.10
METHYL ETHYL KETONE UG/KG-DRY		<11.00	<60.00	<12.00	13.00	<12.00	25.00	<11.00	<11.00	<11.00	<11.00	<12.00	<11.00	<12.00
METHYLENE CHLORIDE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80

Source: ESE, 1993b

TABLE A-4
1992 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS / UNITS	Location	PSB-1		PSB-2		PSB-2DUP		PSB-3		PSB-4			PSB-5	
	Sample ID	HS-1	HS-2	HS-3	HS-4	HS-DUP		HS-10	HS-11	HS-12	HS-13	HS-14	HS-18	HS-19
	Sample Depth	0-1 FT.	3-4 FT.	0-1 FT.	3-4 FT.	0-1 FT.	3-4 FT.	0-1 FT.	3.5-4.5	0-1 FT.	3.5-4 FT	5.5-6.5	0-1 FT.	3.5-4 FT
	Date	03/03/92	03/03/92	03/03/92	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92
	Time	10:15	10:30	11:15	11:30			08:40	08:45	09:30	09:35	10:00	13:35	13:40
		SOIL												
METHYLISOBUTYLKETONE UG/KG-DRY		<11.00	<60.00	<12.00	<12.00	<12.00	<12.00	<11.00	<11.00	<11.00	<11.00	<12.00	<11.00	<12.00
MOISTURE %WET WT		10.40	17.30	13.50	16.30	13.50	16.10	7.70	12.90	10.00	12.50	13.80	6.00	14.40
NAPHTHALENE UG/KG-DRY		<78.00	3500.00	<81.00	<84.00	<81.00	<83.00	<380.00	<80.00	<78.00	<80.00	<81.00	<74.00	<82.00
PHENANTHRENE UG/KG-DRY		440.00	<850.00	<81.00	<84.00	<81.00	<83.00	670.00	<80.00	<78.00	<80.00	<81.00	<74.00	<82.00
PYRENE UG/KG-DRY		580.00	<850.00	190.00	<84.00	130.00	<83.00	5200.00	<80.00	140.00	<80.00	<81.00	<74.00	<82.00
SELENIUM,SED MG/KG-DRY		<0.27	<0.29	<0.28	<0.29	<0.28	<0.29	<0.26	<0.28	<0.27	<0.28	<0.28	<0.26	<0.28
SILVER,SED MG/KG-DRY		<0.78	<0.86	<0.81	<0.83	<0.81	<0.84	<0.77	<0.82	<0.77	<0.82	<0.82	<0.75	<0.82
TETRACHLOROETHENE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
TOLUENE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
TRANS-1,3-DICHLORO- PROPENE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
TRICHLOROETHENE UG/KG-DRY		<5.60	<30.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	<5.70	<5.80	<5.30	<5.80
TRICHLOROFLUOROMETHANE UG/KG-DRY		14.00	<30.00	12.00	12.00	11.00	10.00	10.00	5.80	7.30	10.00	8.90	<5.30	<5.80

Source: ESE, 1993b

TABLE A-4
1992 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS / UNITS	Location	SOIL												
		PSB-1		PSB-2		PSB-2DUP		PSB-3		PSB-4			PSB-5	
	Sample ID	HS-1	HS-2	HS-3	HS-4	HS-DUP		HS-10	HS-11	HS-12	HS-13	HS-14	HS-18	HS-19
	Sample Depth	0-1 FT.	3-4 FT.	0-1 FT.	3-4 FT.	0-1 FT.	3-4 FT.	0-1 FT.	3.5-4.5	0-1 FT.	3.5-4 FT	5.5-6.5	0-1 FT.	3.5-4 FT
	Date	03/03/92	03/03/92	03/03/92	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92
	Time	10:15	10:30	11:15	11:30			08:40	08:45	09:30	09:35	10:00	13:35	13:40
VINYL CHLORIDE UG/KG-DRY		<11.00	<60.00	<12.00	<12.00	<12.00	<12.00	<11.00	<11.00	<11.00	<11.00	<12.00	<11.00	<12.00
XYLENE, TOTAL UG/KG-DRY		<5.60	200.00	<5.80	<6.00	<5.80	<6.00	<5.40	<5.70	<5.60	24.00	60.00	<5.30	<5.80

Source: ESE, 1993b

TABLE A-4
1992 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS / UNITS	Location	SOIL						SEDIMENT				
		PSB-6			PSB-7			PSS-1	PSS-2	PSS-2DUP	PSS-3	PSS-4
	Sample ID	HS-7	HS-8	HS-9	HS-15	HS-16	HS-17	HSD-1	HSD-2	HSD-DUP	HSD-3	HSD-4
	Sample Depth	0-1 FT.	3-4 FT.	7.5-8.5	0-1 FT.	3-4 FT.	6-7 FT.					
	Date	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92	03/04/92	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92
	Time	14:05	14:10	14:25	10:55	11:00	11:15	16:00	15:15		15:15	15:00
1,1,1-TRICHL'ETHANE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
1,1,2,2-TETRACHLORO- ETHANE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
1,1,2-TRICHL'ETHANE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
1,1-DICHLOROETHANE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
1,1-DICHLOROETHYLENE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
1,2-DICHLOROBENZENE UG/KG-DRY		<82.00	<81.00	<3900.00	<76.00	<77.00	<80.00	<190.00	<910.00	<960.00	<94.00	<96.00
1,2-DICHLOROETHANE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
1,2-DICHLOROETHENE(TOTAL) UG/KG		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
1,2-DICHLOROPROPANE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
1,3-DICHLOROBENZENE UG/KG-DRY		<82.00	<81.00	<3900.00	<76.00	<77.00	<80.00	<190.00	<910.00	<960.00	<94.00	<96.00
1,4-DICHLOROBENZENE UG/KG-DRY		<82.00	<81.00	<3900.00	<76.00	<77.00	<80.00	<190.00	<910.00	<960.00	<94.00	<96.00
2-CHLOROETHYLVINYL- ETHER UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80

Source: ESE, 1993b

TABLE A-4
1992 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS / UNITS	Location	SOIL						SEDIMENT				
		PSB-6			PSB-7			PSS-1	PSS-2	PSS-2DUP	PSS-3	PSS-4
	Sample ID	HS-7	HS-8	HS-9	HS-15	HS-16	HS-17	HSD-1	HSD-2	HSD-DUP	HSD-3	HSD-4
	Sample Depth	0-1 FT.	3-4 FT.	7.5-8.5	0-1 FT.	3-4 FT.	6-7 FT.					
	Date	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92	03/04/92	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92
	Time	14:05	14:10	14:25	10:55	11:00	11:15	16:00	15:15		15:15	15:00
ACENAPHTHENE UG/KG-DRY		<82.00	<81.00	<3900.00	<76.00	<77.00	<80.00	<190.00	<910.00	<960.00	<94.00	110.00
ACENAPHTHYLENE UG/KG-DRY		<180.00	390.00	<8400.00	<160.00	210.00	<80.00	<190.00	<910.00	<960.00	<94.00	<96.00
ANTHRACENE UG/KG-DRY		<82.00	440.00	<3900.00	<76.00	210.00	<80.00	210.00	2400.00	1500.00	<94.00	130.00
ARSENIC,SED MG/KG-DRY		0.50	0.93	0.37	1.61	1.18	0.85	0.49	<0.30	0.37	<0.31	1.05
BARIUM,SED MG/KG- DRY		23.70	15.00	17.10	47.60	38.40	17.60	15.60	8.70	9.95	7.97	12.00
BENZENE UG/KG-DRY		<5.80	<29.00	39.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
BENZO(A)ANTHRACENE UG/KG-DRY		120.00	370.00	<5600.00	120.00	970.00	<110.00	760.00	13000.00	6400.00	160.00	510.00
BENZO(A)PYRENE UG/KG-DRY		<160.00	690.00	<7900.00	<150.00	1300.00	<160.00	850.00	12000.00	7100.00	<190.00	400.00
BENZO(B)FLUORANTHENE UG/KG-DRY		270.00	830.00	<5600.00	210.00	2000.00	<110.00	760.00	13000.00	7200.00	<130.00	450.00
BENZO(GHI)PERYLENE UG/KG-DRY		<190.00	<180.00	<9000.00	<170.00	<180.00	<180.00	<440.00	5100.00	<2200.00	<210.00	<220.00
BENZO(K)FLUORANTHENE UG/KG-DRY		<120.00	240.00	<5600.00	<110.00	620.00	<110.00	890.00	12000.00	7200.00	280.00	390.00
BROMODICHLOROMETHANE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80

Source: ESE, 1993b

TABLE A-4
1992 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS / UNITS	Location	SOIL						SEDIMENT				
		PSB-6			PSB-7			PSS-1	PSS-2	PSS-2DUP	PSS-3	PSS-4
	Sample ID	HS-7	HS-8	HS-9	HS-15	HS-16	HS-17	HSD-1	HSD-2	HSD-DUP	HSD-3	HSD-4
	Sample Depth	0-1 FT.	3-4 FT.	7.5-8.5	0-1 FT.	3-4 FT.	6-7 FT.					
	Date	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92	03/04/92	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92
	Time	14:05	14:10	14:25	10:55	11:00	11:15	16:00	15:15		15:15	15:00
BROMOFORM UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
BROMOMETHANE UG/KG-DRY		<12.00	<58.00	<56.00	<11.00	<11.00	<11.00	<14.00	<13.00	<14.00	<13.00	<14.00
CADMIUM,SED MG/KG-DRY		<0.54	<0.54	<0.53	<0.51	<0.52	<0.54	<0.62	<0.59	<0.62	<0.62	<0.63
CARBON DISULFIDE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
CARBON TETRACHLORIDE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
CHLOROBENZENE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
CHLOROETHANE UG/KG-DRY		<12.00	<58.00	<56.00	<11.00	<11.00	<11.00	<14.00	<13.00	<14.00	<13.00	<14.00
CHLOROFORM UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
CHLOROMETHANE UG/KG-DRY		<12.00	<58.00	<56.00	<11.00	<11.00	<11.00	<14.00	<13.00	<14.00	<13.00	<14.00
CHROMIUM,SED MG/KG-DRY		4.97	2.80	1.94	5.29	6.10	2.86	5.66	2.55	2.86	1.09	3.54
CHRYSENE UG/KG-DRY		220.00	210.00	<5600.00	150.00	1000.00	<110.00	930.00	15000.00	7600.00	180.00	670.00
CIS-1,3-DICHLORO- PROPENE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80

Source: ESE, 1993b

TABLE A-4
1992 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS / UNITS	Location	SOIL						SEDIMENT				
		PSB-6			PSB-7			PSS-1	PSS-2	PSS-2DUP	PSS-3	PSS-4
	Sample ID	HS-7	HS-8	HS-9	HS-15	HS-16	HS-17	HSD-1	HSD-2	HSD-DUP	HSD-3	HSD-4
	Sample Depth	0-1 FT.	3-4 FT.	7.5-8.5	0-1 FT.	3-4 FT.	6-7 FT.					
	Date	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92	03/04/92	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92
	Time	14:05	14:10	14:25	10:55	11:00	11:15	16:00	15:15		15:15	15:00
DIBEN(A,H)ANTHRACENE UG/KG-DRY		<190.00	<180.00	<9000.00	<170.00	<180.00	<180.00	<440.00	<2100.00	<2200.00	<210.00	<220.00
DIBROMOCHLOROMETHANE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
DICHLOROBENZENE,TOTAL UG/KG-DRY		<12.00	<58.00	<56.00	<11.00	<11.00	<11.00	<14.00	<13.00	<14.00	<13.00	<14.00
DIETHYL ETHER UG/KG-DRY		<10.00	<60.00	<60.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
ETHYLBENZENE UG/KG-DRY		<5.80	65.00	540.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
FLUORANTHENE UG/KG-DRY		360.00	320.00	<3900.00	180.00	980.00	<80.00	2200.00	34000.00	15000.00	190.00	1200.00
FLUORENE UG/KG-DRY		<82.00	<81.00	<3900.00	<76.00	<77.00	<80.00	<190.00	1200.00	<960.00	<94.00	130.00
INDENO(1,2,3-CD) PYRENE UG/KG-DRY		<190.00	570.00	<9000.00	<170.00	<180.00	<180.00	440.00	7600.00	3300.00	<210.00	<220.00
LEAD,SED MG/KG-DRY		23.90	8.83	<7.16	13.80	107.00	<7.19	29.40	16.00	22.90	<8.36	<8.46
MERCURY,SED MG/KG-DRY		<0.10	<0.10	<0.09	<0.09	<0.09	<0.09	<0.11	<0.11	<0.12	<0.11	<0.11
METHYL ETHYL KETONE UG/KG-DRY		<12.00	<58.00	<56.00	<11.00	<11.00	<11.00	<14.00	<13.00	<14.00	<13.00	<14.00
METHYLENE CHLORIDE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80

Source: ESE, 1993b

TABLE A-4
1992 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS / UNITS	Location	SOIL						SEDIMENT				
		PSB-6			PSB-7			PSS-1	PSS-2	PSS-2DUP	PSS-3	PSS-4
	Sample ID	HS-7	HS-8	HS-9	HS-15	HS-16	HS-17	HSD-1	HSD-2	HSD-DUP	HSD-3	HSD-4
	Sample Depth	0-1 FT.	3-4 FT.	7.5-8.5	0-1 FT.	3-4 FT.	6-7 FT.					
	Date	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92	03/04/92	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92
	Time	14:05	14:10	14:25	10:55	11:00	11:15	16:00	15:15		15:15	15:00
METHYLISOBUTYLKETONE UG/KG-DRY		<12.00	<58.00	<56.00	<11.00	<11.00	<11.00	<14.00	<13.00	<14.00	<13.00	<14.00
MOISTURE %WET WT		14.50	13.20	11.00	8.30	8.80	12.10	26.60	23.20	27.10	25.40	27.00
NAPHTHALENE UG/KG-DRY		<82.00	1400.00	41000.00	<76.00	<77.00	<80.00	<190.00	<910.00	<960.00	<94.00	<96.00
PHENANTHRENE UG/KG-DRY		170.00	90.00	<3900.00	<76.00	100.00	<80.00	810.00	19000.00	7400.00	<94.00	1400.00
PYRENE UG/KG-DRY		170.00	230.00	<3900.00	110.00	810.00	<80.00	1400.00	21000.00	9100.00	220.00	990.00
SELENIUM,SED MG/KG-DRY		<0.28	<0.28	<0.27	<0.27	<0.26	<0.28	<0.33	<0.31	<0.33	<0.32	<0.34
SILVER,SED MG/KG-DRY		<0.81	<0.80	<0.80	<0.76	<0.78	<0.81	<0.93	<0.89	<0.94	<0.94	<0.95
TETRACHLOROETHENE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
TOLUENE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
TRANS-1,3-DICHLORO- PROPENE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
TRICHLOROETHENE UG/KG-DRY		<5.80	<29.00	<28.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80
TRICHLOROFLUOROMETHANE UG/KG-DRY		14.00	31.00	<28.00	<5.50	<5.50	7.00	6.90	7.40	<6.90	<6.70	<6.80

Source: ESE, 1993b

TABLE A-4
1992 RESULTS OF SOIL AND SEDIMENT SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS / UNITS	Location	SOIL						SEDIMENT				
		PSB-6			PSB-7			PSS-1	PSS-2	PSS-2DUP	PSS-3	PSS-4
	Sample ID	HS-7	HS-8	HS-9	HS-15	HS-16	HS-17	HSD-1	HSD-2	HSD-DUP	HSD-3	HSD-4
	Sample Depth	0-1 FT.	3-4 FT.	7.5-8.5	0-1 FT.	3-4 FT.	6-7 FT.					
	Date	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92	03/04/92	03/03/92	03/03/92	03/03/92	03/04/92	03/04/92
	Time	14:05	14:10	14:25	10:55	11:00	11:15	16:00	15:15		15:15	15:00
VINYL CHLORIDE UG/KG-DRY		<12.00	<58.00	<56.00	<11.00	<11.00	<11.00	<14.00	<13.00	<14.00	<13.00	<14.00
XYLENE, TOTAL UG/KG-DRY		<5.80	220.00	990.00	<5.50	<5.50	<5.70	<6.80	<6.50	<6.90	<6.70	<6.80

Source: ESE, 1993b

TABLE A-5
1992 RESULTS OF GROUND-WATER SAMPLING
Environmental Science and
Engineering, Inc.

TABLE A-5
1992 RESULTS OF GROUND-WATER SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS	Sample ID	HMW-1	HMW-2	HMW-3	HMW-4	HMW-5	HMW-6	HMW-7	HMW-8	HMW-9	HMW-5DUP	HSOURCE	TRPBLK	EQPBLK
	Date	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92
	Time	13:30	13:40	14:20	14:30	13:50	14:00	14:10	14:40	15:00		16:30		13:15
1,1,1-TRICHL'ETHANE	UG/L	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<25.00	<2.50	<13.00	<2.50	<2.50	<2.50	<2.50
1,1,2,2-TETRACHLORO- ETHANE	UG/L	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<15.00	<1.50	<7.50	<1.50	<1.50	<1.50	<1.50
1,1,2-TRICHL'ETHANE	UG/L	<2.80	<2.80	<2.80	<2.80	<2.80	<2.80	<28.00	<2.80	<14.00	<2.80	<2.80	<2.80	<2.80
1,1-DICHLOROETHANE	UG/L	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<25.00	<2.50	<13.00	<2.50	<2.50	<2.50	<2.50
1,1-DICHLOROETHYLENE	UG/L	<3.20	<3.20	<3.20	<3.20	<3.20	<3.20	<32.00	<3.20	<16.00	<3.20	<3.20	<3.20	<3.20
1,2-DICHLOROETHANE	UG/L	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<25.00	<2.50	<13.00	<2.50	<2.50	<2.50	<2.50
1,2-DICHLOROETHENE(TOTAL)	UG/L	<2.40	<2.40	<2.40	<2.40	<2.40	3.50	<24.00	<2.40	<12.00	<2.40	<2.40	<2.40	<2.40
1,2-DICHLOROPROPANE	UG/L	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<20.00	<2.00	<10.00	<2.00	<2.00	<2.00	<2.00
2-CHLOROETHYLVINYL- ETHER	UG/L	<3.10	<3.10	<3.10	<3.10	<3.10	<3.10	<31.00	<3.10	<16.00	<3.10	<3.10	<3.10	<3.10
ACENAPHTHENE	UG/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00	<1.00	<1.00	<1.00	<1.00	NRQ	<1.00
ACENAPHTHYLENE	UG/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00	<1.00	<1.00	<1.00	<1.00	NRQ	<1.00
ANTHRACENE	UG/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00	<1.00	<1.00	<1.00	<1.00	NRQ	<1.00
ARSENIC,TOTAL	UG/L	9.40	<2.30	<2.30	2.30	2.70	14.70	11.30	<2.30	5.20	<2.30	<2.30	NRQ	<2.30
BARIUM,TOTAL	UG/L	76.60	46.50	88.10	54.40	56.60	57.20	147.00	65.00	113.00	56.50	14.90	NRQ	<1.10
BENZENE	UG/L	<1.00	<1.00	<1.00	18.00	<1.00	120.00	660.00	3.50	15.00	<1.00	<1.00	<1.00	<1.00
BENZO(A)ANTHRACENE	UG/L	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<15.00	<1.50	<1.50	<1.50	<1.50	NRQ	<1.50
BENZO(A)PYRENE	UG/L	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<20.00	<2.00	<2.00	<2.00	<2.00	NRQ	<2.00
BENZO(B)FLUORANTHENE	UG/L	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<15.00	<1.50	<1.50	<1.50	<1.50	NRQ	<1.50
BENZO(GHI)PERYLENE	UG/L	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<25.00	<2.50	<2.50	<2.50	<2.50	NRQ	<2.50
BENZO(K)FLUORANTHENE	UG/L	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<15.00	<1.50	<1.50	<1.50	<1.50	NRQ	<1.50
BROMODICHLOROMETHANE	UG/L	<2.20	<2.20	<2.20	<2.20	<2.20	<2.20	<22.00	<2.20	<11.00	<2.20	<2.20	<2.20	<2.20
BROMOFORM	UG/L	<2.60	<2.60	<2.60	<2.60	<2.60	<2.60	<26.00	<2.60	<13.00	<2.60	<2.60	<2.60	<2.60

Source: ESE, 1993b

TABLE A-5

1992 RESULTS OF GROUND-WATER SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS	Sample ID	HMW-1	HMW-2	HMW-3	HMW-4	HMW-5	HMW-6	HMW-7	HMW-8	HMW-9	HMW-5DUP	HSOURCE	TRPBLK	EQPBLK
	Date	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92
	Time	13:30	13:40	14:20	14:30	13:50	14:00	14:10	14:40	15:00		16:30		13:15
BROMOMETHANE	UG/L	<3.50	<3.50	<3.50	<3.50	<3.50	<3.50	<35.00	<3.50	<18.00	<3.50	<3.50	<3.50	<3.50
CADMIUM,TOTAL	UG/L	<4.40	<4.40	<4.40	<4.40	<4.40	<4.40	<4.40	<4.40	<4.40	<4.40	<4.40	NRQ	<4.40
CARBON DISULFIDE	UG/L	<4.40	<4.40	<4.40	<4.40	<4.40	<4.40	<44.00	<4.40	<22.00	<4.40	<4.40	<4.40	<4.40
CARBON TETRACHLORIDE	UG/L	<2.60	<2.60	<2.60	<2.60	<2.60	<2.60	<26.00	<2.60	<13.00	<2.60	<2.60	<2.60	<2.60
CHLOROBENZENE	UG/L	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<14.00	<1.40	<7.00	<1.40	<1.40	<1.40	<1.40
CHLOROETHANE	UG/L	<8.20	<8.20	<8.20	<8.20	<8.20	<8.20	<82.00	<8.20	<41.00	<8.20	<8.20	<8.20	<8.20
CHLOROFORM	UG/L	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<25.00	<2.50	<13.00	<2.50	<2.50	<2.50	<2.50
CHLOROMETHANE	UG/L	<4.40	<4.40	<4.40	<4.40	<4.40	<4.40	<44.00	<4.40	<22.00	<4.40	<4.40	<4.40	<4.40
CHROMIUM,TOTAL	UG/L	17.60	<7.40	<7.40	<7.40	<7.40	<7.40	18.60	<7.40	9.10	<7.40	<7.40	NRQ	<7.40
CHRYSENE	UG/L	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<15.00	<1.50	<1.50	<1.50	<1.50	NRQ	<1.50
CIS-1,3-DICHLORO- PROPENE	UG/L	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<20.00	<2.00	<10.00	<2.00	<2.00	<2.00	<2.00
DIBEN'(A,H)ANTH'CENE	UG/L	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<25.00	<2.50	<2.50	<2.50	<2.50	NRQ	<2.50
DIBROMOCHLOROMETHANE	UG/L	<2.30	<2.30	<2.30	<2.30	<2.30	<2.30	<23.00	<2.30	<12.00	<2.30	<2.30	<2.30	<2.30
DICHLOROBENZENE,TOT.	UG/L	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<40.00	<4.00	<20.00	<4.00	<4.00	<4.00	<4.00
DIETHYL ETHER, TOTAL	UG/L	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<50.00	<5.00	<30.00	<5.00	<5.00	<5.00	<5.00
ETHYLBENZENE	UG/L	<1.30	<1.30	<1.30	<1.30	<1.30	82.00	130.00	<1.30	180.00	<1.30	<1.30	<1.30	<1.30
FLUORANTHENE	UG/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00	<1.00	<1.00	<1.00	<1.00	NRQ	<1.00
FLUORENE	UG/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00	<1.00	<1.00	<1.00	<1.00	NRQ	<1.00
INDENO(1,2,3-CD) PYRENE	UG/L	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<25.00	<2.50	<2.50	<2.50	<2.50	NRQ	<2.50
LEAD,TOTAL	UG/L	<63.80	<63.80	<63.80	<63.80	<63.80	<63.80	<63.80	<63.80	<63.80	<63.80	<63.80	NRQ	<63.80
MERCURY,TOTAL	UG/L	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	NRQ	<0.18
METHYL ETHYL KETONE	UG/L	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<100.00	<10.00	<50.00	<10.00	<10.00	<10.00	<10.00

Source: ESE, 1993b

TABLE A-5
1992 RESULTS OF GROUND-WATER SAMPLING
FIRE TRAINING AREA
Hunter Army Airfield, Georgia

PARAMETERS	Sample ID	HMW-1	HMW-2	HMW-3	HMW-4	HMW-5	HMW-6	HMW-7	HMW-8	HMW-9	HMW-SDUP	HSOURCE	TRPBLK	EQPBLK
	Date	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92	03/12/92
	Time	13:30	13:40	14:20	14:30	13:50	14:00	14:10	14:40	15:00		16:30		13:15
METHYL ISOBUT'KETONE	UG/L	<12.00	<12.00	<12.00	<12.00	<12.00	<12.00	<120.00	<12.00	<60.00	<12.00	<12.00	<12.00	<12.00
METHYLENE CHLORIDE	UG/L	<6.40	<6.40	<6.40	<6.40	<6.40	<6.40	<64.00	<6.40	<32.00	<6.40	<6.40	<6.40	<6.40
NAPHTHALENE	UG/L	<1.00	<1.00	<1.00	<1.00	<1.00	14.00	13.00	<1.00	33.00	<1.00	<1.00	NRQ	<1.00
PHENANTHRENE	UG/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00	<1.00	<1.00	<1.00	<1.00	NRQ	<1.00
PYRENE	UG/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00	<1.00	<1.00	<1.00	<1.00	NRQ	<1.00
SELENIUM,TOTAL	UG/L	<2.00	<2.00	<2.00	<2.00	<2.00	2.10	6.50	<2.00	<2.00	<2.00	<2.00	NRQ	<2.00
SILVER,TOTAL	UG/L	<6.10	<6.10	<6.10	<6.10	<6.10	<6.10	<6.10	<6.10	<6.10	<6.10	<6.10	NRQ	<6.10
TETRACHLOROETHENE	UG/L	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	<19.00	<1.90	<9.50	<1.90	<1.90	<1.90	<1.90
TOLUENE	UG/L	<1.70	<1.70	<1.70	<1.70	<1.70	1.80	<17.00	<1.70	<8.50	<1.70	<1.70	<1.70	<1.70
TRANS-1,3-DICHLORO- PROPENE	UG/L	<1.60	<1.60	<1.60	<1.60	<1.60	<1.60	<16.00	<1.60	<8.00	<1.60	<1.60	<1.60	<1.60
TRICHLOROETHENE	UG/L	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<30.00	<3.00	<15.00	<3.00	<3.00	<3.00	<3.00
TRICHLOROFLUORO- METHANE	UG/L	<4.60	<4.60	<4.60	<4.60	<4.60	<4.60	<46.00	<4.60	<23.00	<4.60	<4.60	<4.60	<4.60
VINYL CHLORIDE	UG/L	<4.60	<4.60	<4.60	<4.60	<4.60	12.00	<46.00	<4.60	<23.00	<4.60	<4.60	<4.60	<4.60
XYLENES,TOTAL	UG/L	<3.70	<3.70	<3.70	<3.70	<3.70	<3.70	820.00	<3.70	950.00	<3.70	<3.70	<3.70	<3.70

Source: ESE, 1993b

TABLE A-6
1995 ANALYTICAL DATA SUMMARY TABLE
SURFACE SOIL SAMPLES
LAW Engineering and
Environmental Services, Inc.

TABLE A-6
1995 ANALYTICAL DATA SUMMARY TABLE
SURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-04	FTASB-06	FTASB-09	FTASB-10	FTASB-11	FTASB-12	FTASB13	FTASB-14	FTASB-15
SAMPLE DATE:	8/23/95	8/23/95	8/23/95	8/24/95	8/24/95	8/24/95	10/3/1995	10/4/1995	10/4/1995
Depth (ft):	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5
PARAMETER/METHOD (units)									
Volatile Organics SW8240B/5030A (mg/kg)									
1,1,1-Trichloroethane	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
1,1,2,2-Tetrachloroethane	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
1,1,2-Trichloroethane	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
1,1-Dichloroethane	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
1,1-Dichloroethene	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
1,2-Dichloroethane	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
1,2-Dichloropropane	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
2-Butanone	<0.011	<0.010	<0.013	**0.014**	<0.011	<0.012	<0.011	<0.011	<0.011
2-Chloroethyl Vinyl Ether	<0.011	<0.010	<0.013	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
2-Hexanone	<0.011	<0.010	<0.013	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
4-Methyl-2-pentanone	<0.011	<0.010	<0.013	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
Acetone	<0.022	<0.021	<0.025	**0.11**	<0.022	**0.1**	<0.022	**0.14**	<0.022
Benzene	<0.006	<0.005	<0.006	<0.006	<0.005	**0.024**	<0.006	<0.006	<0.005
Bromodichloromethane	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
Bromoform	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
Bromomethane	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
Carbon Disulfide	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
Carbon Tetrachloride	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
Chlorobenzene	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
Chloroethane	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
Chloroform	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
Chloromethane	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
Dibromochloromethane	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
Ethylbenzene	<0.006	<0.005	<0.006	**0.007**	<0.005	0.065 J	<0.006	<0.006	<0.005
Methylene Chloride	<0.006	0.002 J	<0.006	<0.006	0.005 J	<0.006	<0.006	0.003 JQ	<0.005

Source: LAW, 1995

TABLE A-6
1995 ANALYTICAL DATA SUMMARY TABLE
SURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-04	FTASB-06	FTASB-09	FTASB-10	FTASB-11	FTASB-12	FTASB13	FTASB-14	FTASB-15
SAMPLE DATE:	8/23/95	8/23/95	8/23/95	8/24/95	8/24/95	8/24/95	10/3/1995	10/4/1995	10/4/1995
Depth (ft):	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5
PARAMETER/METHOD (units)									
Volatile Organics SW8240B/5030A (mg/kg)									
Styrene	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
Tetrachloroethene	<0.006	0.001 J	0.003 J	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
Toluene	<0.006	**0.02**	0.003 J	0.001 J	<0.005	0.140 J	<0.006	<0.006	<0.005
Trichloroethene	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
Vinyl Acetate	<0.011	<0.010	<0.013	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
Vinyl Chloride	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
Xylene (total)	<0.006	<0.005	<0.006	**0.009**	<0.005	0.310 J	<0.006	<0.006	<0.005
cis-1,2-Dichloroethene	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
cis-1,3-Dichloropropene	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
trans-1,2-Dichloroethene	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
trans-1,3-Dichloropropene	<0.006	<0.005	<0.006	<0.006	<0.005	<0.006	<0.006	<0.006	<0.005
ICP Metals SW6010A/SW3050A (mg/kg)									
Barium	11	7.45	11	34	69	9.3	12	12	18
Cadmium	2.2	2.1	2.5	0.66	2.2	2.4	2.2	2.2	2.2
Chromium	3	5.1	2.4	14.7	4.8	4.6	5.7	4.4	4.1
Silver	2.2	2.1	2.5	2.3	2.2	2.4	2.2	2.2	2.2
Arsenic SW7060A/SW3050A (mg/kg)									
Arsenic	0.82	0.56	0.66	1.82	0.86	1.07	1.56	1.28	1.95
Lead SW7421/SW3050A (mg/kg)									
Lead	2.7	15	4.7	111	15	11.4	7.7	11.4	13.9

Source: AW, 1995

TABLE A-6
1995 ANALYTICAL DATA SUMMARY TABLE
SURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-04	FTASB-06	FTASB-09	FTASB-10	FTASB-11	FTASB-12	FTASB13	FTASB-14	FTASB-15
SAMPLE DATE:	8/23/95	8/23/95	8/23/95	8/24/95	8/24/95	8/24/95	10/3/1995	10/4/1995	10/4/1995
Depth (ft):	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5
PARAMETER/METHOD (units)									
Mercury SW7471A (mg/kg)									
Mercury	0.02	0.035	0.025	0.042	0.034	0.042	0.045	0.032	0.026
Selenium SW7740A/SW3050A (mg/kg)									
Selenium	0.35	0.438	0.59	0.32	0.28	0.27	0.17	1.1	1.1
Semi-Volatile Organics SW8270B/SW3550A (mg/kg)									
1,2,4-trichlorobenzene	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
1,2-dichlorobenzene	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	0.099 JQ
1,3-dichlorobenzene	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
1,4-dichlorobenzene	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
2,2'-oxybis (1-chloropropane)	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
2,4,5-trichlorophenol	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
2,4,6-trichlorophenol	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
2,4-dichlorophenol	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
2,4-dimethylphenol	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
2,4-dinitrophenol	<0.920	<0.860	<1.100	<0.940	<0.900	<0.970 JL	<0.920	<0.920	<0.900
2,4-dinitrotoluene	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
2,6-dinitrotoluene	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
2-chloronaphthalene	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
2-chlorophenol	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
2-methylnaphthalene	<0.370	<0.340	<0.420	**2.4**	<0.360	**8.5**	<0.360	<0.370	<0.360
2-methylphenol	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
2-nitroaniline	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390 JL	<0.360	<0.370	<0.360
2-nitrophenol	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
3,3'-dichlorobenzidine	<0.750	<0.700	<0.850	<0.760 JL	<0.730	<0.780 JL	<0.740	<0.750	<0.720

Source: LAW, 1995

TABLE A-6
1995 ANALYTICAL DATA SUMMARY TABLE
SURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-04	FTASB-06	FTASB-09	FTASB-10	FTASB-11	FTASB-12	FTASB13	FTASB-14	FTASB-15
SAMPLE DATE:	8/23/95	8/23/95	8/23/95	8/24/95	8/24/95	8/24/95	10/3/1995	10/4/1995	10/4/1995
Depth (ft):	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5
PARAMETER/METHOD (units)									
Semi-Volatile Organics SW8270B/SW3550A (mg/kg)									
3-nitroaniline	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
4,6-dinitro-2-methylphenol	<0.920	<0.860	<1.100	<0.940 JL	<0.900	<0.980 JL	<0.920	<0.920	<0.900
4-bromophenyl phenyl ether	<0.370	<0.340	<0.420	<0.370 JL	<0.360	<0.390 JL	<0.360	<0.370	<0.360
4-chloro-3-methylphenol	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
4-chloroaniline	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
4-chlorophenyl phenyl ether	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390 JL	<0.360	<0.370	<0.360
4-methylphenol	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
4-nitroaniline	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390 JL	<0.360	<0.370	<0.360
4-nitrophenol	<0.920	<0.860	<1.100	<0.940	<0.900	<0.980 JL	<0.920	<0.920	<0.900
N-nitrosodi-n-propylamine	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390 JL	<0.360	<0.370	<0.360
N-nitrosodiphenylamine	<0.370	<0.340	<0.420	<0.370 JL	<0.360	<0.390 JL	<0.360	<0.370	<0.360
acenaphthene	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390 JL	<0.360	<0.370	<0.360
acenaphthylene	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390 JL	<0.360	0.150 JQ	0.260 JQ
anthracene	<0.370	0.140 J	<0.420	0.180 JL	<0.360	<0.390 JL	<0.360	0.130 JQ	0.150 JQ
benzo (a) anthracene	<0.370	0.170 J	<0.420	0.130 JL	0.230 J	0.210 J	0.160 JQ	**0.93**	**0.73**
benzo (a) pyrene	<0.370	0.240 JL	<0.420 JL	0.077 JL	0.290 J	0.190 JL	0.160 JQ	**1.2**	**0.79**
benzo (b) fluoranthene	<0.370	0.470 I.JL	<0.420 JL	0.180 JL	**0.59**	0.420 I.JL	0.320 JQ	**2.6**	**2.2**
benzo (ghi) perylene	<0.370	0.160 JL	<0.420 JL	<0.370 JL	0.260 J	0.150 JL	0.095 JQ	**0.85**	**0.66**
benzo (k) fluoranthene	<0.370	<0.340 JL	<0.420 JL	<0.370 JL	<0.360	<0.390 JL	<0.360	<0.370	<0.360
benzoic acid	<1.900	<1.800	<2.200	<1.900	<1.800	<2.000	<1.900	<1.900	<1.800
benzyl alcohol	<0.750	<0.700	<0.850	<0.760	<0.730	<0.790	<0.740	<0.750	<0.720
bis (2-chloroethoxy) methane	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
bis (2-chloroethyl) ether	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
bis (2-ethylhexyl) phthalate	0.086 J	0.160 JL	0.230 J	0.840 JL	<0.360	**0.51**	<0.360	<0.370	<0.360
butyl benzyl phthalate	<0.370	<0.340	<0.420	<0.370 JL	<0.360	<0.390	<0.360	<0.370	<0.360

Source: LAW, 1995

TABLE A-6
1995 ANALYTICAL DATA SUMMARY TABLE
SURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-04	FTASB-06	FTASB-09	FTASB-10	FTASB-11	FTASB-12	FTASB13	FTASB-14	FTASB-15
SAMPLE DATE:	8/23/95	8/23/95	8/23/95	8/24/95	8/24/95	8/24/95	10/3/1995	10/4/1995	10/4/1995
Depth (ft):	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5
PARAMETER/METHOD (units)									
Semi-Volatile Organics SW8270B/SW3550A (mg/kg)									
chrysene	<0.370	0.260 J	<0.420	0.130 JL	0.250 J	0.240 J	0.200 JQ	**1**	**0.75**
di-n-butyl phthalate	<0.370	<0.340	<0.420	<0.370 JL	<0.360	0.110 JL	<0.360	<0.370	<0.360
di-n-octyl phthalate	<0.370	<0.340 JL	<0.420 JL	<0.370 JL	<0.360	<0.390 JL	<0.360	<0.370	<0.360
dibenz (a,h) anthracene	<0.370	<0.340 JL	<0.420 JL	<0.370 JL	<0.360	<0.390 JL	<0.360	<0.370	0.200 JQ
dibenzofuran	<0.370	<0.340	<0.420	0.210 J	<0.360	**0.52**	<0.360	<0.370	<0.360
diethyl phthalate	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
dimethyl phthalate	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
fluoranthene	<0.370	**0.36**	<0.420	0.350 JL	0.260 J	0.460 JL	0.220 JQ	**0.73**	**0.67**
fluorene	<0.370	0.160 JL	<0.420	0.280 J	<0.360	**0.78**	<0.360	<0.370	<0.360
hexachlorobenzene	<0.370	<0.340	<0.420	<0.370 JL	<0.360	<0.390 JL	<0.360	<0.370	<0.360
hexachlorobutadiene	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
hexachlorocyclopentadiene	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
hexachloroethane	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
indeno (1,2,3-cd) pyrene	<0.370	0.190 JL	<0.420 JL	<0.370 JL	0.270 J	0.160 JL	0.092 JQ	0.79	**0.6**
isophorone	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
naphthalene	<0.370	0.100 J	<0.420	**1.6**	<0.360	**3.4**	<0.360	<0.370	<0.360
nitrobenzene	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
pentachlorophenol	<0.920	<0.860	<1.100	<0.940 JL	<0.900	<0.980 JL	<0.920	<0.920	<0.900
phenanthrene	<0.370	0.300 J	<0.420	0.710 JL	<0.360	1.600 JL	0.049 JQ	0.098 JQ	0.062 JQ
phenol	<0.370	<0.340	<0.420	<0.370	<0.360	<0.390	<0.360	<0.370	<0.360
pyrene	<0.370	**0.47**	<0.420	0.310 J	0.240 JH	0.370 JH	0.260 JQ	**1.2**	**0.78**
Percent Moisture E160.3 (%)									
Moisture	10.1	3.9	21.4	11.8	7.8	15.6	9.5	10.1	7.4
Moisture Duplicate							-----	-----	

Source: LAW, 1995

TABLE A-6
1995 ANALYTICAL DATA SUMMARY TABLE
SURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-04	FTASB-06	FTASB-09	FTASB-10	FTASB-11	FTASB-12	FTASB13	FTASB-14	FTASB-15
SAMPLE DATE:	8/23/95	8/23/95	8/23/95	8/24/95	8/24/95	8/24/95	10/3/1995	10/4/1995	10/4/1995
Depth (ft):	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5
PARAMETER/METHOD (units)									
TPH SW8015B mod./SW3550A (mg/kg)									
Diesel/#2 Fuel	8	100	100	820	10	8	8	10	30
Gasoline	8	100	100	50	10	8	8	10	30
Kerosene	8	100	100	50	10	15	8	10	30

DATA QUALIFICATION FLAGS/NOTES

J = Estimated quantitation based upon QC data
U = analyte not detected above detection limit
JB = Estimated quantitation: possibly biased high or a false positive based upon blank data
JH = Estimated quantitation: possible biased high based upon QC data
JL = Estimated quantitation: possible biased low or a false negative based upon QC data
R = Datum rejected based upon QC data - do not use
JQ = Estimated below PQL
ND = Not Detected NA = Not Applicable

Source: LAW, 1995

TABLE A-6
1995 ANALYTICAL DATA SUMMARY TABLE
SURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-16	FTASB-17	HMW-10	HMW-12
SAMPLE DATE:	10/4/1995	10/4/1995	10/3/1995	10/2/1995
Depth (ft):	0.5 - 2.5	0.5 - 2.5	0.0 - 2.0	1.5 - 3.0
PARAMETER/METHOD (units)				
Volatile Organics SW8240B/5030A (m				
1,1,1-Trichloroethane	<0.005	<0.005	<0.006	<0.006
1,1,2,2-Tetrachloroethane	<0.005	<0.005	<0.006	<0.006
1,1,2-Trichloroethane	<0.005	<0.005	<0.006	<0.006
1,1-Dichloroethane	<0.005	<0.005	<0.006	<0.006
1,1-Dichloroethene	<0.005	<0.005	<0.006	<0.006
1,2-Dichloroethane	<0.005	<0.005	<0.006	<0.006
1,2-Dichloropropane	<0.005	<0.005	<0.006	<0.006
2-Butanone	<0.011	<0.011	<0.011	<0.012
2-Chloroethyl Vinyl Ether	<0.011	<0.011	<0.011	<0.012
2-Hexanone	<0.011	<0.011	<0.011	<0.012
4-Methyl-2-pentanone	<0.011	<0.011	<0.011	<0.012
Acetone	**0.052**	**0.088**	<0.023	<0.024
Benzene	<0.005	<0.005	<0.006	<0.006
Bromodichloromethane	<0.005	<0.005	<0.006	<0.006
Bromoform	<0.005	<0.005	<0.006	<0.006
Bromomethane	<0.005	<0.005	<0.006	<0.006
Carbon Disulfide	<0.005	<0.005	<0.006	<0.006
Carbon Tetrachloride	<0.005	<0.005	<0.006	<0.006
Chlorobenzene	<0.005	<0.005	<0.006	<0.006
Chloroethane	<0.005	<0.005	<0.006	<0.006
Chloroform	<0.005	<0.005	<0.006	<0.006
Chloromethane	<0.005	<0.005	<0.006	<0.006
Dibromochloromethane	<0.005	<0.005	<0.006	<0.006
Ethylbenzene	<0.005	<0.005	<0.006	<0.006
Methylene Chloride	<0.005	0.004 JQ	<0.006	<0.006

Source: LAW, 1995

TABLE A-6
1995 ANALYTICAL DATA SUMMARY TABLE
SURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-16	FTASB-17	HMW-10	HMW-12
SAMPLE DATE:	10/4/1995	10/4/1995	10/3/1995	10/2/1995
Depth (ft):	0.5 - 2.5	0.5 - 2.5	0.0 - 2.0	1.5 - 3.0
PARAMETER/METHOD (units)				
Volatile Organics SW8240B/5030A (m				
Styrene	<0.005	<0.005	<0.006	0.001 JH
Tetrachloroethene	<0.005	<0.005	<0.006	<0.006
Toluene	<0.005	0.002 JQ	<0.006	0.001 JH
Trichloroethene	<0.005	<0.005	<0.006	<0.006
Vinyl Acetate	<0.011	<0.011	<0.011	<0.012
Vinyl Chloride	<0.005	<0.005	<0.006	<0.006
Xylene (total)	<0.005	<0.005	<0.006	0.002 JH
cis-1,2-Dichloroethene	<0.005	<0.005	<0.006	<0.006
cis-1,3-Dichloropropene	<0.005	<0.005	<0.006	<0.006
trans-1,2-Dichloroethene	<0.005	<0.005	<0.006	<0.006
trans-1,3-Dichloropropene	<0.005	<0.005	<0.006	<0.006
ICP Metals SW6010A/SW3050A (mg/				
Barium	11	18	16	5.96
Cadmium	2.1	2.2	2.3	2.4
Chromium	3.4	4.7	7.7	3.6
Silver	2.1	2.2	2.3	2.4
Arsenic SW7060A/SW3050A (mg/kg)				
Arsenic	1.43	2.14	1.64	0.51
Lead SW7421/SW3050A (mg/kg)				
Lead	3.4	12.4	17	2.5

Source: LAW, 1995

TABLE A-6
1995 ANALYTICAL DATA SUMMARY TABLE
SURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-16	FTASB-17	HMW-10	HMW-12
SAMPLE DATE:	10/4/1995	10/4/1995	10/3/1995	10/2/1995
Depth (ft):	0.5 - 2.5	0.5 - 2.5	0.0 - 2.0	1.5 - 3.0
PARAMETER/METHOD (units)				
Mercury SW7471A (mg/kg)				
Mercury	0.019	0.045	0.046	0.035
Selenium SW7740A/SW3050A (mg/kg				
Selenium	1.1	1.1	0.2	0.23
Semi-Volatile Organics SW8270B/SW				
1,2,4-trichlorobenzene	<0.350	<0.350	<0.370	400
1,2-dichlorobenzene	<0.350	<0.350	<0.370	400
1,3-dichlorobenzene	<0.350	<0.350	<0.370	400
1,4-dichlorobenzene	<0.350	<0.350	<0.370	400
2,2'-oxybis (1-chloropropane)	<0.350	<0.350	<0.370	400
2,4,5-trichlorophenol	<0.350	<0.350	<0.370	400
2,4,6-trichlorophenol	<0.350	<0.350	<0.370	400
2,4-dichlorophenol	<0.350	<0.350	<0.370	400
2,4-dimethylphenol	<0.350	<0.350	<0.370	400
2,4-dinitrophenol	<0.880	<0.890	<0.940	1000
2,4-dinitrotoluene	<0.350	<0.350	<0.370	400
2,6-dinitrotoluene	<0.350	<0.350	<0.370	400
2-chloronaphthalene	<0.350	<0.350	<0.370	400
2-chlorophenol	<0.350	<0.350	<0.370	400
2-methylnaphthalene	<0.350	<0.350	<0.370	400
2-methylphenol	<0.350	<0.350	<0.370	400
2-nitroaniline	<0.350	<0.350	<0.370	400
2-nitrophenol	<0.350	<0.350	<0.370	400
3,3'-dichlorobenzidine	<0.710	<0.720	<0.760	820

Source: LAW, 1995

TABLE A-6
1995 ANALYTICAL DATA SUMMARY TABLE
SURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-16	FTASB-17	HMW-10	HMW-12
SAMPLE DATE:	10/4/1995	10/4/1995	10/3/1995	10/2/1995
Depth (ft):	0.5 - 2.5	0.5 - 2.5	0.0 - 2.0	1.5 - 3.0
PARAMETER/METHOD (units)				
Semi-Volatile Organics SW8270B/SW				
3-nitroaniline	<0.350	<0.350	<0.370	400
4,6-dinitro-2-methylphenol	<0.880	<0.890	<0.940	1000
4-bromophenyl phenyl ether	<0.350	<0.350	<0.370	400
4-chloro-3-methylphenol	<0.350	<0.350	<0.370	400
4-chloroaniline	<0.350	<0.350	<0.370	400
4-chlorophenyl phenyl ether	<0.350	<0.350	<0.370	400
4-methylphenol	<0.350	<0.350	<0.370	400
4-nitroaniline	<0.350	<0.350	<0.370	400
4-nitrophenol	<0.0880	<0.890	<0.940	1000
N-nitrosodi-n-propylamine	<0.350	<0.350	<0.370	400
N-nitrosodiphenylamine	<0.350	<0.350	<0.370	400
acenaphthene	<0.350	<0.350	<0.370	400
acenaphthylene	<0.350	0.240 JQ	<0.370	110
anthracene	<0.350	0.150 JQ	0.042 JQ	110
benzo (a) anthracene	<0.350	**0.63**	0.340 JQ	840
benzo (a) pyrene	<0.350	**0.76**	0.300 JQ	910
benzo (b) fluoranthene	<0.350	**2**	**0.72**	1800
benzo (ghi) perylene	<0.350	**0.58**	0.210 JQ	440
benzo (k) fluoranthene	<0.350	<0.350	<0.370	400
benzoic acid	<1.800	<1.800	0.510 JQ	2100
benzyl alcohol	<0.710	<0.720	<0.760	820
bis (2-chloroethoxy) methane	<0.350	<0.350	<0.370	400
bis (2-chloroethyl) ether	<0.350	<0.350	<0.370	400
bis (2-ethylhexyl) phthalate	<0.350	0.160 JQ	0.140 JQ	390
butyl benzyl phthalate	<0.350	<0.350	<0.370	100

Source: LAW, 1995

TABLE A-6
1995 ANALYTICAL DATA SUMMARY TABLE
SURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-16	FTASB-17	HMW-10	HMW-12
SAMPLE DATE:	10/4/1995	10/4/1995	10/3/1995	10/2/1995
Depth (ft):	0.5 - 2.5	0.5 - 2.5	0.0 - 2.0	1.5 - 3.0
PARAMETER/METHOD (units)				
Semi-Volatile Organics SW8270B/SW				
chrysene	<0.350	**0.71**	**0.39**	830
di-n-butyl phthalate	<0.350	<0.350	<0.370	400
di-n-octyl phthalate	<0.350	<0.350	<0.370	400
dibenz (a,h) anthracene	<0.350	0.091 JQ	<0.370	160
dibenzofuran	<0.350	<0.350	<0.370	400
diethyl phthalate	<0.350	<0.350	<0.370	400
dimethyl phthalate	<0.350	<0.350	<0.370	400
fluoranthene	<0.350	**1.1**	**0.51**	870
fluorene	<0.350	<0.350	<0.370	400
hexachlorobenzene	<0.350	<0.350	<0.370	400
hexachlorobutadiene	<0.350	<0.350	<0.370	400
hexachlorocyclopentadiene	<0.350	<0.350	<0.370	400
hexachloroethane	<0.350	<0.350	<0.370	400
indeno (1,2,3-cd) pyrene	<0.350	**0.52**	0.210 JQ	440
isophorone	<0.350	<0.350	<0.370	400
naphthalene	<0.350	<0.350	<0.370	400
nitrobenzene	<0.350	<0.350	<0.370	400
pentachlorophenol	<0.880	<0.890	<0.940	1000
phenanthrene	<0.350	0.300 JQ	0.170 JQ	71
phenol	<0.350	<0.350	<0.370	400
pyrene	<0.350	**1**	**0.67**	900
Percent Moisture E160.3 (%)				
Moisture	6.2	7	11.5	18.1
Moisture Duplicate		-----	-----	-----

Source: LAW, 1995

TABLE A-6
1995 ANALYTICAL DATA SUMMARY TABLE
SURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-16	FTASB-17	HMW-10	HMW-12
SAMPLE DATE:	10/4/1995	10/4/1995	10/3/1995	10/2/1995
Depth (ft):	0.5 - 2.5	0.5 - 2.5	0.0 - 2.0	1.5 - 3.0
PARAMETER/METHOD (units)				
TPH SW8015B mod./SW3550A (mg/k				
Diesel/#2 Fuel	7	8	50	9
Gasoline	7	8	8	9
Kerosene	7	8	8	9

DATA QUALIFICATION FLAGS/NOT
J = Estimated quantitation based upon Q
U = analyte not detected above detection l
JB = Estimated quantitation: possibly bia
false positive based upon blank dat
JH = Estimated quantitation: possible bia
upon QC data
JL = Estimated quantitation: possible bia
false negative based upon QC data
R = Datum rejected based upon QC data
JQ = Estimated below PQL
ND = Not Detected NA = Not Applicabl

Source: LAW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
LAW Engineering and
Environmental Services, Inc.

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-04	FTASB-06	FTASB-09	FTASB-10	FTASB-11	FTASB-12	FTASB-13	FTASB-14
SAMPLE DATE:	8/23/95	8/23/95	8/23/95	8/24/95	8/24/95	8/24/95	03-Oct-95	04-Oct-95
Depth (ft):	9.0-10.5	8.5-10.0	6.0-7.0	9.0-10.4	9.5-10.0	8.0-10.0	2.5 - 4.5	4.5 - 6.5
Parameter/Method (units)								
Volatile Organics SW8240B/5030A (mg/kg)								
1,1,1-Trichloroethane	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
1,1,2,2-Tetrachloroethane	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
1,1,2-Trichloroethane	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
1,1-Dichloroethane	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
1,1-Dichloroethene	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
1,2-Dichloroethane	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
1,2-Dichloropropane	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
2-Butanone	<0.012	<0.013	<0.011	<1.600	<0.012	<1.600	<0.013	<0.059
2-Chloroethyl Vinyl Ether	<0.012	<0.013	<0.011	<1.600	<0.012	<1.600	<0.013	<0.059
2-Hexanone	<0.012	<0.013	<0.011	<1.600	<0.012	<1.600	<0.013	<0.059
4-Methyl-2-pentanone	<0.012	<0.013	<0.011	<1.600	<0.012	<1.600	<0.013	<0.059
Acetone	<0.024	**0.036**	**0.059**	<3.000	**0.16**	<3.100	<0.026	**1**
Benzene	<0.006	<0.006	<0.006	**18**	**0.087**	**4.9**	<0.007	**0.064**
Bromodichloromethane	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
Bromoform	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
Bromomethane	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
Carbon Disulfide	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
Carbon Tetrachloride	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
Chlorobenzene	<0.006	<0.006	<0.006	<0.770	**0.007**	<0.770	<0.007	<0.030
Chloroethane	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
Chloroform	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
Chloromethane	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
Dibromochloromethane	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
Ethylbenzene	<0.006	<0.006	<0.006	**120**	**4**	**61**	<0.007	**2.4**
Methylene Chloride	<0.006	0.003 J	<0.006	<0.770	<0.006	<0.770	0.003 JH	<0.030

Source: LAW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-04	FTASB-06	FTASB-09	FTASB-10	FTASB-11	FTASB-12	FTASB-13	FTASB-14
SAMPLE DATE:	8/23/95	8/23/95	8/23/95	8/24/95	8/24/95	8/24/95	03-Oct-95	04-Oct-95
Depth (ft):	9.0-10.5	8.5-10.0	6.0-7.0	9.0-10.4	9.5-10.0	8.0-10.0	2.5 - 4.5	4.5 - 6.5
Parameter/Method (units)								
Volatile Organics SW8240B/5030A (mg/kg)								
Styrene	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	0.001 JH	<0.030
Tetrachloroethene	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
Toluene	0.002 J	0.005 J	**0.011**	**0.92**	**0.021**	**16**	<0.007	<0.030
Trichloroethene	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
Vinyl Acetate	<0.012	<0.013	<0.011	<1.600	<0.012	<1.600	<0.013	<0.059
Vinyl Chloride	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
Xylene (total)	<0.006	<0.006	<0.006	**220**	**0.34**	**260**	<0.007	<0.030
cis-1,2-Dichloroethene	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
cis-1,3-Dichloropropene	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
trans-1,2-Dichloroethene	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
trans-1,3-Dichloropropene	<0.006	<0.006	<0.006	<0.770	<0.006	<0.770	<0.007	<0.030
ICP Metals SW6010A/SW3050A (mg/kg)								
Barium	**12**	11.7 J	**15**	**14**	10.6 J	**15**	**33**	8.77 JQ
Cadmium	<2.4	<2.6	<2.3	<2.4	<2.4	<2.5	<2.6	<2.3
Chromium	2.4 J	2.2 J	**5.5**	2.1 J	2.7 J	2.5 J	4.4 J	**4.7**
Silver	<2.4	<2.6	<2.3	<2.4	<2.4	<2.5	<2.6	<2.3
Arsenic SW7060A/SW3050A (mg/kg)								
Arsenic	0.66 J	0.74 J	1.07 J	0.67 J	0.38 J	0.8 J	1.62 JQ	0.73 JQ
Lead SW7421/SW3050A (mg/kg)								
Lead	**3.5**	**2.4**	**59**	**11.1**	**6.2**	**11.3**	**22**	**8.8**
Mercury SW7471A (mg/kg)								
Mercury	0.022 J	<0.13	0.033 J	0.033 J	<0.12	0.02 J	0.071 JQ	0.041 JQ

Source: LAW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-04	FTASB-06	FTASB-09	FTASB-10	FTASB-11	FTASB-12	FTASB-13	FTASB-14
SAMPLE DATE:	8/23/95	8/23/95	8/23/95	8/24/95	8/24/95	8/24/95	03-Oct-95	04-Oct-95
Depth (ft):	9.0-10.5	8.5-10.0	6.0-7.0	9.0-10.4	9.5-10.0	8.0-10.0	2.5 - 4.5	4.5 - 6.5
Parameter/Method (units)								
Selenium SW7740A/SW3050A (mg/kg)								
Selenium	0.17 J	0.15 J	0.43 J	0.14 J	0.13 J	0.18 J	0.31 JQ	0.17
Semi-Volatile Organics 8270B/3550A (mg/kg)								
1,2,4-trichlorobenzene	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
1,2-dichlorobenzene	<0.400	<0.430	<0.370	<1.600	<0.400	<1.600	<0.430	<0.390
1,3-dichlorobenzene	<0.400	<0.430	<0.370	<1.600	<0.400	<1.600	<0.430	<0.390
1,4-dichlorobenzene	<0.400	<0.430	<0.370	<1.600	<0.400	<1.600	<0.430	<0.390
2,2'-oxybis (1-chloropropane)	<0.400	<0.430	<0.370	<1.600	<0.400	<1.600	<0.430	<0.390
2,4,5-trichlorophenol	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
2,4,6-trichlorophenol	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
2,4-dichlorophenol	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
2,4-dimethylphenol	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
2,4-dinitrophenol	<1.000	<1.100	<0.940	<4.000 JL	<1.000	<4.000	<1.100	<0.990
2,4-dinitrotoluene	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	**0.65**
2,6-dinitrotoluene	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
2-chloronaphthalene	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
2-chlorophenol	<0.400	<0.430	<0.370	<1.600	<0.400	<1.600	<0.430	<0.390
2-methylnaphthalene	<0.400	<0.430	<0.370	99.000 JL	**4.5**	**43**	<0.430	**34**
2-methylphenol	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
2-nitroaniline	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
2-nitrophenol	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
3,3'-dichlorobenzidine	<0.810	<0.860	<0.760	<3.300 JL	<0.820	<3.300 JL	<0.870	<0.800

Source: LAW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-04	FTASB-06	FTASB-09	FTASB-10	FTASB-11	FTASB-12	FTASB-13	FTASB-14
SAMPLE DATE:	8/23/95	8/23/95	8/23/95	8/24/95	8/24/95	8/24/95	03-Oct-95	04-Oct-95
Depth (ft):	9.0-10.5	8.5-10.0	6.0-7.0	9.0-10.4	9.5-10.0	8.0-10.0	2.5 - 4.5	4.5 - 6.5
Parameter/Method (units)								
Semi-Volatile Organics 8270B/3550A (mg/kg)								
3-nitroaniline	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
4,6-dinitro-2-methylphenol	<0.400	<1.100	<0.940	<4.000	<1.000	<4.000 JL	<1.100	<0.990
4-bromophenyl phenyl ether	<0.400	<0.430	<0.370	<1.600	<0.400	<1.600 JL	<0.430	<0.390
4-chloro-3-methylphenol	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
4-chloroaniline	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
4-chlorophenyl phenyl ether	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
4-methylphenol	<0.400	<0.430	<0.370	<1.600	<0.400	<1.600	<0.430	<0.390
4-nitroaniline	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
4-nitrophenol	<1.000	<1.100	<0.940	<4.000 JL	<1.000	<4.000	<1.100	<0.990
N-nitrosodi-n-propylamine	<0.400	<0.430	<0.370	<1.600	<0.400	<1.600	<0.430	<0.390
N-nitrosodiphenylamine	<0.400	<0.430	<0.370	<1.600	<0.400	<1.600 JL	<0.430	<0.390
acenaphthene	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	**0.62**
acenaphthylene	0.120 J	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
anthracene	0.150 J	<0.430	0.140 J	0.300 J	<0.400	<1.600 JL	<0.430	0.094 JQ
benzo (a) anthracene	0.100 J	<0.430	0.064 J	<1.600 JL	<0.400	0.300 JL	0.099 JQ	0.200 JQ
benzo (a) pyrene	0.120 J	<0.430	0.081 J	<1.600 JL	<0.400	<1.600 JL	<0.430	0.160 JQ
benzo (b) fluoranthene	0.220 JI	<0.430	0.140 JI	<1.600 JL	<0.400	<1.600 JL	<0.430	0.370 J
benzo (ghi) perylene	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600 JL	<0.430	0.080 JQ
benzo (k) fluoranthene	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600 JL	<0.430	<0.390
benzoic acid	<2.000	<2.200	<1.900	<8.200 JL	<2.100	<8.200	0.640 JQ	<2.000
benzyl alcohol	<0.810	<0.860	<0.760	<3.300	<0.820	<3.300	<0.870	<0.800
bis (2-chloroethoxy) methane	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
bis (2-chloroethyl) ether	<0.400	<0.430	<0.370	<1.600	<0.400	<1.600	<0.430	<0.390
bis (2-ethylhexyl) phthalate	0.320 J	0.230 J	**0.41**	2.000 JL	0.240 J	1.700 JL	<0.430	0.098 JB
butyl benzyl phthalate	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600 JL	<0.430	<0.390

Source: AW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-04	FTASB-06	FTASB-09	FTASB-10	FTASB-11	FTASB-12	FTASB-13	FTASB-14
SAMPLE DATE:	8/23/95	8/23/95	8/23/95	8/24/95	8/24/95	8/24/95	03-Oct-95	04-Oct-95
Depth (ft):	9.0-10.5	8.5-10.0	6.0-7.0	9.0-10.4	9.5-10.0	8.0-10.0	2.5 - 4.5	4.5 - 6.5
Parameter/Method (units)								
Semi-Volatile Organics 8270B/3550A (mg/kg)								
chrysene	0.120 J	<0.430	0.055 J	<1.600 JL	<0.400	0.400 JL	0.110 JQ	0.200 JQ
di-n-butyl phthalate	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600 JL	<0.430	<0.390
di-n-octyl phthalate	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
dibenz (a,h) anthracene	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
dibenzofuran	<0.400	<0.430	<0.370	2.300 JL	0.150 J	0.950 J	<0.430	**0.66**
diethyl phthalate	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
dimethyl phthalate	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
fluoranthene	0.240 J	<0.430	<0.370	0.480 J	<0.400	0.640 JL	0.130 JQ	**0.53**
fluorene	0.190 J	<0.430	<0.370	2.300 JL	0.210 J	1.400 J	<0.430	**0.82**
hexachlorobenzene	<0.400	<0.430	<0.370	<1.600	<0.400	<1.600 JL	<0.430	<0.390
hexachlorobutadiene	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
hexachlorocyclopentadiene	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
hexachloroethane	<0.400	<0.430	<0.370	<1.600	<0.400	<1.600	<0.430	<0.390
indeno (1,2,3-cd) pyrene	<0.400	<0.430	0.080 J	<1.600 JL	<0.400	<1.600 JL	<0.430	<0.390
isophorone	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
naphthalene	0.110 J	<0.430	<0.370	79.000 JL	**3.4**	**35**	<0.430	**21**
nitrobenzene	<0.400	<0.430	<0.370	<1.600 JL	<0.400	<1.600	<0.430	<0.390
pentachlorophenol	<1.000	<1.100	<0.940	<4.000	**<1.000**	<4.000 JL	<1.100	<0.990
phenanthrene	0.180 J	<0.430	0.140 J	**2**	0.360 J	4.200 JL	<0.430	**0.76**
phenol	<0.400	<0.430	<0.370	<1.600	<0.400	<1.600	<0.430	<0.390
pyrene	0.180 J	<0.430	<0.370	0.950 J	<0.400	1.200 J	0.130 JQ	**0.46**
Percent Moisture E160.3 (%)								
Moisture	16.8	22.5	11.6	17.8	18.2	18.5	23.2	15.9
Moisture Duplicate							-----	-----

Source: LAW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-04	FTASB-06	FTASB-09	FTASB-10	FTASB-11	FTASB-12	FTASB-13	FTASB-14
SAMPLE DATE:	8/23/95	8/23/95	8/23/95	8/24/95	8/24/95	8/24/95	03-Oct-95	04-Oct-95
Depth (ft):	9.0-10.5	8.5-10.0	6.0-7.0	9.0-10.4	9.5-10.0	8.0-10.0	2.5 - 4.5	4.5 - 6.5
Parameter/Method (units)								
TPH SW8015B mod./SW3550A (mg/kg)								
Diesel/#2 Fuel	8	9	8	900	50	900	70	800
Gasoline	8	9	8	900	50	900	10	800
Kerosene	8	9	8	19000	750	11000	10	5100

DATA QUALIFICATION FLAGS/NOTES
J = Estimated quantitation based upon QC data
U = analyte not detected above detection limit
JB = Estimated quantitation: possibly biased high or a false positive based upon blank data
JH = Estimated quantitation: possible biased high based upon QC data
JL = Estimated quantitation: possible biased low or a false negative based upon QC data
R = Datum rejected based upon QC data - do not use
JQ = Estimated below PQL
( ) = Reporting Limits [ ] = Dilution Factor
ND = Not Detected NA = Not Applicable

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-15	FTASB-16	FTASB-17	HMW-10	HMW-11	HMW-11	HMW-12	HMW-12
SAMPLE DATE:	04-Oct-95	04-Oct-95	04-Oct-95	03-Oct-95	03-Oct-95	03-Oct-95	02-Oct-95	02-Oct-95
Depth (ft):	4.5 - 6.5	6.5 - 8.1	4.5 - 6.5	2.0 - 4.0	2.0 - 4.0	6.0 - 8.0	1.5 - 3.0	4.5 - 6.0
Parameter/Method (units)								
Volatile Organics SW8240B/5030A (m								
1,1,1-Trichloroethane	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
1,1,2,2-Tetrachloroethane	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
1,1,2-Trichloroethane	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
1,1-Dichloroethane	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
1,1-Dichloroethene	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
1,2-Dichloroethane	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
1,2-Dichloropropane	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
2-Butanone	<0.012	<0.012	<0.011	<0.012	<0.012	<0.013	<0.012	<0.012
2-Chloroethyl Vinyl Ether	<0.012	<0.012	<0.011	<0.012	<0.012	<0.013	<0.012	<0.012
2-Hexanone	<0.012	<0.012	<0.011	<0.012	<0.012	<0.013	<0.012	<0.012
4-Methyl-2-pentanone	<0.012	<0.012	<0.011	<0.012	<0.012	<0.013	<0.012	<0.012
Acetone	**0.11**	**0.11**	<0.022	**2.8**	**24**	**2.3**	<0.024	**1.2**
Benzene	<0.006	<0.006	<0.006	<0.006	<0.006	**0.013**	<0.006	<0.006
Bromodichloromethane	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Bromoform	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Bromomethane	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Carbon Disulfide	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Carbon Tetrachloride	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Chlorobenzene	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Chloroethane	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Chloroform	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Chloromethane	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Dibromochloromethane	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Ethylbenzene	<0.006	<0.006	<0.006	<0.006	<0.006	**0.035**	<0.006	<0.006
Methylene Chloride	0.002 JQ	0.005 JQ	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006

Source: LAW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-15	FTASB-16	FTASB-17	HMW-10	HMW-11	HMW-11	HMW-12	HMW-12
SAMPLE DATE:	04-Oct-95	04-Oct-95	04-Oct-95	03-Oct-95	03-Oct-95	03-Oct-95	02-Oct-95	02-Oct-95
Depth (ft):	4.5 - 6.5	6.5 - 8.1	4.5 - 6.5	2.0 - 4.0	2.0 - 4.0	6.0 - 8.0	1.5 - 3.0	4.5 - 6.0
Parameter/Method (units)								
Volatile Organics SW8240B/5030A (m								
Styrene	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.001 JH	<0.006
Tetrachloroethene	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Toluene	<0.006	<0.006	<0.006	0.002 JQ	0.002 JQ	**0.008**	0.001 JH	0.001 JQ
Trichloroethene	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Vinyl Acetate	<0.012	<0.012	<0.011 JL	<0.012	<0.012	<0.013	<0.012	<0.012
Vinyl Chloride	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Xylene (total)	<0.006	<0.006	<0.006	0.001 JQ	<0.006	**3.1**	0.002 JH	<0.006
cis-1,2-Dichloroethene	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
cis-1,3-Dichloropropene	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
trans-1,2-Dichloroethene	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
trans-1,3-Dichloropropene	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
ICP Metals SW6010A/SW3050A (mg/								
Barium	7.27 JQ	10.7 J	6.38 JQ	6.25 JQ	11.7 J	7.37 JQ	5.96 JQ	5.68 JQ
Cadmium	<2.3	<2.4	<2.2	<2.4	<2.4	<2.6	<2.4	<2.4
Chromium	2.6 JQ	3.7 JQ	2.1 JQ	3.3 JQ	**8.1**	**7.5**	3.6 JQ	4.6 J
Silver	<2.3	<2.4	<2.2	<2.4	<2.4	<2.6	<2.4	<2.4
Arsenic SW7060A/SW3050A (mg/kg)								
Arsenic	0.61 JQ	1.29 JQ	0.26 JQ	0.26 JQ	0.84 JQ	0.75 JQ	0.51 JQ	1.04 JQ
Lead SW7421/SW3050A (mg/kg)								
Lead	**5.4**	**3.1**	**2**	**11.8**	**2.7**	**2.2**	**2.5**	**2**
Mercury SW7471A (mg/kg)								
Mercury	0.045	0.031	0.11	0.033	0.034	0.032	0.035	0.032

Source: LAW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-15	FTASB-16	FTASB-17	HMW-10	HMW-11	HMW-11	HMW-12	HMW-12
SAMPLE DATE:	04-Oct-95	04-Oct-95	04-Oct-95	03-Oct-95	03-Oct-95	03-Oct-95	02-Oct-95	02-Oct-95
Depth (ft):	4.5 - 6.5	6.5 - 8.1	4.5 - 6.5	2.0 - 4.0	2.0 - 4.0	6.0 - 8.0	1.5 - 3.0	4.5 - 6.0
Parameter/Method (units)								
Selenium SW7740A/SW3050A (mg/kg								
Selenium	0.16	1.2	1.1	0.22	0.25	0.37	0.23	0.54
Semi-Volatile Organics 8270B/3550A (								
1,2,4-trichlorobenzene	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
1,2-dichlorobenzene	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
1,3-dichlorobenzene	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
1,4-dichlorobenzene	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
2,2'-oxybis (1-chloropropane)	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
2,4,5-trichlorophenol	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
2,4,6-trichlorophenol	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
2,4-dichlorophenol	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
2,4-dimethylphenol	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
2,4-dinitrophenol	<0.970	<0.990	<0.930	<1.000	<1.000	<1.100	<1.000	<1.000
2,4-dinitrotoluene	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
2,6-dinitrotoluene	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
2-chloronaphthalene	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
2-chlorophenol	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
2-methylnaphthalene	<0.390	<0.390	<0.370	<0.410	<0.400	**0.64**	<0.400	<0.400
2-methylphenol	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
2-nitroaniline	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
2-nitrophenol	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
3,3'-dichlorobenzidine	<0.780	<0.800	<0.750	<0.830	<0.810	<0.870	<0.820	<0.810

Source: LAW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-15	FTASB-16	FTASB-17	HMW-10	HMW-11	HMW-11	HMW-12	HMW-12
SAMPLE DATE:	04-Oct-95	04-Oct-95	04-Oct-95	03-Oct-95	03-Oct-95	03-Oct-95	02-Oct-95	02-Oct-95
Depth (ft):	4.5 - 6.5	6.5 - 8.1	4.5 - 6.5	2.0 - 4.0	2.0 - 4.0	6.0 - 8.0	1.5 - 3.0	4.5 - 6.0
Parameter/Method (units)								
Semi-Volatile Organics 8270B/3550A (								
3-nitroaniline	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
4,6-dinitro-2-methylphenol	<0.970	<0.990	<0.930	<1.000	<1.000	<1.100	<1.000	<1.000
4-bromophenyl phenyl ether	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
4-chloro-3-methylphenol	<0.390	<0.390	<0.370 JL	<0.410	<0.400	<0.430	<0.400	<0.400
4-chloroaniline	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
4-chlorophenyl phenyl ether	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
4-methylphenol	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
4-nitroaniline	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
4-nitrophenol	<0.970	<0.990	<0.370	<1.000	<1.000	<1.100	<1.000	<1.000
N-nitrosodi-n-propylamine	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
N-nitrosodiphenylamine	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
acenaphthene	<0.390	<0.390	<0.370	<0.410	0.170 JQ	0.110 JQ	<0.400	<0.400
acenaphthylene	<0.390	<0.390	**0.39**	<0.410	**0.71**	**0.59**	0.110 JQ	0.150 JQ
anthracene	<0.390	<0.390	0.190 JQ	<0.410	**1.9**	**0.72**	0.110 JQ	0.160 JQ
benzo (a) anthracene	<0.390	<0.390	**1.4**	<0.410	**8**	**3.6**	**0.84**	**1.1**
benzo (a) pyrene	<0.390	<0.390	**1.3**	<0.410	**5.7**	**3.2**	**0.91**	**1.2**
benzo (b) fluoranthene	<0.390	<0.390	**1.6**	<0.410	**12**	**4.9**	**1.8**	**2.3**
benzo (ghi) perylene	<0.390	<0.390	**0.65**	<0.410	**2**	**1.4**	**0.44**	**0.59**
benzo (k) fluoranthene	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
benzoic acid	<2.000	<2.000	<1.900	<2.100	0.550 JQ	0.620 JQ	<2.100	<2.000
benzyl alcohol	<0.780	<0.800	<0.750	<0.830	<0.810	<0.870	<0.820	<0.810
bis (2-chloroethoxy) methane	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
bis (2-chloroethyl) ether	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
bis (2-ethylhexyl) phthalate	<0.390	0.090 JQ	0.100 JQ	0.110 JQ	0.380 JQ	**1.1**	0.390 J	**0.43**
butyl benzyl phthalate	<0.390	<0.390	<0.370	<0.410	0.120 JQ	0.330 JQ	0.100 JQ	0.120 JQ

Source: TAW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-15	FTASB-16	FTASB-17	HMW-10	HMW-11	HMW-11	HMW-12	HMW-12
SAMPLE DATE:	04-Oct-95	04-Oct-95	04-Oct-95	03-Oct-95	03-Oct-95	03-Oct-95	02-Oct-95	02-Oct-95
Depth (ft):	4.5 - 6.5	6.5 - 8.1	4.5 - 6.5	2.0 - 4.0	2.0 - 4.0	6.0 - 8.0	1.5 - 3.0	4.5 - 6.0
Parameter/Method (units)								
Semi-Volatile Organics 8270B/3550A (								
chrysene	<0.390	<0.390	**1.8**	<0.410	**6.3**	**4**	**0.83**	**1.1**
di-n-butyl phthalate	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
di-n-octyl phthalate	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
dibenz (a,h) anthracene	<0.390	<0.390	0.240 JQ	<0.410	<0.400	<0.430	0.160 JQ	<0.400
dibenzofuran	<0.390	<0.390	<0.370	<0.410	0.240 JQ	0.082 JQ	<0.400	<0.400
diethyl phthalate	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
dimethyl phthalate	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
fluoranthene	<0.390	<0.390	**1.3**	<0.410	**19**	**5.2**	**0.87**	**1.2**
fluorene	<0.390	<0.390	<0.370	<0.410	**0.42**	**0.63**	<0.400	<0.400
hexachlorobenzene	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
hexachlorobutadiene	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
hexachlorocyclopentadiene	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
hexachloroethane	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
indeno (1,2,3-cd) pyrene	<0.390	<0.390	**0.49**	<0.410	**2.2**	**1.3**	**0.44**	**0.58**
isophorone	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
naphthalene	<0.390	<0.390	<0.370	<0.410	<0.400	**1**	<0.400	<0.400
nitrobenzene	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
pentachlorophenol	<0.970	<0.990	<0.930	<1.000	<1.000	<1.100	<1.000	<1.000
phenanthrene	<0.390	<0.390	**0.42**	<0.410	**6.3**	**3.3**	0.071 JQ	0.130 JQ
phenol	<0.390	<0.390	<0.370	<0.410	<0.400	<0.430	<0.400	<0.400
pyrene	<0.390	<0.390	2.300 JL	<0.410	**14**	**7.2**	**0.9**	**1.3**
Percent Moisture E160.3 (%)								
Moisture	14.5	15.9	10.6	19	16.9	22.7	18.1	16.8
Moisture Duplicate	-----	-----	-----	-----	-----	-----	-----	-----

Source: LAW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	FTASB-15	FTASB-16	FTASB-17	HMW-10	HMW-11	HMW-11	HMW-12	HMW-12
SAMPLE DATE:	04-Oct-95	04-Oct-95	04-Oct-95	03-Oct-95	03-Oct-95	03-Oct-95	02-Oct-95	02-Oct-95
Depth (ft):	4.5 - 6.5	6.5 - 8.1	4.5 - 6.5	2.0 - 4.0	2.0 - 4.0	6.0 - 8.0	1.5 - 3.0	4.5 - 6.0
Parameter/Method (units)								
TPH SW8015B mod./SW3550A (mg/k								
Diesel/#2 Fuel	8	8	8	50	100	500	9	10
Gasoline	8	8	8	9	100	500	9	10
Kerosene	8	8	8	9	100	500	9	10

DATA QUALIFICATION FLAGS/NOT
J = Estimated quantitation based upon Q
U = analyte not detected above detection l
JB = Estimated quantitation: possibly bia
false positive based upon blank dat
JH = Estimated quantitation: possible bia
upon QC data
JL = Estimated quantitation: possible bia
false negative based upon QC data
R = Datum rejected based upon QC data
JQ = Estimated below PQL
( ) = Reporting Limits [ ] = Dilution Fact
ND = Not Detected NA = Not Applicabl

Source: AW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-13	HMW-13
SAMPLE DATE:	03-Oct-95	03-Oct-95
Depth (ft):	2.0 - 4.0	8.0 - 10.0
Parameter/Method (units)		
Volatile Organics SW8240B/5030A (m		
1,1,1-Trichloroethane	<1.600	<0.029
1,1,2,2-Tetrachloroethane	<1.600	<0.029
1,1,2-Trichloroethane	<1.600	<0.029
1,1-Dichloroethane	<1.600	<0.029
1,1-Dichloroethene	<1.600	<0.029
1,2-Dichloroethane	<1.600	<0.029
1,2-Dichloropropane	<1.600	<0.029
2-Butanone	<3.000	<0.058
2-Chloroethyl Vinyl Ether	<3.000	<0.058
2-Hexanone	<3.000	<0.058
4-Methyl-2-pentanone	<3.000	<0.058
Acetone	<6.000	**2.1**
Benzene	**1.9**	**0.044**
Bromodichloromethane	<1.600	<0.029
Bromoform	<1.600	<0.029
Bromomethane	<1.600	<0.029
Carbon Disulfide	<1.600	<0.029
Carbon Tetrachloride	<1.600	<0.029
Chlorobenzene	<1.600	<0.029
Chloroethane	<1.600	<0.029
Chloroform	<1.600	<0.029
Chloromethane	<1.600	<0.029
Dibromochloromethane	<1.600	<0.029
Ethylbenzene	**65**	**0.54**
Methylene Chloride	<1.600	<0.029

Source: LAW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-13	HMW-13
SAMPLE DATE:	03-Oct-95	03-Oct-95
Depth (ft):	2.0 - 4.0	8.0 - 10.0
Parameter/Method (units)		
Volatile Organics SW8240B/5030A (m		
Styrene	<1.600	<0.029
Tetrachloroethene	<1.600	<0.029
Toluene	**2.2**	0.013 JQ
Trichloroethene	<1.600	<0.029
Vinyl Acetate	<3.000	<0.058
Vinyl Chloride	<1.600	<0.029
Xylene (total)	**310**	**3.1**
cis-1,2-Dichloroethene	<1.600	<0.029
cis-1,3-Dichloropropene	<1.600	<0.029
trans-1,2-Dichloroethene	<1.600	<0.029
trans-1,3-Dichloropropene	<1.600	<0.029
ICP Metals SW6010A/SW3050A (mg/		
Barium	7.85 JQ	**27**
Cadmium	<2.4	<2.3
Chromium	3 JQ	**31.7**
Silver	<2.4	<2.3
Arsenic SW7060A/SW3050A (mg/kg)		
Arsenic	0.72 JQ	0.6 JQ
Lead SW7421/SW3050A (mg/kg)		
Lead	**16.4**	**3.2**
Mercury SW7471A (mg/kg)		
Mercury	0.033	0.03

Source: AW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-13	HMW-13
SAMPLE DATE:	03-Oct-95	03-Oct-95
Depth (ft):	2.0 - 4.0	8.0 - 10.0
Parameter/Method (units)		
Selenium SW7740A/SW3050A (mg/kg		
Selenium	0.44	0.23
Semi-Volatile Organics 8270B/3550A (		
1,2,4-trichlorobenzene	<0.400	<0.380
1,2-dichlorobenzene	<0.400	<0.380
1,3-dichlorobenzene	<0.400	<0.380
1,4-dichlorobenzene	<0.400	<0.380
2,2'-oxybis (1-chloropropane)	<0.400	<0.380
2,4,5-trichlorophenol	<0.400	<0.380
2,4,6-trichlorophenol	<0.400	<0.380
2,4-dichlorophenol	<0.400	<0.380
2,4-dimethylphenol	<0.400	<0.380
2,4-dinitrophenol	<1.000	<0.970
2,4-dinitrotoluene	<0.400	<0.380
2,6-dinitrotoluene	<0.400	<0.380
2-chloronaphthalene	<0.400	<0.380
2-chlorophenol	<0.400	<0.380
2-methylnaphthalene	**32**	0.280 JQ
2-methylphenol	<0.400	<0.380
2-nitroaniline	<0.400	<0.380
2-nitrophenol	<0.400	<0.380
3,3'-dichlorobenzidine	<0.810	<0.780

Source: LAW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-13	HMW-13
SAMPLE DATE:	03-Oct-95	03-Oct-95
Depth (ft):	2.0 - 4.0	8.0 - 10.0
Parameter/Method (units)		
Semi-Volatile Organics 8270B/3550A (		
3-nitroaniline	<0.400	<0.380
4,6-dinitro-2-methylphenol	<1.000	<0.970
4-bromophenyl phenyl ether	<0.400	<0.380
4-chloro-3-methylphenol	<0.400	<0.380
4-chloroaniline	<0.400	<0.380
4-chlorophenyl phenyl ether	<0.400	<0.380
4-methylphenol	<0.400	<0.380
4-nitroaniline	<0.400	<0.380
4-nitrophenol	<1.000	<0.970
N-nitrosodi-n-propylamine	<0.400	<0.380
N-nitrosodiphenylamine	<0.400	<0.380
acenaphthene	<0.400	<0.380
acenaphthylene	<0.400	<0.380
anthracene	<0.400	<0.380
benzo (a) anthracene	0.061 JQ	<0.380
benzo (a) pyrene	<0.400	<0.380
benzo (b) fluoranthene	0.110 JQ	<0.380
benzo (ghi) perylene	<0.400	<0.380
benzo (k) fluoranthene	<0.400	<0.380
benzoic acid	<2.000	<2.000
benzyl alcohol	<0.810	<0.780
bis (2-chloroethoxy) methane	<0.400	<0.380
bis (2-chloroethyl) ether	<0.400	<0.380
bis (2-ethylhexyl) phthalate	**0.42**	0.290 JQ
butyl benzyl phthalate	<0.400	<0.380

Source: LAW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-13	HMW-13
SAMPLE DATE:	03-Oct-95	03-Oct-95
Depth (ft):	2.0 - 4.0	8.0 - 10.0
Parameter/Method (units)		
Semi-Volatile Organics 8270B/3550A (		
chrysene	0.072 JQ	<0.380
di-n-butyl phthalate	<0.400	<0.380
di-n-octyl phthalate	<0.400	0.110 JQ
dibenz (a,h) anthracene	<0.400	<0.380
dibenzofuran	**0.66**	<0.380
diethyl phthalate	<0.400	<0.380
dimethyl phthalate	<0.400	<0.380
fluoranthene	0.120 JQ	<0.380
fluorene	**0.64**	<0.380
hexachlorobenzene	<0.400	<0.380
hexachlorobutadiene	<0.400	<0.380
hexachlorocyclopentadiene	<0.400	<0.380
hexachloroethane	<0.400	<0.380
indeno (1,2,3-cd) pyrene	<0.400	<0.380
isophorone	<0.400	<0.380
naphthalene	**22**	0.220 JQ
nitrobenzene	<0.400	<0.380
pentachlorophenol	<1.000	<0.970
phenanthrene	0.300 JQ	<0.380
phenol	<0.400	<0.380
pyrene	0.140 JQ	<0.380
Percent Moisture E160.3 (%)		
Moisture	16.8	14.1
Moisture Duplicate	-----	-----

Source: LAW, 1995

TABLE A-7
1995 ANALYTICAL DATA SUMMARY TABLE
SUBSURFACE SOIL SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-13	HMW-13
SAMPLE DATE:	03-Oct-95	03-Oct-95
Depth (ft):	2.0 - 4.0	8.0 - 10.0
Parameter/Method (units)		
TPH SW8015B mod./SW3550A (mg/k		
Diesel/#2 Fuel	800	10
Gasoline	800	30
Kerosene	13000	10

DATA QUALIFICATION FLAGS/NOT
J = Estimated quantitation based upon Q
U = analyte not detected above detection l
JB = Estimated quantitation: possibly bia
false positive based upon blank dat
JH = Estimated quantitation: possible bia
upon QC data
JL = Estimated quantitation: possible bia
false negative based upon QC data
R = Datum rejected based upon QC data
JQ = Estimated below PQL
( ) = Reporting Limits [ ] = Dilution Fact
ND = Not Detected NA = Not Applicabl

Source: LAW, 1995

TABLE A-8
1995 ANALYTICAL DATA SUMMARY TABLE
GROUND-WATER SAMPLES
LAW Engineering and
Environmental Services, Inc.

TA[illegible] A-8

1995 ANALYTICAL D[illegible]A SUMMARY TABLE

GROUND-WATER SAMPLES

Former Fire Training Area

Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-1	HMW-2	HMW-3	HMW-4	HMW-5	HMW-6	HMW-8	HMW-9
SAMPLE DATE:	07-Oct-95	07-Oct-95	06-Oct-95	06-Oct-95	06-Oct-95	06-Oct-95	08-Oct-95	08-Oct-95
PARAMETER/METHOD (units)								
Volatile Organics SW8240B/SW3510B (mg/L)								
1,1,1-Trichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
2-Chloroethyl Vinyl Ether	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010 JL
2-Hexanone	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
4-Methyl-2-pentanone	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Acetone	<0.020	<0.020	<0.020	<0.020	<0.020	0.017 JQ	0.006 JQ	<0.020
Benzene	<0.005	<0.005	0.001 JQ	0.001 JQ	<0.005	0.1	0.11	0.025
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon Disulfide	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	0.037	0.011	0.012
Methylene Chloride	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Styrene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl Acetate	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Vinyl Chloride	<0.005	<0.005	<0.005	<0.005	<0.005	0.011	<0.005	<0.005

Source: LAW, 1995

TABLE A-8
1995 ANALYTICAL DATA SUMMARY TABLE
GROUND-WATER SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-1	HMW-2	HMW-3	HMW-4	HMW-5	HMW-6	HMW-8	HMW-9
SAMPLE DATE:	07-Oct-95	07-Oct-95	06-Oct-95	06-Oct-95	06-Oct-95	06-Oct-95	08-Oct-95	08-Oct-95
PARAMETER/METHOD (units)								
Volatile Organics SW8240B/SW3510B (mg/L)								
Xylene (total)	<0.005	<0.005	0.001 JQ	<0.005	<0.005	0.002 JQ	0.002 JQ	0.310 JL
cis-1,2-Dichloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,3-Dichloropropene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ICP Metals SW6010A/SW3005A (mg/L)								
Barium	0.042	0.095	0.048	0.112	0.03	0.045	0.093	0.068
Cadmium	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Chromium	0.02	0.0147	0.02	0.0118	0.02	0.02	0.02	0.02
Silver	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Arsenic SW7060A/SW3020A (mg/L)								
Arsenic	0.01	0.003	0.0026	0.01	0.01	0.031	0.006	0.0036
Lead SW7421/SW3020A (mg/L)								
Lead	0.003	0.0173	0.003	0.0118	0.003	0.0026	0.003	0.003
Mercury SW7470A (mg/L)								
Mercury	0.00006	0.00024	0.000078	0.000060	0.000057	0.000058	0.000055	0.000056
Selenium SW7740/SW3020A (mg/L)								
Selenium	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Semi-Volatile Organics SW3510B/8270B (mg/L)								
1,2,4-trichlorobenzene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
1,2-dichlorobenzene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
1,3-dichlorobenzene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
1,4-dichlorobenzene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
2,2'oxybis (1-chloropropane)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
2,4,5-trichlorophenol	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020

Source: LAW, 1995

TA A-8

1995 ANALYTICAL DATA SUMMARY TABLE
GROUND-WATER SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-1	HMW-2	HMW-3	HMW-4	HMW-5	HMW-6	HMW-8	HMW-9
SAMPLE DATE:	07-Oct-95	07-Oct-95	06-Oct-95	06-Oct-95	06-Oct-95	06-Oct-95	08-Oct-95	08-Oct-95
PARAMETER/METHOD (units)								
Semi-Volatile Organics SW3510B/8270B (mg/L)								
2,4,6-trichlorophenol	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
2,4-dichlorophenol	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
2,4-dimethylphenol	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.003 JQ	<0.020
2,4-dinitrophenol	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050
2,4-dinitrotoluene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
2,6-dinitrotoluene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
2-chloronaphthalene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
2-chlorophenol	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
2-methylnaphthalene	<0.010	<0.010	<0.010	<0.010	<0.010	0.009 JQ	<0.010	<0.020
2-methylphenol	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
2-nitroaniline	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
2-nitrophenol	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
3,3'-dichlorobenzidine	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040
3-nitroaniline	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
4,6-dinitro-2-methylphenol	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050
4-bromophenyl phenyl ether	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
4-chloro-3-methylphenol	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
4-chloroaniline	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
4-chlorophenyl phenyl ether	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
4-methylphenol	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
4-nitroaniline	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
4-nitrophenol	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050
N-nitrosodi-n-propylamine	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
N-nitrosodiphenylamine	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
acenaphthene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
acenaphthylene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
anthracene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
benzo (a) anthracene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
benzo (a) pyrene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
benzo (b) fluoranthene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
benzo (ghi) perylene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020

Source: LAW, 1995

TABLE A-8
1995 ANALYTICAL DATA SUMMARY TABLE
GROUND-WATER SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-1	HMW-2	HMW-3	HMW-4	HMW-5	HMW-6	HMW-8	HMW-9
SAMPLE DATE:	07-Oct-95	07-Oct-95	06-Oct-95	06-Oct-95	06-Oct-95	06-Oct-95	08-Oct-95	08-Oct-95
PARAMETER/METHOD (units)								
Semi-Volatile Organics SW3510B/8270B (mg/L)								
benzo (k) fluoranthene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
benzoic acid	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.100
benzyl alcohol	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040
bis (2-chloroethoxy) methane	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
bis (2-chloroethyl) ether	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
bis (2-ethylhexyl) phthalate	0.002 JQ	0.006 JQ	<0.010	<0.010	0.003 JQ	<0.010	<0.010	<0.020
butyl benzyl phthalate	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
chrysene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
di-n-butyl phthalate	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
di-n-octyl phthalate	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
dibenz (a,h) anthracene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
dibenzofuran	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
diethyl phthalate	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
dimethyl phthalate	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
fluoranthene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
fluorene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
hexachlorobenzene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
hexachlorobutadiene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
hexachlorocyclopentadiene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
hexachloroethane	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
indeno (1,2,3-cd) pyrene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
isophorone	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
naphthalene	<0.010	<0.010	<0.010	<0.010	<0.010	0.061	0.003 JQ	<0.020
nitrobenzene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
pentachlorophenol	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050
phenanthrene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
phenol	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
pyrene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020

Source: LAW, 1995

TA A-8

1995 ANALYTICAL DATA SUMMARY TABLE
GROUND-WATER SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-1	HMW-2	HMW-3	HMW-4	HMW-5	HMW-6	HMW-8	HMW-9
SAMPLE DATE:	07-Oct-95	07-Oct-95	06-Oct-95	06-Oct-95	06-Oct-95	06-Oct-95	08-Oct-95	08-Oct-95
PARAMETER/METHOD (units)								
TPH SW8015B/SW3510A (mg/L)								
Diesel/#2 Fuel	0.4	0.4	0.4	0.4	0.4	5.3	2.9	2
Gasoline	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Kerosene	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

DATA QUALIFICATION FLAGS/NOTES
J = Estimated quantitation based upon QC data
U = analyte not detected above detection limit
JB = Estimated quantitation: possibly biased high or a false positive based upon blank data
JH = Estimated quantitation: possible biased high based upon QC data
JL = Estimated quantitation: possible biased low or a false negative based upon QC data
R = Datum rejected based upon QC data - do not use
JQ = Estimated below PQL
( ) = Reporting Limits [ ] = Dilution Factor
ND = Not Detected NA = Not Applicable

Source: LAW, 1995

TABLE A-8
1995 ANALYTICAL DATA SUMMARY TABLE
GROUND-WATER SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-10	HMW-11	HMW-12	HMW-13
SAMPLE DATE:	09-Oct-95	08-Oct-95	08-Oct-95	09-Oct-95
PARAMETER/METHOD (units)				
Volatile Organics SW8240B/SW3510B				
1,1,1-Trichloroethane	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005	<0.005
2-Butanone	<0.010	<0.010	<0.010	<0.010
2-Chloroethyl Vinyl Ether	<0.010	<0.010	<0.010	<0.010
2-Hexanone	<0.010	<0.010	<0.010	<0.010
4-Methyl-2-pentanone	<0.010	<0.010	<0.010	<0.010
Acetone	0.007 JQ	<0.020	<0.020	0.021
Benzene	0.41	0.034	<0.005	1.2
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005
Carbon Disulfide	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	<0.005	<0.005	<0.005	<0.005
Chloroethane	<0.005	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005	<0.005
Chloromethane	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	0.059	0.022	<0.005	0.63
Methylene Chloride	<0.005	<0.005	<0.005	<0.005
Styrene	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene	<0.005	<0.005	<0.005	<0.005
Toluene	0.003 JQ	<0.005	<0.005	0.005
Trichloroethene	<0.005	<0.005	<0.005	<0.005
Vinyl Acetate	<0.010	<0.010	<0.010	<0.010
Vinyl Chloride	<0.005	<0.005	<0.005	<0.005

Source: LAW, 1995

TA A-8

1995 ANALYTICAL D. A SUMMARY TABLE

GROUND-WATER SAMPLES

Former Fire Training Area

Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-10	HMW-11	HMW-12	HMW-13
SAMPLE DATE:	09-Oct-95	08-Oct-95	08-Oct-95	09-Oct-95
PARAMETER/METHOD (units)				
Volatile Organics SW8240B/SW3510B				
Xylene (total)	0.18	0.81	<0.005	0.52
cis-1,2-Dichloroethene	0.002 JQ	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	<0.005	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene	<0.005	<0.005	<0.005	<0.005
trans-1,3-Dichloropropene	<0.005	<0.005	<0.005	<0.005
ICP Metals SW6010A/SW3005A (mg/				
Barium	0.079	0.047	0.058	0.131
Cadmium	0.01	0.01	0.01	0.01
Chromium	0.02	0.02	0.0145	0.046
Silver	0.02	0.02	0.02	0.02
Arsenic SW7060A/SW3020A (mg/L)				
Arsenic	0.0087	0.0068	0.013	0.03
Lead SW7421/SW3020A (mg/L)				
Lead	0.0053	0.0038	0.0048	0.0188
Mercury SW7470A (mg/L)				
Mercury	0.000061	0.000053	0.000099	0.000176
Selenium SW7740/SW3020A (mg/L)				
Selenium	0.005	0.005	0.0036	0.004
Semi-Volatile Organics SW3510B/827				
1,2,4-trichlorobenzene	<0.010	<0.010	<0.010	<0.010
1,2-dichlorobenzene	<0.010	<0.010	<0.010	<0.010
1,3-dichlorobenzene	<0.010	<0.010	<0.010	<0.010
1,4-dichlorobenzene	<0.010	<0.010	<0.010	<0.010
2,2'oxybis (1-chloropropane)	<0.010	<0.010	<0.010	<0.010
2,4,5-trichlorophenol	<0.010	<0.010	<0.010	<0.010

Source: LAW, 1995

TABLE A-8
1995 ANALYTICAL DATA SUMMARY TABLE
GROUND-WATER SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-10	HMW-11	HMW-12	HMW-13
SAMPLE DATE:	09-Oct-95	08-Oct-95	08-Oct-95	09-Oct-95
PARAMETER/METHOD (units)				
Semi-Volatile Organics SW3510B/827				
2,4,6-trichlorophenol	<0.010	<0.010	<0.010	<0.010
2,4-dichlorophenol	<0.010	<0.010	<0.010	<0.010
2,4-dimethylphenol	0.001 JQ	<0.010	<0.010	0.01
2,4-dinitrophenol	<0.025	<0.025	<0.025	<0.025
2,4-dinitrotoluene	<0.010	<0.010	<0.010	<0.010
2,6-dinitrotoluene	<0.010	<0.010	<0.010	<0.010
2-chloronaphthalene	<0.010	<0.010	<0.010	<0.010
2-chlorophenol	<0.010	<0.010	<0.010	<0.010
2-methylnaphthalene	<0.010	0.015	<0.010	0.055
2-methylphenol	<0.010	<0.010	<0.010	<0.010
2-nitroaniline	<0.010	<0.010	<0.010	<0.010
2-nitrophenol	<0.010	<0.010	<0.010	<0.010
3,3'-dichlorobenzidine	<0.020	<0.020	<0.020	<0.020
3-nitroaniline	<0.010	<0.010	<0.010	<0.010
4,6-dinitro-2-methylphenol	<0.025	<0.025	<0.025	<0.025
4-bromophenyl phenyl ether	<0.010	<0.010	<0.010	<0.010
4-chloro-3-methylphenol	<0.010	<0.010	<0.010	<0.010
4-chloroaniline	<0.010	<0.010	<0.010	<0.010
4-chlorophenyl phenyl ether	<0.010	<0.010	<0.010	<0.010
4-methylphenol	<0.010	<0.010	<0.010	<0.010
4-nitroaniline	<0.010	<0.010	<0.010	<0.010
4-nitrophenol	<0.025	<0.025	<0.025	<0.025
N-nitrosodi-n-propylamine	<0.010	<0.010	<0.010	<0.010
N-nitrosodiphenylamine	<0.010	<0.010	<0.010	<0.010
acenaphthene	<0.010	<0.010	<0.010	<0.010
acenaphthylene	<0.010	<0.010	<0.010	<0.010
anthracene	<0.010	<0.010	<0.010	<0.010
benzo (a) anthracene	<0.010	<0.010	<0.010	<0.010
benzo (a) pyrene	<0.010	<0.010	<0.010	<0.010
benzo (b) fluoranthene	<0.010	<0.010	<0.010	<0.010
benzo (ghi) perylene	<0.010	<0.010	<0.010	<0.010

Source: LAW, 1995

TA[illegible] A-8

1995 ANALYTICAL DATA SUMMARY TABLE
GROUND-WATER SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-10	HMW-11	HMW-12	HMW-13
SAMPLE DATE:	09-Oct-95	08-Oct-95	08-Oct-95	09-Oct-95
PARAMETER/METHOD (units)				
Semi-Volatile Organics SW3510B/827				
benzo (k) fluoranthene	<0.010	<0.010	<0.010	<0.010
benzoic acid	<0.050	<0.050	<0.050	<0.050
benzyl alcohol	<0.020	<0.020	<0.020	<0.020
bis (2-chloroethoxy) methane	<0.010	<0.010	<0.010	<0.010
bis (2-chloroethyl) ether	<0.010	<0.010	<0.010	<0.010
bis (2-ethylhexyl) phthalate	<0.010	<0.010	<0.010	0.003 JQ
butyl benzyl phthalate	<0.010	<0.010	<0.010	<0.010
chrysene	<0.010	<0.010	<0.010	<0.010
di-n-butyl phthalate	<0.010	<0.010	<0.010	0.001 JQ
di-n-octyl phthalate	<0.010	<0.010	<0.010	<0.010
dibenz (a,h) anthracene	<0.010	<0.010	<0.010	<0.010
dibenzofuran	<0.010	<0.010	<0.010	<0.010
diethyl phthalate	<0.010	<0.010	<0.010	<0.010
dimethyl phthalate	<0.010	<0.010	<0.010	<0.010
fluoranthene	<0.010	<0.010	<0.010	<0.010
fluorene	<0.010	<0.010	<0.010	<0.010
hexachlorobenzene	<0.010	<0.010	<0.010	<0.010
hexachlorobutadiene	<0.010	<0.010	<0.010	<0.010
hexachlorocyclopentadiene	<0.010	<0.010	<0.010	<0.010
hexachloroethane	<0.010	<0.010	<0.010	<0.010
indeno (1,2,3-cd) pyrene	<0.010	<0.010	<0.010	<0.010
isophorone	<0.010	<0.010	<0.010	<0.010
naphthalene	<0.010	0.042	<0.010	0.19
nitrobenzene	<0.010	<0.010	<0.010	<0.010
pentachlorophenol	<0.025	<0.025	<0.025	<0.025
phenanthrene	<0.010	<0.010	<0.010	<0.010
phenol	0.008 JQ	<0.010	<0.010	<0.010
pyrene	<0.010	<0.010	<0.010	<0.010

Source: LAW, 1995

TABLE A-8
1995 ANALYTICAL DATA SUMMARY TABLE
GROUND-WATER SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:	HMW-10	HMW-11	HMW-12	HMW-13
SAMPLE DATE:	09-Oct-95	08-Oct-95	08-Oct-95	09-Oct-95
PARAMETER/METHOD (units)				
TPH SW8015B/SW3510A (mg/L)				
Diesel/#2 Fuel	5	2	2	21
Gasoline	2	6	2	0.8
Kerosene	2	2	2	0.8

DATA QUALIFICATION FLAGS/NOT
J = Estimated quantitation based upon Q
U = analyte not detected above detection l
JB = Estimated quantitation: possibly bia
false positive based upon blank dat
JH = Estimated quantitation: possible bia
upon QC data
JL = Estimated quantitation: possible bia
false negative based upon QC data
R = Datum rejected based upon QC data
JQ = Estimated below PQL
( ) = Reporting Limits [ ] = Dilution Fact
ND = Not Detected NA = Not Applicabl

Source: LAW, 1995

TABLE A-9
1998 RESULTS OF GROUND-WATER
LONG TERM MONITORING SAMPLES
Medcalf and Eddy

TABLE A-9

1998 RESULTS OF GROUNDWATER LONG TERM MONITORING SAMPLES

Former Fire Training Area

Hunter Army Airfield, Savannah, Georgia

CONSTITUENT		SAMPLE LOCATION: FTAHMW-10 SAMPLE DATE: 11/5/98	FTAHMW-11 11/5/98	FTAHMW-13 11/5/98	FTAHMW-2 11/5/98	FTAHMW-4 11/5/98	FTAHMW-6 11/5/98	FTAHMW-8 11/5/98	FTAHMW-9 11/5/98
Acenaphthene	(mg/l)	**0.0014**	**0.0069**	<0.000302	<0.000302	<0.000302	<0.000302	<0.000302	<0.000302
Acenaphthylene	(mg/l)	**0.0012**	<0.000164	<0.000164	<0.000164	<0.000164	<0.000164	**1.5**	<0.000164
Anthracene	(mg/l)	<0.000097	0.00026	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097
Benzene	(mg/l)	**0.67**	**0.08**	**0.65**	<0.0005	**0.0071**	**0.082**	**0.09**	**0.041**
Benzo(a)anthracene	(mg/l)	<0.0000311	<0.0000311	**0.00016**	<0.0000311	<0.0000311	**0.000082**	**0.000064**	<0.0000311
Benzo(a)pyrene	(mg/l)	<0.0000311	0.000083	<0.0000311	<0.0000311	<0.0000311	**0.000089**	**0.000064**	**0.00013**
Benzo(b)fluoranthene	(mg/l)	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311
Benzo(ghi)perylene	(mg/l)	<0.000157	<0.000157	**0.00019**	<0.000157	<0.000157	<0.000157	<0.000157	<0.000157
Benzo(k)fluoranthene	(mg/l)	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311
Chlorobenzene	(mg/l)	<0.0025	<0.0025	<0.0025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Chrysene	(mg/l)	<0.0000311	0.00046	<0.0000311	<0.0000311	<0.0000311	**0.00019**	**0.00015**	<0.0000311
Dibenzo(a,h)anthracene	(mg/l)	<0.000031	<0.000031	<0.000031	<0.000031	<0.000031	<0.000031	<0.000031	<0.000031
Ethylbenzene	(mg/l)	**0.13**	**0.02**	**0.25**	<0.0005	<0.0005	**0.026**	**0.0034**	**0.0099**
Fluoranthene	(mg/l)	<0.000123	0.0024	<0.000123	<0.000123	<0.000123	**0.00025**	**0.0002**	<0.000123
Fluorene	(mg/l)	<0.000092	0.0017	<0.000092	<0.000092	<0.000092	<0.000092	<0.000092	<0.000092
Indeno(1,2,3-cd)pyrene	(mg/l)	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311	**0.000062**	**0.000049**	<0.0000311
m-Dichlorobenzene	(mg/l)	<0.00025	<0.0025	<0.0025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Naphthalene	(mg/l)	<0.000214	<0.000214	<0.000214	<0.000214	<0.000214	<0.000214	<0.000214	<0.000214
o-Dichlorobenzene	(mg/l)	<0.0025	<0.0025	<0.0025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Source: Medcalf Eddy, 1998

TABLE A-9
1998 RESULTS OF GROUNDWATER LONG TERM MONITORING SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

	SAMPLE LOCATION:	FTAHMW-10	FTAHMW-11	FTAHMW-13	FTAHMW-2	FTAHMW-4	FTAHMW-6	FTAHMW-8	FTAHMW-9
	SAMPLE DATE:	11/5/98	11/5/98	11/5/98	11/5/98	11/5/98	11/5/98	11/5/98	11/5/98
CONSTITUENT									
p-Dichlorobenzene	(mg/l)	<0.0025	<0.0025	<0.0025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Phenanthrene	(mg/l)	<0.000103	0.0028	**0.0019**	<0.000103	<0.000103	**0.00025**	<0.000103	<0.000103
Pyrene	(mg/l)	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	**0.00025**	<0.000107	<0.000107
Toluene	(mg/l)	<0.0025	<0.0025	<0.0025	<0.0005	<0.0005	**0.0037**	<0.0005	**0.75**
Xylene (total)	(mg/l)	**0.46**	**0.79**	**0.92**	<0.0010	<0.0010	<0.0010	<0.0010	**0.11**

Source: Metcalf Eddy, 1998

TABLE A-10
1999 RESULTS OF GROUND-WATER
LONG TERM MONITORING SAMPLES
Medcalf and Eddy

TABLE A-11
1999 DATA SUMMARY GROUND-WATER
LONG TERM MONITORING SAMPLES
SAIC

TABLE A-10

1999 RESULTS OF GROUNDWATER LONG TERM MONITORING SAMPLES

Former Fire Training Area

Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION:		FTAHMW-10	FTAHMW-11	FTAHMW-13	FTAHMW-2	FTAHMW-4	FTAHMW-6	FTAHMW-8	FTAHMW-9
SAMPLE DATE:		5/6/99	5/6/99	5/6/99	5/6/99	5/6/99	5/6/99	5/6/99	5/6/99
CONSTITUENT									
Acenaphthene	(mg/l)	<0.000302	**0.0037**	<0.000302	<0.000302	<0.000302	<0.000302	<0.000302	<0.000302
Acenaphthylene	(mg/l)	<0.000164	<0.000164	<0.000164	<0.000164	<0.000164	<0.000164	<0.000164	<0.000164
Anthracene	(mg/l)	<0000.097	<0000.097	<0000.097	<0000.097	<0000.097	<0000.097	<0000.097	<0000.097
Benzene	(mg/l)	**0.64**	0.130J	**0.48**	<0.0005	0.0032J	**0.053**	0.850J	<0.0005
Benzo(a)anthracene	(mg/l)	<0.0000311	0.00016	<0.0000311	<0.0000311	<0.0000311	**0.000066**	<0.0000311	<0.0000311
Benzo(a)pyrene	(mg/l)	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311	**0.00031**	<0.0000311	<0.0000311
Benzo(b)fluoranthene	(mg/l)	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311	**0.00018**	**0.00026**
Benzo(ghi)perylene	(mg/l)	<0.000157	<0.000157	<0.000157	<0.000157	<0.000157	<0.000157	<0.000157	<0.000157
Benzo(k)fluoranthene	(mg/l)	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311	**0.00012**	<0.0000311	<0.0000311
Chlorobenzene	(mg/l)	<0.0050	<0.0025	<0.0050	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Chrysene	(mg/l)	<0.0000311	0.00045	<0.0000311	<0.0000311	<0.0000311	**0.00013**	<0.0000311	<0.0000311
Dibenzo(a,h)anthracene	(mg/l)	<0.000031	<0.000031	<0.000031	<0.000031	<0.000031	<0.000031	<0.000031	<0.000031
Ethylbenzene	(mg/l)	**0.098**	0.013J	**0.16**	<0.0005	<0.0005	**0.011**	**0.038**	<0.0005
Fluoranthene	(mg/l)	<0.000123	<0.000123	<0.000123	<0.000123	<0.000123	**0.00038**	<0.000123	<0.000123
Fluorene	(mg/l)	<0.000092	**0.0025**	<0.000092	<0.000092	<0.000092	<0.000092	<0.000092	<0.000092
Indeno(1,2,3-cd)pyrene	(mg/l)	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311	<0.0000311
m-Dichlorobenzene	(mg/l)	<0.005	<0.0025	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Naphthalene	(mg/l)	0.0023J	<0.000214	<0.000214	<0.000214	<0.000214	<0.000214	0.0034J	<0.000214
o-Dichlorobenzene	(mg/l)	<0.005	<0.0025	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Source: Medcalf Eddy, 1999

TABLE A-10
1999 RESULTS OF GROUNDWATER LONG TERM MONITORING SAMPLES
Former Fire Training Area
Hunter Army Airfield, Savannah, Georgia

CONSTITUENT	SAMPLE LOCATION: / SAMPLE DATE:	FTAHMW-10 5/6/99	FTAHMW-11 5/6/99	FTAHMW-13 5/6/99	FTAHMW-2 5/6/99	FTAHMW-4 5/6/99	FTAHMW-6 5/6/99	FTAHMW-8 5/6/99	FTAHMW-9 5/6/99
p-Dichlorobenzene	(mg/l)	<0.005	<0.0025	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Phenanthrene	(mg/l)	<0.000103	0.0016J	<0.000103	<0.000103	<0.000103	**0.00018**	<0.000103	<0.000103
Pyrene	(mg/l)	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	**0.00023**	<0.000107	<0.000107
Toluene	(mg/l)	<0.005	<0.0025	<0.005	<0.0005	<0.0005	**0.0016**	**0.0006**	<0.0005
Xylene (total)	(mg/l)	**0.51**	0.340J	**0.31**	<0.001	<0.001	**0.0013**	**0.0046**	<0.001

Source: Golf Eddy, 1999

TABLE A-11
1999 DATA SUMMARY GROUND-WATER
LONG TERM MONITORING SAMPLES
SAIC

TABLE A-11
1999 RESULTS OF GROUND-WATER
LONG TERM MONITORING SAMPLING
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION	HMW-2	HMW-4	HMW-4 Duplicate	HMW-6	HMW-8	HMW-9	HMW-10	HMW-11	HMW-13	HMW-13 Duplicate
SAMPLE DATE:	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999
PARAMETER/METHOD (units)										
Semi-Volatile Organics SW8270B/SW8270C (mg/L)										
1,2,4-trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'oxybis (1-chloropropane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dimethylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dinitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	<0.0106	<0.0103	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	<0.0102	<0.01	<0.0102
2-chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-chloro-3-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-nitrosodi-n-propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	<0.0106	<0.0103	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	<0.0102	<0.01	<0.0102
acenaphthylene	<0.0106	<0.0103	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	<0.0102	<0.01	<0.0102
anthracene	<0.0106	<0.0103	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	<0.0102	<0.01	<0.0102
benzo (a) anthracene	<0.0106	<0.0103	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	<0.0102	<0.01	<0.0102
benzo (a) pyrene	<0.0106	<0.0103	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	<0.0102	<0.01	<0.0102
benzo (b) fluoranthene	<0.0106	<0.0103	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	<0.0102	<0.01	<0.0102
benzo (ghi) perylene	<0.0106	<0.0103	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	<0.0102	<0.01	<0.0102

Source: SAIC

TABLE A-11
1999 RESULTS OF GROUND-WATER
LONG TERM MONITORING SAMPLING
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION	HMW-2	HMW-4	HMW-4 Duplicate	HMW-6	HMW-8	HMW-9	HMW-10	HMW-11	HMW-13	HMW-13 Duplicate
SAMPLE DATE:	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999
PARAMETER/METHOD (units)										
Volatile Organics SW8240B/SW8260B (mg/L)										
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroethyl Vinyl Ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	<0.002	<0.002	<0.002	**0.0842**	<0.002	<0.002	**0.104**	**0.039**	**0.322**	**0.271**
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	<0.002	<0.002	<0.002	**0.0224**	<0.002	<0.002	0.0017 JQ	**0.0057**	**0.0864**	**0.0866**
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	<0.002	<0.002	<0.002	0.0014 JQ	<0.002	<0.002	0.00062 JQ	0.0007 JQ	0.0012 JQ	0.0013 JQ
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	<0.006	0.0039 JQ	<0.006	0.0041 JQ	<0.006	<0.006	**0.0462**	**0.378**	**0.276**	**0.182**
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Source:

TABLE A-11
1999 RESULTS OF GROUND-WATER
LONG TERM MONITORING SAMPLING
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION	HMW-2	HMW-4	HMW-4 Duplicate	HMW-6	HMW-8	HMW-9	HMW-10	HMW-11	HMW-13	HMW-13 Duplicate
SAMPLE DATE:	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999
PARAMETER/METHOD (units)										
Lead SW7421(mg/L)										
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury SW7470A (mg/L)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium SW7740 (mg/L)										
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH SW8015B (mg/L)										
Diesel/#2 Fuel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kerosene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

DATA QUALIFICATION FLAGS/NOTES:
J = Estimated quantitation based upon QC data
< = Analyte not detected above detection limit
JB = Estimated quantitation: possibly biased high or a false positive based upon blank data
JH = Estimated quantitation: possible biased high based upon QC data
JL = Estimated quantitation: possible biased low or a false negative based upon QC data
R = Datum rejected based upon QC data - do not use
JQ = Estimated quantitation; value below PQL
NA = Not Applicable
ND = Not Detected

Source: S[illegible]

TABLE A-11
1999 RESULTS OF GROUND-WATER
LONG TERM MONITORING SAMPLING
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION	HMW-2	HMW-4	HMW-4 Duplicate	HMW-6	HMW-8	HMW-9	HMW-10	HMW-11	HMW-13	HMW-13 Duplicate
SAMPLE DATE:	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999
PARAMETER/METHOD (units)										

Source: SAIC

TABLE A-11
1999 RESULTS OF GROUND-WATER
LONG TERM MONITORING SAMPLING
Hunter Army Airfield, Savannah, Georgia

SAMPLE LOCATION	HMW-2	HMW-4	HMW-4 Duplicate	HMW-6	HMW-8	HMW-9	HMW-10	HMW-11	HMW-13	HMW-13 Duplicate
SAMPLE DATE:	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999	7/12/1999
PARAMETER/METHOD (units)										
Semi-Volatile Organics SW8270B/SW8270C (mg/L)										
benzo (k) fluoranthene	<0.0106	**0.0103**	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	<0.0102	<0.01	<0.0102
benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis (2-chloroethoxy) methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis (2-chloroethyl) ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis (2-ethylhexyl) phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chrysene	<0.0106	<0.0103	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	<0.0102	<0.01	<0.0102
di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-octyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenz (a,h) anthracene	<0.0106	<0.0103	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	<0.0102	<0.01	<0.0102
dibenzofuran	NA	**0.0103**	<0.0104	NA	NA	NA	NA	NA	NA	NA
diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	<0.0106	<0.0103	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	<0.0102	<0.01	<0.0102
fluorene	<0.0106	<0.0103	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	0.00082 JQ	<0.01	<0.0102
hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
indeno (1,2,3-cd) pyrene	<0.0106	<0.0103	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	<0.0102	<0.01	<0.0102
isophorone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
naphthalene	<0.0106	<0.0103	<0.0104	**0.0747**	<0.01	<0.0108	<0.0103	**0.0348**	**0.121**	**0.121**
nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	<0.0106	<0.0103	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	<0.0102	<0.01	<0.0102
phenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pyrene	<0.0106	<0.0103	<0.0104	<0.0102	<0.01	<0.0108	<0.0103	<0.0102	<0.01	<0.0102
ICP Metals SW6010A/SW6010B (mg/L)										
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
						NA				
Arsenic SW7060A (mg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Source:

APPENDIX B

Summary of Source Removal Activities

Summary of Source Removal Activities – Former FTA

Omega Environmental Services with subcontractor Geosciences, Inc., conducted soil remediation activities at the FTA located at Hunter Army Airfield from November 1997 to March 1998. The soil remediation activities included the decontamination and removal of the simulated aircraft structure, aboveground storage tanks, fuel transmission lines, concrete pad, and sump pit structure. Soils, free-phase product, and wastewater were removed from the area and transported to off-site disposal facilities. The horizontal limits of the excavation are shown on Figure 3 (page B-13) and the depth of the excavation ranged from 5 to approximately 8 feet below ground surface. The remediation generated 9,430 tons of contaminated soils, 233 tons of demolished concrete debris, and 81,906 gallons of wastewater. A total of 27 confirmation soil samples were collected from the side walls and floor of the excavation and analyzed for RCRA metals; benzene, toluene, ethylbenzene, xylenes (BTEX); organochlorine pesticides, polychlorinated biphenyls (PCBs) and total petroleum hydrocarbons (TPH). Contaminated soils were excavated to a depth and lateral extent where the constituent concentrations were less than the HSRA Notification Concentrations. The confirmation soil samples indicated that constituents were still present in the soils beneath the excavation. *Soil Remedial Action Report*, dated December 1998 presents the soil remediation activities in detail. Maps of the excavation and confirmation soil sampling locations along with a summary of the laboratory analytical data of the confirmation samples is provided in the following appendix.

Table 1: Results of Confirmatory Soil Sampling Conducted at HAAF Fire Training Area (HAA-01)

Sample ID:	Screening Limits		EW-E6-a	EW-E6-b	EB-E6	EW-E7-a	EB-E7	EW-E8-a	EW-E8-b
Media	HSRA	TCLP	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Type:	Threshold Levels	Hazardous Levels	grab	grab	grab	grab	grab	grab	grab
Collection Date:			02/26/98	02/26/98	02/26/98	02/26/98	02/26/98	02/26/98	02/26/98
Sample Depth in Feet:			3.5	3.67	6.54	3.5	6.95	3	3.17
Units	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
VOCs/PETROLEUM HYDROCARBONS									
Benzene Result	0.02		*0.13(J)*	*0.029*	BDL	*1.2*	*0.19(J)*	*0.013(J)*	BDL
Benzene Detection Limit			0.25	0.025	0.005	0.5	0.5	0.025	0.005
Ethylbenzene	20		8	0.41	BDL	*47*	7.7	0.031	BDL
Toluene	14.4		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Xylenes	20		*20*	0.13	BDL	*150*	8.2	0.1	BDL
TPH	*		1500	11	BDL	4300	920	BDL	BDL
RCRA METALS									
Barium	500		12	12	14	15	10	11	13
Cadmium	39		1.3	1.2	BDL	BDL	BDL	BDL	BDL
Chromium	1200		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead	300		15	22	BDL	6.2	BDL	BDL	BDL
PAHs									
1-Methylnaphathalene	**		7.8	BDL	BDL	21	6.9	BDL	BDL
2-Methylnaphathalene	**		11	BDL	BDL	31	9.6	BDL	BDL
Naphthalene	100		4.9	BDL	BDL	17	3.9	BDL	BDL
Phenanthrene	110		BDL	BDL	BDL	BDL	BDL	BDL	BDL
PCBs/PESTICIDES									
PCB-1254	1.55		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin	0.66		BDL	BDL	BDL	BDL	BDL	BDL	BDL
4,4-DDD	0.66		BDL	BDL	BDL	BDL	BDL	BDL	BDL
4,4-DDE	0.66		BDL	BDL	BDL	BDL	BDL	BDL	BDL
TCLP METALS (mg/L)									
Barium		100	BDL	1	BDL	BDL	BDL	BDL	BDL

Table [illegible] Results of Confirmatory Soil Sampling Co[illegible]ucted at HAAF Fire Training Area (HAA[illegible])

Sample ID:	Screening Limits		EB-E8	EW-F5	EB-F5	EB-F5-X	EB-F6	EB-F7	EB-F8
Media	HSRA	TCLP	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Type:	Threshold Levels	Hazardous Levels	grab	grab	grab	grab	grab	grab	grab
Collection Date:			02/26/98	02/26/98	02/26/98	02/26/98	02/26/98	02/26/98	02/26/98
Sample Depth in Feet:			5.8	3.07	6.64	6.64	8.32	7.7	6.04
Units	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
VOCs/PETROLEUM HYDROCARBONS									
Benzene Result	0.02		*0.12(J)*	0.013(J)	0.014(J)	*0.14(J)*	*0.17(J)*	*1.4*	*1.4(J)*
Benzene Detection Limit			0.25	0.025	0.025	0.25	0.5	0.5	2.5
Ethylbenzene	20		3.3	BDL	BDL	BDL	0.57	*20*	18
Toluene	14.4		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Xylenes	20		9.5	BDL	0.064	4.6	*22*	11	*62*
TPH	*		2000	BDL	62	35	820	3100	1100
RCRA METALS									
Barium	500		11	10	11	11	11	10	13
Cadmium	39		0.6	0.9	BDL	BDL	BDL	0.9	BDL
Chromium	1200		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead	300		15	18	BDL	5.5	BDL	23	7.2
PAHs									
1-Methylnaphathalene	**		13	BDL	0.48	BDL	5	15	5.5
2-Methylnaphathalene	**		5.8	BDL	BDL	BDL	6.9	25	BDL
Naphthalene	100		BDL	BDL	BDL	BDL	2.5	14	BDL
Phenanthrene	110		BDL	BDL	BDL	BDL	BDL	BDL	BDL
PCBs/PESTICIDES									
PCB-1254	1.55		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin	0.66		BDL	BDL	BDL	BDL	BDL	BDL	BDL
4,4-DDD	0.66		BDL	BDL	BDL	BDL	BDL	BDL	BDL
4,4-DDE	0.66		BDL	BDL	BDL	BDL	BDL	BDL	BDL
TCLP METALS (mg/L)									
Barium		100	1.1	1.2	1	1.1	BDL	BDL	BDL

Table 1: Results of Confirmatory Soil Sampling Conducted at HAAF Fire Training Area (HAA-01)

Sample ID:	Screening Limits		EW-G5-a	EW-G5-b	EB-G5	EB-G6	EB-G7	EB-G8	EB-G8-X
Media	HSRA	TCLP	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Type:	Threshold Levels	Hazardous Levels	grab	grab	grab	grab	grab	grab	grab
Collection Date:			02/26/98	02/26/98	02/26/98	02/26/98	02/26/98	02/26/98	02/26/98
Sample Depth in Feet:			2.78	2.66	6.35	5.77	6.26	5.5	5.5
Units	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
VOCs/PETROLEUM HYDROCARBONS									
Benzene Result	0.02		0.0028(J)	0.0078	BDL	*0.4(J)*	BDL	*0.47(J)*	*0.68*
Benzene Detection Limit			0.005	0.005	0.025	0.5	1.3	1.3	0.5
Ethylbenzene	20		0.011	0.021	BDL	6.7	1.3	10	6
Toluene	14.4		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Xylenes	20		0.021	BDL	BDL	12	*39*	4.8	1.8
TPH	*		BDL	16	12	620	1700	2100	2100
RCRA METALS									
Barium	500		9.5	10	8.1	9.7	11	13	13
Cadmium	39		BDL	1	0.6	0.6	BDL	BDL	BDL
Chromium	1200		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead	300		BDL	16	BDL	15	12	BDL	BDL
PAHs									
1-Methylnaphathalene	**		BDL	BDL	BDL	6.2	10	10	7.6
2-Methylnaphathalene	**		BDL	BDL	BDL	9.2	15	9.5	3.6
Naphthalene	100		BDL	BDL	BDL	4.8	7.4	BDL	BDL
Phenanthrene	110		BDL	BDL	BDL	BDL	BDL	BDL	BDL
PCBs/PESTICIDES									
PCB-1254	1.55		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin	0.66		BDL	BDL	BDL	BDL	BDL	BDL	BDL
4,4-DDD	0.66		BDL	BDL	BDL	BDL	BDL	BDL	BDL
4,4-DDE	0.66		BDL	BDL	BDL	BDL	BDL	BDL	BDL
TCLP METALS (mg/L)									
Barium		100	1	1.1	BDL	1.1	BDL	1.1	BDL

B-4

Table 1: Results of Confirmatory Soil Sampling Conducted at HAAF Fire Training Area (HA-A-01)

Sample ID:	Screening Limits		EB-H5	EB-H6	EB-H7	EB-H8	EB-I5	EB-I5-X	EB-I6
Media	HSRA	TCLP	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Type:	Threshold Levels	Hazardous Levels	grab	grab	grab	grab	grab	grab	grab
Collection Date:			02/26/98	02/26/98	02/26/98	02/26/98	02/26/98	02/26/98	02/26/98
Sample Depth in Feet:			5.43	5.67	6.15	6.04	5.26	5.26	5.87
Units	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
VOCs/PETROLEUM HYDROCARBONS									
Benzene Result	0.02		*1.1(J)*	*0.96(J)*	*0.43(J)*	BDL	BDL	BDL	BDL
Benzene Detection Limit			2.5	2.5	0.5	2.5	0.005	0.005	2.5
Ethylbenzene	20		19	12	9	9	BDL	BDL	BDL
Toluene	14.4		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Xylenes	20		***25***	16	9.3	***38***	BDL	BDL	***29***
TPH	*		1900	1600	1200	990	BDL	BDL	6500
RCRA METALS									
Barium	500		6.5	10	14	15	6.8	6.8	11
Cadmium	39		0.9	BDL	BDL	1	BDL	0.9	BDL
Chromium	1200		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead	300		16	BDL	BDL	20	BDL	13	BDL
PAHs									
1-Methylnaphathalene	**		8.6	8.3	6.4	5.5	BDL	BDL	30
2-Methylnaphathalene	**		12	11	8.7	7.5	BDL	BDL	39
Naphthalene	100		8.4	4.5	5.5	4.5	BDL	BDL	14
Phenanthrene	110		BDL	BDL	BDL	BDL	BDL	BDL	BDL
PCBs/PESTICIDES									
PCB-1254	1.55		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin	0.66		BDL	BDL	BDL	BDL	BDL	BDL	BDL
4,4-DDD	0.66		BDL	BDL	BDL	BDL	BDL	BDL	BDL
4,4-DDE	0.66		BDL	BDL	BDL	BDL	BDL	BDL	BDL
TCLP METALS (mg/L)									
Barium		100	BDL	BDL	BDL	BDL	BDL	BDL	BDL

B-5

Table 1: Results of Confirmatory Soil Sampling Conducted at HAAF Fire Training Area (HAA-01)

Sample ID:	Screening Limits		EB-I7	EB-I8	EW-H4	EW-I4-a	EW-I4-b	EB-L8	EW-L8-b
Media	HSRA	TCLP	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Type:	Threshold Levels	Hazardous Levels	grab	grab	grab	grab	grab	grab	grab
Collection Date:			02/26/98	02/26/98	03/03/98	03/03/98	03/03/98	03/03/98	03/03/98
Sample Depth in Feet:			6.11	6.29	3.16	2.58	2.67	7.59	3.8
Units	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
VOCs/PETROLEUM HYDROCARBONS									
Benzene Result	0.02		*0.56(J)*	BDL	BDL	BDL	BDL	BDL	***2.9***
Benzene Detection Limit			2.5	2.5	0.01	1	0.005	2.5	1.3
Ethylbenzene	20		13	5.1	BDL	BDL	BDL	11	***23***
Toluene	14.4		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Xylenes	20		***34***	BDL	BDL	BDL	BDL	***51***	***100***
TPH	*		2200	840	BDL	1504	BDL	4000	13,000
RCRA METALS									
Barium	500		8.1	9.4	7.8	7.1	9.2	10	12
Cadmium	39		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium	1200		BDL	BDL	BDL	BDL	9.4	BDL	BDL
Lead	300		BDL	BDL	5.6	8.9	5.1	BDL	11
PAHs									
1-Methylnaphathalene	**		11	5.2	BDL	7.7	BDL	11	40
2-Methylnaphathalene	**		15	7.2	BDL	11	BDL	16	50
Naphthalene	100		10	4.4	BDL	8.4	BDL	9.5	BDL
Phenanthrene	110		BDL	BDL	BDL	BDL	BDL	BDL	BDL
PCBs/PESTICIDES									
PCB-1254	1.55		BDL	BDL	BDL	BDL	BDL	BDL	0.081
Dieldrin	0.66		BDL	BDL	BDL	BDL	BDL	BDL	BDL
4,4-DDD	0.66		BDL	BDL	0.0076	0.0043	0.0085	BDL	BDL
4,4-DDE	0.66		BDL	BDL	0.0075	0.0032	0.0064	BDL	BDL
TCLP METALS (mg/L)									
Barium		100	BDL	BDL	BDL	BDL	BDL	BDL	BDL

B-6

Table 1 Results of Confirmatory Soil Sampling Conducted at HAAF Fire Training Area (HAAF-1)

Sample ID:	Screening Limits		EW-L8-a	EB-L7	EW-L7	EB-L6	EW-L6	EW-L6-X	EB-L5
Media	HSRA	TCLP	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Type:	Threshold Levels	Hazardous Levels	grab	grab	grab	grab	grab	grab	grab
Collection Date:			03/03/98	03/03/98	03/03/98	03/03/98	03/03/98	03/03/98	03/03/98
Sample Depth in Feet:			3.32	7.28	3.31	7.78	3.42	3.42	5.43
Units	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
VOCs/PETROLEUM HYDROCARBONS									
Benzene Result	0.02		BDL	***5***	0.0059	***2.5***	BDL	BDL	***1.2***
Benzene Detection Limit			0.005	1.3	0.005	1.3	0.005	0.005	0.25
Ethylbenzene	20		BDL	***37***	BDL	***23***	BDL	BDL	9.4
Toluene	14.4		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Xylenes	20		BDL	***29***	BDL	2.3	BDL	BDL	0.96
TPH	*		1400	8900	BDL	2800	BDL	BDL	12,000
RCRA METALS									
Barium	500		14	13	9.4	11	10	13	9.9
Cadmium	39		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium	1200		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead	300		BDL	16	BDL	BDL	BDL	BDL	9.7
PAHs									
1-Methylnaphathalene	**		BDL	15	BDL	7.2	BDL	BDL	35
2-Methylnaphathalene	**		BDL	21	BDL	11	BDL	BDL	47
Naphthalene	100		BDL	14	BDL	7.3	BDL	BDL	36
Phenanthrene	110		BDL	BDL	BDL	0.55	BDL	BDL	BDL
PCBs/PESTICIDES									
PCB-1254	1.55		BDL	0.026	BDL	BDL	BDL	BDL	BDL
Dieldrin	0.66		BDL	BDL	BDL	BDL	BDL	BDL	BDL
4,4-DDD	0.66		BDL	BDL	BDL	BDL	BDL	BDL	0.015
4,4-DDE	0.66		BDL	BDL	BDL	BDL	BDL	BDL	0.024
TCLP METALS (mg/L)									
Barium		100	BDL	BDL	BDL	BDL	BDL	BDL	1.1

B-7

Table 1: Results of Confirmatory Soil Sampling Conducted at HAAF Fire Training Area (HAA-01)

Sample ID:	Screening Limits		EW-L5-b	EW-L5-a	EW-L4	EB-K8	EB-K7	EB-K6	EB-K5
Media	HSRA	TCLP	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Type:	Threshold Levels	Hazardous Levels	grab	grab	grab	grab	grab	grab	grab
Collection Date:			03/03/98	03/03/98	03/03/98	03/03/98	03/03/98	03/03/98	03/03/98
Sample Depth in Feet:			2.49	2.59	2.29	7.05	8.11	8.25	4.94
Units	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
VOCs/PETROLEUM HYDROCARBONS									
Benzene Result	0.02		*0.06(J)*	*0.45*	*0.1(J)*	*1.4*	*6.9*	*1.3*	*0.089(J)*
Benzene Detection Limit			0.25	0.25	0.25	0.25	0.25	0.25	0.25
Ethylbenzene	20		BDL	1.5	BDL	12	*47*	13	BDL
Toluene	14.4		BDL	BDL	BDL	BDL	*32*	0.37	BDL
Xylenes	20		BDL	BDL	BDL	*44*	*230*	13	BDL
TPH	*		25	2800	11,000	1800	8000	2100	1400
RCRA METALS									
Barium	500		11	12	8.9	11	18	14	11
Cadmium	39		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium	1200		BDL	BDL	BDL	BDL	BDL	BDL	5.8
Lead	300		BDL	16	10	BDL	7.8	BDL	11
PAHs									
1-Methylnaphathalene	**		BDL	15	8.2	6.9	20	10	BDL
2-Methylnaphathalene	**		BDL	BDL	BDL	5.4	26	BDL	BDL
Naphthalene	100		BDL	BDL	BDL	BDL	8.2	BDL	11
Phenanthrene	110		BDL	BDL	BDL	BDL	BDL	BDL	BDL
PCBs/PESTICIDES									
PCB-1254	1.55		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin	0.66		0.01	BDL	BDL	BDL	BDL	BDL	BDL
4,4-DDD	0.66		BDL	0.0062	0.012	BDL	BDL	BDL	0.0085
4,4-DDE	0.66		BDL	0.0095	0.012	BDL	BDL	BDL	0.019
TCLP METALS (mg/L)									
Barium		100	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Table 1 Results of Confirmatory Soil Sampling Conducted at HAAF Fire Training Area (HAA-)

Sample ID:	Screening Limits		EB-K4	EW-K4	EW-K4-X	EB-H4	EB-I4	EB-J8	EB-J7
Media	HSRA	TCLP	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Type:	Threshold Levels	Hazardous Levels	grab	grab	grab	grab	grab	grab	grab
Collection Date:			03/03/98	03/03/98	03/03/98	03/03/98	03/03/98	03/03/98	03/03/98
Sample Depth in Feet:			5.68	2.5	2.5	5.5	6.18	7.32	8.33
Units	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
VOCs/PETROLEUM HYDROCARBONS									
Benzene Result	0.02		*0.93*	BDL	BDL	BDL	BDL	*1.3*	*3.4*
Benzene Detection Limit			0.5	0.025	0.025	0.01	0.005	1.3	1.3
Ethylbenzene	20		13	BDL	BDL	BDL	BDL	13	*26*
Toluene	14.4		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Xylenes	20		BDL	BDL	BDL	BDL	BDL	BDL	1.4
TPH	*		3700	290	69	19	BDL	1600	4400
RCRA METALS									
Barium	500		15	8.1	15	7.8	7.2	21	13
Cadmium	39		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium	1200		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead	300		49	16	53	BDL	BDL	BDL	6.4
PAHs									
1-Methylnaphathalene	**		26	BDL	BDL	BDL	BDL	2.4	9.5
2-Methylnaphathalene	**		22	BDL	BDL	BDL	BDL	0.56	8.1
Naphthalene	100		11	BDL	BDL	BDL	BDL	BDL	BDL
Phenanthrene	110		BDL	BDL	BDL	BDL	BDL	0.4	BDL
PCBs/PESTICIDES									
PCB-1254	1.55		BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin	0.66		BDL	BDL	BDL	BDL	BDL	BDL	BDL
4,4-DDD	0.66		BDL	0.0035	0.0042	BDL	BDL	BDL	BDL
4,4-DDE	0.66		0.0045	BDL	BDL	BDL	BDL	BDL	BDL
TCLP METALS (mg/L)									
Barium		100	BDL	BDL	BDL	BDL	BDL	BDL	BDL

B-9

Table 1: Results of Confirmatory Soil Sampling Conducted at HAAF Fire Training Area (HAA-01)

Sample ID:	Screening Limits		EB-J6	EB-J5	EB-J4	EW-J4	EB-E7-S-QA
Media	HSRA	TCLP	Soil	Soil	Soil	Soil	Soil
Sample Type:	Threshold Levels	Hazardous Levels	grab	grab	grab	grab	grab
Collection Date:			03/03/98	03/03/98	03/03/98	03/03/98	02/26/98
Sample Depth in Feet:			7.89	5.41	6.1	3.05	6.95
Units	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
VOCs/PETROLEUM HYDROCARBONS							
Benzene Result	0.02		***3.9***	0.016	0.01	BDL	NA
Benzene Detection Limit			1.3	0.005	0.005	0.005	NA
Ethylbenzene	20		***32***	BDL	BDL	BDL	NA
Toluene	14.4		BDL	BDL	BDL	BDL	NA
Xylenes	20		***28***	BDL	BDL	BDL	NA
TPH	*		7200	36	13	10	2590
RCRA METALS							
Barium	500		13	7.9	10	9.4	NA
Cadmium	39		BDL	BDL	BDL	BDL	NA
Chromium	1200		BDL	BDL	BDL	BDL	NA
Lead	300		6.3	5.8	10	BDL	NA
PAHs							
1-Methylnaphathalene	**		25	BDL	BDL	BDL	NA
2-Methylnaphathalene	**		27	BDL	BDL	BDL	NA
Naphthalene	100		11	BDL	BDL	BDL	NA
Phenanthrene	110		BDL	BDL	BDL	BDL	NA
PCBs/PESTICIDES							
PCB-1254	1.55		BDL	BDL	BDL	BDL	NA
Dieldrin	0.66		BDL	BDL	BDL	BDL	NA
4,4-DDD	0.66		BDL	0.009	0.0063	0.011	NA
4,4-DDE	0.66		BDL	0.015	BDL	0.0043	NA
TCLP METALS (mg/L)							
Barium		100	BDL	BDL	BDL	BDL	NA

B-10

Table 1 - Results of Confirmatory Soil Sampling Conducted at HAAF Fire Training Area (HAA-01)

Sample ID:	Screening Limits		EB-J6-S-QA
Media	HSRA	TCLP	Soil
Sample Type:	Threshold Levels	Hazardous Levels	grab
Collection Date:			03/03/98
Sample Depth in Feet:			7.89
Units	mg/kg	mg/L	mg/kg
VOCs/PETROLEUM HYDROCARBONS			
Benzene Result	0.02		NA
Benzene Detection Limit			NA
Ethylbenzene	20		NA
Toluene	14.4		NA
Xylenes	20		NA
TPH	*		10,700
RCRA METALS			
Barium	500		NA
Cadmium	39		NA
Chromium	1200		NA
Lead	300		NA
PAHs			
1-Methylnaphathalene	**		NA
2-Methylnaphathalene	**		NA
Naphthalene	100		NA
Phenanthrene	110		NA
PCBs/PESTICIDES			
PCB-1254	1.55		NA
Dieldrin	0.66		NA
4,4-DDD	0.66		NA
4,4-DDE	0.66		NA
TCLP METALS (mg/L)			
Barium		100	NA

B-11

Footnotes:

BDL -- Below Detection Limit
VOC -- Volatile Organic Compound
RCRA -- Resource Conservation and Recovery Act
PAH -- Polynuclear Aromatic Hydrocarbon
PCB -- Polychlorinated Biphenyl
HSRA -- Hazardous Site Response Act
TCLP -- Toxicity Characteristic Leaching Procedure, 40 CFR sec. 260
NA -- Not Analyzed

"J" flagged benzene values that have been reported for this project were calculated for benzene hits below the reporting limit. When benzene was present, this value was multiplied by the appropriate correction factor, taking into account the weight of the sample analyzed and the dilution factor.

HSRA Thresholds correspond to levels presented in "Regulated Substances and Soil Concentrations that Trigger Notification," Appendix I of Georgia's Rules for Hazardous Site Response, Chapter 391-3-19. Results exceeding HSRA Thresholds are present in bold and italicized print in Table 1.

TCLP Hazardous Levels correspond to the maximum regulatory level for concentrations of contaminants using the TCLP Method presented in 40 CFR sec. 261.24.

*HSRA does not list a specific regulatory limit or threshold for TPH. However, the Georgia Environmental Protection Division (EPD) sometimes requires analytical testing of groundwater if TPH in soil is not vertically delineated to BDL above the groundwater table. Also, EPD considers a TPH result greater than 10,000 mg/kg as indicative of free product.

**HSRA does not list specific regulatory limits for these constituents. However, releases of these constituents may be regulated by HSRA or EPD on a case-by-case basis under broader authorities of Georgia's Rules and Regulations for Water Quality Control, Chapter 391-3-6, or other EPD Programs.

The confirmatory soil samples presented in Table 1 were submitted to the primary lab in six shipments (approximately 10 to 15 samples per shipping cooler). Each of the six shipping coolers contained one trip blank and one Quality Control (QC) sample. The trip blank laboratory reports were all BDL. The QC samples were designated with an "X" after the respective duplicate/split sample identification (i.e., EB-F5 and EB-F5-X). Other duplicate/split samples were submitted as Quality Assurance (QA) samples to the U.S. Army Corps of Engineers laboratory. The QA samples were designated with a "QA" after the respective duplicate/split sample identification (i.e., EB-E7 and EB-E7-S-QA).

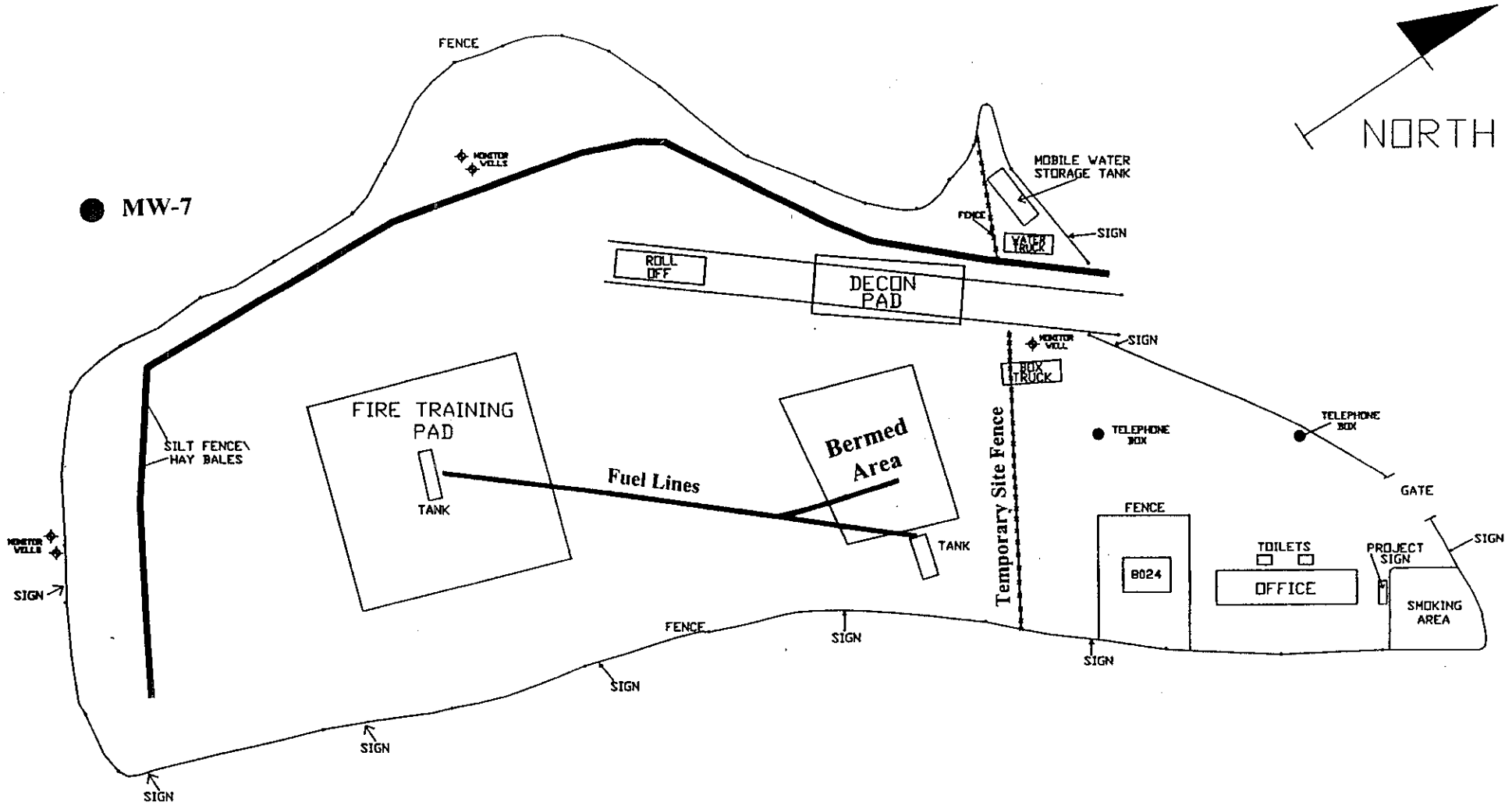

Figure 3
Site Map (Prior to Soil RA being conducted)
HAAF Fire Training Area (HAA-01)
HAAF, Georgia
Contract No. DACA21-97-C-0042

Geosciences inc.

APPENDIX C

CSR Field Procedures
C-1: Field Sampling Reports
C-2: Well Development Photographs

CSR Field Procedures

APPENDIX C

C1.0 SOIL BORING AND WELL CONSTRUCTION PROCEDURES

The procedures used to advance the soil borings, install the temporary piezometers, and install and develop the monitoring wells at the former FTA at HAAF are described below.

C1.1 SOIL BORINGS

Soil borings were advanced using Geoprobe®, hand auger, and standard soil penetration testing procedures. These procedures are described below.

C1.1.1 Geoprobe® Procedures

Twenty-nine soil borings were advanced and samples were collected using a Geoprobe® sampling device. Soil samples were collected in four-foot intervals beginning at the ground surface, as shown on Tables 3.1 and 3.2. Sampling continued until ground water was encountered. The soil samples were logged in the field in accordance with the Unified Soil Classification System (USCS). Soil borings were filled with bentonite/cement grout or bentonite chips upon completion of soil sampling.

Soil samples obtained with the Geoprobe® were collected with a 1.4 inch inside diameter (I.D.), 2-inch outside diameter (O.D.) acetate-lined tube sampler. Sampling techniques are described in Section C2.2.

The soil samples collected from soil borings SB-30 through SB-40, HMW-14R, and HMW-18 were screened in the field using a Photovac Microtip photoionization detector (PID). Soil samples collected from soil borings SB-18 through SB-29, HMW-14, HMW-15, HMW-16, and HMW-17 were not screened. The PID was calibrated on a daily basis with 100 ppm isobutylene in air calibration gas according to manufacturer's instructions. Appendix D provides the soil boring logs and Appendix C-1 provides Field Sampling Reports (FSRs) of these soil borings.

The Geoprobe® equipment was steam-cleaned or washed with tap water and phosphate-free (Alconox™) soap and rinsed with pesticide-grade methanol and organic-free water prior to use and between each boring to reduce the potential for cross contamination.

C1.1.2 Hand Auger Procedures

Eight soil borings were advanced using a stainless steel hand auger. Surface grass/debris were removed and the hand auger bucket was inserted into the ground and advanced to the desired depth. Once the bucket was extracted, the soil was placed into a decontaminated stainless steel bowl and homogenized. Sampling procedures are described in Section C2.2.

The hand auger was washed with tap water and phosphate-free (Alconox™) soap and rinsed with pesticide-grade methanol and organic-free water prior to use and between each boring to reduce the potential for cross contamination.

C1.1.3 Split-Spoon Soil Sampling Procedures

Three soil borings were advanced using a truck-mounted drill rig equipped with hollow-stem augers and split-spoon soil samplers. Soil samples collected with a split-spoon sampling device were collected in accordance with ASTM Method D1686-84. Soil samples were collected on continuous basis from ground surface to boring termination using the following procedures. At each sample interval, the split-spoon sampler measuring 1.4-inch I.D., 2-inch O.D. was inserted into the boring. The sampler was seated 6 inches to penetrate any loose cuttings and then driven an additional foot with blows of a 140-pound hammer falling 30 inches. The number of hammer blow required to drive the sampler the final foot was recorded and designated the "standard penetration resistance". The penetration resistance when properly evaluated is an index to engineering properties of the soil. After each interval was sampled the boring was advanced to the next sample interval with the hollow stem augers. Soil samples collected using a split-spoon sampler were collected for lithologic description, field screening for qualitative VOCs using a PID, and laboratory analysis. A small portion of each soil sample was removed from the split-spoon and placed in a "zip-lock" bag, sealed and set aside to allow for volatilization. These soil screening samples ("zip-lock" bag sample) were screened in the field for qualitative volatile organic compounds (VOCs) using a PID, and inspected for staining and odor. The lithology of each soil sample was classified in accordance with the Unified Soil Classification System (USCS). The PID was calibrated on a daily basis with isobutylene in air calibration gas according to the manufacturer's instructions. Soil samples were selected for laboratory analysis based on the field screening results where the PID indicated the presence of VOCs in the soils. Sampling procedures are described in Section C2.2.

C1.2 Temporary Piezometer Installation and Sampling

Eight temporary piezometers were installed to determine placement of the permanent monitoring wells. The piezometers were constructed of a 1.0 inch diameter PVC screen and casing and were installed into the soil boring that was advanced using the Geoprobe®. The screen was ten feet in length with a slot size of 0.010-inch. Select piezometer locations were converted to monitoring wells. For those locations the temporary piezometer was removed, the soil boring was overdrilled, and a monitoring well was installed. Locations that were not designated to be converted to a monitoring well were abandoned using a bentonite/cement grout or bentonite chips to ground surface after the casing and screen were removed.

C1.3 TYPE II MONITORING WELL INSTALLATION

Ten Type II (single cased) groundwater monitoring wells (HMW-14, HMW-14R, HMW-15, HMW-16, HMW-17, HMW-18, HMW-19, HMW-20, HMW-21, and HMW-22) were installed at the site. The borings were drilled by a truck-mounted drill rig using continuous flight hollow stem augers. Monitoring wells were installed in accordance with guidance set forth in U.S. Army Corps of Engineers document EM1110-1-4000, *Monitor Well Design, Installation, and Documentation at Hazardous and/or Toxic Waste Sites*. Wells were designed to screen the uppermost water-bearing zone in the soil at the site. Appendix D provides well construction information for the Type II monitoring wells.

Monitoring wells HMW-14 through HMW-17 were constructed of two-inch I.D. flush joint, threaded schedule 40 PVC pipe with ten feet of 0.010-inch machine slotted screen. Well borings were advanced using a 4.25-inch hollow-stem auger. Clean No. 1 sand of 20/40 gradation was placed into the annulus between the well screen and the borehole using a tremie pipe. Monitoring wells HMW-14R, HMW-18, HMW-19, HMW-20, HMW-21, and HMW-22 are constructed of two-inch I.D. flush joint, threaded schedule 40 PVC pipe with ten feet of 0.006-inch machine slotted screen. Well borings were advanced using a 6.25-inch hollow-stem auger. Clean silica sand of 30/60 gradation was placed into the annulus between the well screen and the borehole using a tremie pipe.

The sand filter pack was installed to approximately two to three feet above the screen and was capped with a bentonite seal approximately 0.5 to 1.5 feet thick. Clean potable water was used to set the sand pack. The volume of water used was recorded on the monitoring well installation diagram (presented in Appendix D). Proper placement of the filter sand was confirmed by taped measurements. Cement-bentonite grout was

installed in the annular space from the top of the bentonite seal to within approximately six inches to a foot of the ground surface using a tremie pipe. A waterproof cap was installed on the riser pipe and an above-grade lockable protective cover and concrete well pad was placed around each well.

C1.4 WELL DEVELOPMENT

Upon completion of monitoring well installation activities, each newly installed well was developed. The purpose of well development is to remove excess sediment, recover any water lost during drilling, clear formational pathways which may have been blocked during drilling, and draw representative groundwater into the screen. Monitoring wells were developed in accordance with guidance set forth in U.S. Army Corps of Engineers document EM1110-1-4000, *Monitor Well Design, Installation, and Documentation at Hazardous and/or Toxic Waste Sites*. The monitoring wells were developed using the pump and surge technique by using a QED purge pump equipped with surge rings or a surge block and submersible pump. The development process was accomplished by causing the groundwater within the well to move vigorously through the screen while removing the water and sediment from the well. The purge pump was raised and lowered through the well screen section producing an agitation action.

Well development was completed at least 48 hours before sampling of each new monitoring well. The monitoring wells were developed using an air driven displacement pump. Development continued until a minimum of five well volumes had been removed, less than 0.1 foot. of sediment remained at the bottom of the monitoring well, and pH, specific conductance, and temperature measurements were stabilized. During well development, pH, temperature, and specific conductivity (SC) were measured to evaluate the effectiveness of the development activities. Measurements were performed with a QED Purge Saver FC-4000 in-line meter or a Horiba™ multi-meter. The meter was calibrated on a daily basis according to manufacturer's instructions. The well was considered developed after five well volumes were removed and the water quality indicator parameters had stabilized. Stabilization of parameters is defined as 10% between two consecutive readings.

In addition, the wells were to be developed to below 5 nephelometric turbidity units (NTUs). The turbidity of the water was measured with a DRT-15C turbidimeter calibrated daily per manufacturer's instructions. Development parameters are summarized in Table C.1.

A photograph of the ground water taken from the developed monitoring well was made of at least a one liter clear glass sample container of the water, using 35 mm color print film, a suitable back-light and background, and close enough to show the clarity of the water. Photographs are presented in Appendix C-2.

C1.5 MONITORING WELL ABANDONMENT

Monitoring well HMW-14 was abandoned because the well was determined to not be representative of groundwater conditions at the site due to turbidity and incorrect well screen placement. HMW-14 was abandoned by removing the bottom well plug and filling the annular space with grout (injected through a tremie pipe) while removing the polyvinyl chloride (PVC) well screen and risers. Once the annular space was filled with grout, the location was completed to ground surface with concrete. Well abandonment procedures were conducted in accordance with guidance set forth in U.S. Army Corps of Engineers document EM1110-1-4000, *Monitor Well Design, Installation, and Documentation at Hazardous and/or Toxic Waste Sites* and Georgia Water Well Standards.

C1.6 SITE SURVEY

The monitoring wells and soil sampling locations were surveyed for horizontal location and elevation. The horizontal locations of monitoring wells and sampling locations were surveyed to a horizontal accuracy of 1.0 foot. The top-of-casing elevations were surveyed to the nearest 0.01 foot. Coordinate values used were Georgia State Plane, East Zone, North American Datum of 1983 (NAD). Ground surface elevations for monitoring wells and soil sampling locations were surveyed to the nearest 0.1 foot. The National Geodetic Vertical Datum (NGVD) of 1929 was used as the reference datum for elevations. Existing monitoring wells that were sampled were surveyed for horizontal location and top-of-casing elevation. The survey was conducted by Donaldson, Garrett & Associates, Inc., a licensed State of Georgia land surveyor.

C2.0 SAMPLING PROCEDURES

The sampling procedures conducted at the former FTA located at HAAF are described below.

C2.1 SAMPLE CONTAINERS AND SAMPLE IDENTIFICATION

Sample containers and preservatives were supplied by the laboratory in accordance with Table C.2. Field personnel identified the location of the sample collected; the date upon which it was obtained; the type of sample; whether or not a preservative was used, and if so, what type; and the respective project number. This information was documented in the Field Sampling Report (FSR). This same information was then placed on the sample identification label, which in turn was affixed to the sample container. Sample labels were filled out with indelible ink.

C2.2 SOIL SAMPLING

Soil samples were collected from a Geoprobe® sampler and/or hand augers and/or split-spoon sampler. Soil samples obtained with the Geoprobe® were collected with a 1.4 inch inside diameter (I.D.), 2-inch outside diameter (O.D.) acetate-lined tube sampler. The acetate liner was split and the soil sample was immediately collected for volatile organic compounds (VOCs) using three Encore® samplers. The remaining soil from the selected interval was placed into a decontaminated stainless steel bowl and homogenized. The homogenized soil was placed into two, 4-ounce (oz) glass jars for semi-volatile organics (SVOCs), and/or pesticides/PCBs, and moisture content.

Soil sample collection procedures from a stainless steel hand auger were performed in the following manner: Surface grass/debris were removed and the hand auger bucket was inserted into the ground and advanced to the desired depth. Once the bucket was extracted, the soil was placed into a decontaminated stainless steel bowl and homogenized. The homogenized soil was placed into one, 4-oz glass jar for SVOCs and moisture content. The samples were individually placed in water-tight zip-lock bags and packed in a cooler with bags of ice in order to maintain sample integrity. Soil samples and QA splits were submitted to the following laboratories for the analyses shown on Table 3.2:

Soil samples were collected with a 1.4-inch I.D., 2-inch O.D. 2-foot in length split-spoon sampler. At each sample interval, the split-spoon sampler was inserted into the boring and seated 6 inches to

penetrate any loose cuttings and then driven an additional foot with blows of a 140-pound hammer falling 30 inches. Soil samples from split-tube samplers were gently removed from the split-tube and placed on clean aluminum foil and securely wrapped and sealed with the aluminum foil and placed on ice pending the results of the headspace gas analysis and completion of visual inspection. A small portion of each soil sample will be placed in a self-sealing plastic bag and placed to the side to allow for volatilization. A photoionization detector (PID) was used to analyze the headspace gas in the bag. The PID gives a relative response to the presence of VOCs, but do not identify individual VOC constituents. The soil samples were also inspected for visual evidence of contamination, e.g., free-phase product and/or staining. The results of the field screening were used to select samples for laboratory analysis. Soil samples for VOC analysis were collected from the soil core from the split-spoon prior to homogenizing. The soil was placed into a decontaminated stainless steel bowl and homogenized. Soil samples for SVOCs and metals analysis were then collected from the homogenized soil.

Soil samples collected from soil borings SB-18 through SB-29, and SB-43 to SB-50, and HMW-14 through HMW-17 were sent to:

Severn Trent Labatories (STL) – Savannah
5102 LaRouche Avenue
Savannah, GA 31404

Because STL-Savannah could not provide data on a 48 hour turn-around time at the scheduled sampling event, the soil samples collected from soil borings SB-30 through SB-42 and HMW-14R, and HMW-18 were sent to:

Analytical Services Inc. (ASI)
110 Technology Parkway
Norcross, GA 30092

QA Split Samples:

Accura Analytical Laboratory, Inc.

6017 Financial Drive
Norcross, GA 30071

C2.3 GROUNDWATER SAMPLING

Groundwater samples were collected from monitoring wells and temporary piezometers. The procedures used to collect the samples are described below.

C2.3.1 Preliminary Observations

Prior to sampling, each monitoring well was inspected for damage and usability. The well cover was carefully opened to limit the potential for foreign material to enter the well. Upon opening the well, both a tri-gas monitor and a PID measurement were collected and entered into the logbook. Prior to purging and sampling, the depth to groundwater and total depth of the well were measured in each well with an electrical water level indicator.

C2.3.2 Groundwater Level Measurement

Each well was marked with an easily identifiable permanent reference survey point that was located on the highest point of the well casing. The depth to groundwater and total depth of the well was measured using an electrical water-level indicator. The instruments used were a electronic water-level meter and product probe. The water-level/product probe indicator was washed with an Alconox™ and water mixture and rinsed with potable water prior to each use. The depth to groundwater was measured and recorded in the field notebook.

C2.3.3 Well Purging

Monitoring wells were purged prior to sampling to provide fresh formation water for sampling. Purging was conducted in accordance with procedures set forth in U.S. Army Corps of Engineers guidance document EM200-1-3, *Requirements for the Preparation of Sampling and Analysis Plans.* Monitoring wells were purged with a QED stainless steel and Teflon bladder pump or a peristaltic pump and dedicated Teflon tubing until a minimum of 3 well volumes had been removed, and pH, specific conductance, and temperature had stabilized. In addition, the wells were to be purged to 5 NTUs. A pair of new gloves were used during the purging and sampling of each well.

The water quality parameters of temperature, pH, and specific conductance were measured with a Purge Saver FC-4000 in-line meter or a Horiba™ multi-meter. The meter was calibrated on a daily basis according to manufacturer's instructions. The physical appearance of the groundwater removed during purging was also recorded. Purging was considered complete when the water quality parameters stabilized. Stabilization of parameters is defined as: variation of pH less than 0.2 pH units between two consecutive readings, variation of temperature less than 0.5 degrees Celsius between two consecutive readings, and less than 10% variation of specific conductance between two consecutive readings. The turbidity of the water was measured with a DRT-15C turbidimeter and calibrated daily per manufacturer's instructions. Table C.3 presents the final well stablization parameters.

The formula used to calculate the volume of standing water in the well casing and filter pack based on the initial water level is presented below:

$$V = \pi ((r_1^2 - r_2^2)\, \phi + r_2^2) \times H \times 7.48$$

Where: V	=	volume, in gallons	
	H	=	height of water in well screen and filter pack in feet
	r_1	=	radius of borehole in feet
	r_2	=	radius of well in feet
	ϕ	=	porosity of filter pack, assumes 30 percent
	π	=	3.14
	7.48	=	conversion factor for cubic feet to gallons

The value of V was then multiplied by 3 (or 5 for development) to obtain the minimum well bore volume required to remove from the well.

C2.3.4 Groundwater Sample Collection

Monitoring Wells

Plastic sheeting was placed on the ground surface in the vicinity of the well to be sampled. Groundwater samples were obtained from each well as soon as the well recovered after purging. The groundwater samples were obtained with a QED stainless steel and Teflon bladder pump or a peristaltic pump with Teflon tubing utilizing low-flow sampling techniques. The flow rate on the pump was lowered to 100 milliliters (mls) +/- 20 mls per minute (as recommended by the EPA) for the collection of VOCs. Groundwater samples for VOC analysis were collected by pulling water into the Teflon tubing and

stopping the peristaltic pump, manually pinching the tubing closed and then removing the tubing pulled from the well with the water retained in the tubing. The pinch was removed from the tubing allowing the column of water to drain from the tubing into the sample container without passing through the pump's roller mechanism. Three 40-ml VOA vials were filled allowing no headspace for VOCs. After the VOCs were collected, the SVOCs and metals containers were filled. The SVOC samples were collected using a Teflon bailer and clean nylon rope. The SVOCs were collected in two, 1-liter amber glass bottles and the metals were collected in a 500 ml polyethylene bottle pre-preserved with nitric acid. The samples were individually placed in water-tight zip-lock bags and packed in a cooler with bags of ice in order to maintain sample integrity. Groundwater samples and QA splits were submitted to the following laboratories for the analyses shown on Table 3.2:

Groundwater Samples:

Analytical Services Inc. (ASI)
110 Technology Parkway
Norcross, GA 30092

Severn Trent Labatories (STL) – Savannah
5102 LaRouche Avenue
Savannah, GA 31404

QA Split Samples:

Accura Analytical Laboratory, Inc.
6017 Financial Drive
Norcross, GA 30071

Temporary Piezometers

The temporary piezometers were sampled within hours after installation with a peristaltic pump. The VOCs were collected by pulling up the tubing and reversing the pump to allow the VOA vials to be filled from the bottom end of the tubing with water that had not been through the pump head. Three, 40-ml VOA vials were filled allowing no headspace for VOCs. After the VOCs were collected, the SVOCs containers were filled (for piezometer samples SB-38 and SB-40). The SVOCs were collected in two, 1-liter amber glass bottles. The samples were individually placed in water-tight zip-lock bags and packed in a cooler with bags of ice in order to maintain sample integrity. The piezometer groundwater samples were submitted to the following laboratories for the analyses shown on Table 3.2:

Piezometer samples collected from locations HMW-14, HMW-15, HMW-16A, HMW-16B, HMW-16C and HMW-17 were sent to:

Severn Trent Laboratories (STL) – Savannah
5102 LaRoche Avenue
Savannah, Georgia 31404

Because STL-Savannah could not provide data on a 48 hour turn-around time, samples collected from piezometer locations SB-38 and SB-40 were sent to:

Analytical Services Inc. (ASI)
110 Technology Parkway
Norcross, GA 30092

C3.0 FIELD SAMPLE RECORD KEEPING AND CUSTODY PROCEDURES

Field documentation and custody procedures used at HAAF are described below.

C3.1 FIELD DOCUMENTATION

Field activities were documented in the field notebook and summarized by the Site Manager on a Daily Quality Control Report (DQCR). To provide for proper identification in the field and proper tracking in the laboratory, samples were labeled in a clear and consistent fashion. Field personnel maintained a permanently bound field notebook. This notebook was water resistant with sequentially numbered pages. Field activities were recorded with a waterproof permanent marker.

C3.2 CHAIN OF CUSTODY

Sample custody was initiated at the time of sample collection by placing the labeled sample into an iced cooler in the possession of the sampling personnel. A line item on the chain-of-custody record was filled out by the sampling personnel. The chain-of-custody record was used to track custody of samples during transport and shipping. Prior to sample shipping, the field representative signed, dated, and listed the time and confirmed the completeness of descriptive information contained on the form. The chain-of-custody form accompanied the samples. Each individual who subsequently assumed responsibility for the samples signed the chain-of-custody record. The field chain-of-custody record terminated upon laboratory receipt of samples. All entries were recorded in ink. Each sample had a corresponding entry on a chain-of-custody record. The chain-of-custody form included:

- Site name
- The unique sample I.D. name or number
- Sample type
- Date and time of the collection
- Number of containers
- Signature of sampler(s)
- Signature of persons involved in the chain of custody and inclusive dates and times of possession

C4.0 GENERAL DECONTAMINATION PROCEDURE

Decontamination was performed in accordance with the following standard operating procedures.

C4.1 GENERAL DECONTAMINATION PROCEDURE

Equipment that came in contact with potentially contaminated materials, soil, or water was cleaned prior to each use on this project. Decontamination consisted of a combination of steam cleaning and/or Alconox™ soap wash and potable water rinse.

C4.2 DRILLING EQUIPMENT

Drilling rigs and downhole equipment were cleaned and decontaminated at a designated decontamination station before each boring or well was installed. Equipment was inspected before use to determine if fluids (oils, lubricants, hydraulic fluids, etc.) were leaking. Drilling equipment was decontaminated as follows:

- The entire rig was steam cleaned upon arrival on-site.
- The back of the rig, including the jacks, mast, kelly bar, platform, hoists, spindles, cathead, etc., was steam cleaned between borings, as necessary.

Downhole drilling and sampling tools were decontaminated before each boring or well installation as described below:

- Steam clean
- Clean with tap water and laboratory grade, phosphate free detergent, with a brush.
- Rinse with tap water.
- Rinse with pesticide-grade methanol.
- Flush with organic-free water and allow to air dry as long as possible.

C4.3 SAMPLING EQUIPMENT

The following cleaning procedures were used for preparing sampling equipment prior to field use:

- Clean with tap water and Alconox™ soap using a brush if necessary to remove particulate matter and surface films.
- Rinse thoroughly with tap water.

- Rinse thoroughly with organic-free water.
- Rinse with pesticide-grade methanol.
- Rinse thoroughly with organic-free water and allow to air dry as long as possible.
- The equipment was wrapped with aluminum foil, if appropriate, to prevent contamination if the equipment was stored or transported.

TABLE C.1

Summary of Monitoring Well Development Parameters

Well Name	Development Date	pH	Specific Conductance	Temperature (°C)	Turbidity (NTU)
HMW-14	8/25/1999	6.46	0.028 (mS/cm)	26.3	1062
HMW-14R	1/11/2000	5.49	158 (umhos/cm)	20.7	15.8
HMW-15	8/26/1999	5.87	0.063 (mS/cm)	22.4	452
HMW-16	9/2/1999	5.77	0.106 (mS/cm)	25.0	19.1
HMW-17	9/1/1999	5.94	0.08 (mS/cm)	25.9	23.1
HMW-18	1/14-15/2000	4.58	0.6 (mS/cm)	17.19	3.57
HMW-19	1/13-14/2000	5.52	200 (umhos/cm)	17.9	4.4
HMW-20	1/12-13/2000	5.71	1.17 (umhos/cm)	20.3	45.5
HMW-21	11/2-5/2001	6.14	130 (umhos/cm)	21.5	100.2
HMW-22	11/2/2001	5.20	145.4 (umhos/cm)	24.6	0.34

PREPARED/DATE: J Vickers 2/29/00
CHECKED/DATE: J Hartness 3/1/00
UPDATED/DATE: R Quinn 11/12/01

TABLE C.2

Sample Containers, Preservation Methods, and Holding Time for Laboratory Analysis

Parameter	Container	Preservation	Holding Time
WATER SAMPLES			
Inorganic Analytes			
Metals	1-liter polypropylene	HNO_3 to pH<2	180 days (mercury 26 days) *
Organic Compounds			
VOCs	3, 40 ml VOA vial	HCl to pH<2	14 days until analysis
SVOCs	1-liter amber glass	cool, 4°C	7 days until extraction and analysis within 40 days *
SOIL SAMPLES			
Organic Compounds			
VOCs	3 Encore samplers	cool, 4°C	48 hours until analysis
SVOCs	1, 4-oz glass jar	cool, 4°C	14 days until extraction and analysis within 40 days *
Pesticides/PCBs	1,4-oz glass jar	cool, 4°C	14 days until extraction and analysis within 40 days *
Metals	1, 16 oz plastic jar	none	6 months until analysis

PREPARED/DATE: J Hartness 3/16/00
CHECKED/DATE: C Northern 3/21/00

Sources:
United States Environmental Protection Agency Test Methods for Evaluating Solid Waste, Physical/Chemical Method, Third Edition; SW-846, July 1992.

Note:

* Holding time from Validated Time of Sample Collection.

TABLE C.3

Summary of Groundwater Sampling Parameters

Well Name	Sample Date	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)
HMW-2	1/16/2000	4.68	44	22.0	1.4
HMW-3	11/6/2001	5.78	144	14.3	1.17
HMW-12	1/19/2000	5.19	0.43	17.3	7.49
HMW-14R	1/17/2000	5.46	1.49	20.4	3.2
HMW-14R	11/6/2001	5.39	264	21	4.07
HMW-17	1/19/2000	5.48	0.61	17.5	9.56
HMW-18	1/20/2000	4.69	0.50	17.1	0.22
HMW-19	1/20/2000	5.20	1.78	17.5	0.40
HMW-20	1/18/2000	5.82	0.71	20.0	9.3
HMW-21	11/6/2001	5.71	141	21.5	116
HMW-22	11/6/2001	5.18	202	24.6	1.1

PREPARED/DATE: J Vickers 2/29/00
CHECKED/DATE: J Hartness 3/1/00
UPDATED/DATE R Quinn 11/12/01

FIELD SAMPLING REPORTS

4

SCREENING SUMMARY

Boring #	Time	DATE	Depth (ft)	Jar Headspace (B-1)	(B-2) PID		Observations	Bor
FTASB-01	1350	8-21-85	.5-1.0'	Ø	Ø	Ø	NO ODOR silty Sand	FTA
FTASB-01	1355	"	2.5-3.0	70	9	Ø	SAND - FUEL LIKE ODOR	FTAS
FTASB-01	1400	"	4.5-5.0	100	13	Ø	"	FTAS
FTASB-01	1412	"	6.5-7.0	50	12	Ø	"	FTAS
FTASB-01	1417	"	8.5-9.0	60	10	Ø	"	FTAS
FTASB-02	1452	"	.5-1.0	Ø	12	Ø	Slight Fuel Odor silty Sand	FTAS
FTASB-02	1458	"	2.5-3.0	60	30	Ø	Sand. Fuel Odor.	FTAS
FTASB-03	1510	"	.5-1.0	0	25	Ø	SAND - Fuel odor	FTASB
FTASB-03	1513	"	2.5-3.0	60	25	Ø	"	FTASB
FTASB-04	0745	8/22	.5-1.0	Ø	Ø	Ø	S. Silty SAND - NO ODOR	FTASB
FTASB-04	0753	"	2.5-3.0	Ø	Ø	Ø	"	FTASB
FTASB-04	0805	"	4.5-5.0	Ø	Ø	Ø	"	FTASB
FTASB-04	0813	"	6.5-7.0	Ø	Ø	Ø	"	FTASB
FTASB-04	0826	"	8.5-9.0	Ø	Ø	Ø	"	FTASB
FTASB-04	0850	"	10.0-10.5	Ø	Ø	Ø	"	FTASB
FTASB-05	0925	"	.5-1.0	Ø	Ø	Ø	"	FTASB
FTASB-05	0933	"	2.5-3.0	20	Ø	Ø	SILTY SAND Fuel ODOR	FTASB
FTASB-05	0945	"	4.5-5.0	20	100	Ø	"	FTASB
FTASB-05	0955	"	6.5-7.0	70	—	Ø	"	FTASB
FTASB-05	1005	"	8.5-9.0	60	—	Ø	"	FTASB
FTASB-06	1016	"	.5-1.0	Ø	Ø	Ø	SILTY SAND NO ODOR	FTASB
FTASB-06	1020	"	2.5-3.0	Ø	Ø	Ø	"	FTASB
FTASB-06	1023	"	4.5-5.0	Ø	Ø	Ø	"	FTASB
FTASB-06	1028	"	6.5-7.0	Ø	Ø	Ø	"	FTASB
FTASB-06	1038	"	8.5-9.0	21	0	0	"	FTASB
FTASB-07	1331	"	.5-1.0	Ø	Ø	Ø	"	
FTASB-07	1337	"	2.5-3.0	16	10	Ø	silty Sand Fuel Odor	
FTASB-07	1341	"	4.5-5.0	50	—	Ø	"	
FTASB-07	1345	"	6.5-7.0	80	20	Ø	"	
FTASB-07	1349	"	8.5-9.0	70	—	Ø	"	
FTASB-07	BC							

SCREENING SUMMARY

	BORING #	TIME	DATE	Depth Feet	JAR Headspace	B.H	B.Z	OBSERVATIONS
Sand	FTASB08	1405	8.22	.5-1	0	0	0	Silty sand
ODOR	FTASB08	1413	8.22	2.5-3'	5	0	0	Silty Sand Fill ODOR
	FTASB08	1420	8-22	4.5-5.0	60	30	0	"
	FTASB-09	1432	8.22	.5-1.0	Ø	Ø	Ø	Silty Sand No ODOR
	FTASB-09	1457	"	2.5-3	Ø	Ø	Ø	"
Silty Sand	FTASB-09	1443	"	4.5-5	Ø	Ø	Ø	"
OR.	FTASB-09	1450	"	6.5-7	Ø	Ø	Ø	"
OR	FTASB-10	1518	"	.5-1.0	60	5	0	Same location as FTACO-2 fill ODOR/silty sand
	FTASB-10	1520	"	2.5-3.0	50	15	0	"
ODOR	FTASB-10	1522	"	4.5-5.0	35	25	0	"
	FTASB-10	1525	"	6.5-7.0	60	24	0	"
	FTASB-10	1528	"	8.5-9.0	40	25	0	"
	FTASB-10	1535	"	9.5-10.0 ~~10.5~~	70	25	0	"
	FTASB-11	0752	8/23	.5-1.0	0	Ø	Ø	Silty Sand Strong ODOR
	FTASB-11	0738	"	2.5-3.0	0	Ø	Ø	"
	FTASB-11	0742	"	4.5-5.0	5	Ø	Ø	"
ODOR	FTASB-11	0748	"	6.5-7.0	2	Ø	Ø	"
	FTASB-11	0752	"	8.5-9.0	10	0	0	"
	FTASB-11	0755	"	9.5-10.0	20	10	0	"
	FTASB-12	0820	"	.5-1.0	15	2	0	Same location as FTACO-4 silty sand - Strong odor
ODOR	FTASB-12	0823	"	2.5-3.0	10	4	0	"
	FTASB-12	0825	"	4.5-5.0	10	7	0	"
	FTASB-12	0830	"	6.5-7.0	12	7	0	"
	FTASB-12	0835	"	8.5-9.0	11	8	0	"
ODOR								

ANALYTICAL SAMPLE SUMMARY

6

SAMPLE ID	DATE Coll.	TIME	Depth	Matrix	PID RESULT
FTASB-04A	8-22-95	0745	.5-1.0'	Soil	0
FTASB04 F	"	0850	10.0-10.5'	"	0
FTASB-06A	"	1016	.5-1.0'	"	0
FTASB-06E	"	1038	8.5-9.0'	"	~~0~~ >1
FTASB-09A	"	1432	.5-1.0'	"	0
FTASB-09D	"	1450	6.5-7.0'	"	0
FTA CO-1	"	1300	3" ~~4"~~	Concrete	NA
FTA CO-2	"	1305	4"	"	NA
FTA CO-3	"	1310	3"	"	NA
FTA CO-4	"	1315	3"	"	NA
FTA CO-4 QA	"	1315	3"	"	NA
FTA CO-DUP	"	0730	3"	"	NA
FSB-10A	"	1518	0.5-1.0'	Soil	60
FTA-SB-10 F	"	1535	9.5-10.0	"	70
FTA-SB-11A	8-23-95	0732	0.5-1.0'	"	0
FTASB-11F	"	0755	9.5-10.0	"	20
FTASB-12A	"	0820	0.5-1.0'	"	15
FTASB-12E	"	0835	8.5-9.0'	"	11
FTASB-DUP	"	0820	Dup of FTASB-12A		
FTASB-12QA	"	0820	QA Split of FTASB-12 ~~QA~~ A		

FIELD SAMPLING REPORT

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 1200 1 - 9 - 3411
JOB NAME HAAF FTA
DATE 7/21/99 TIME 15:30
SAMPLING POINT HMW - 14
LOCATION

SAMPLE INFORMATION SAMPLE I.D. NO. HMW - 14

MATERIAL: t WATER _____ SOIL _____ SLUDGE _____ OTHER (LIST) _____

TYPE: t GRAB _____ COMPOSITE _____ OTHER (LIST) _____

HAZARDOUS?: _____ YES t NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
GLASS	40 ml	2	HCl	VOA Vial

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Turbid / stained - no odor

LABORATORY RECEIPT: DATE/TIME _____ CONDITION _____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK/KB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 95°F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: _____

MODE OF SHIPMENT: t Car/Truck _____ BUS _____ PLANE _____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-3411
JOB NAME HAAF FTA
DATE 7/28/95 TIME 9:30 / 9:40
SAMPLING POINT HMW-14
LOCATION FTA

SAMPLE INFORMATION SAMPLE I.D. NO. HMW-14-1 HMW-14-2

MATERIAL: ____ WATER X SOIL ____ SLUDGE ____ OTHER (LIST) ____

TYPE: X GRAB ____ COMPOSITE ____ OTHER (LIST) ____

HAZARDOUS?: ____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Encore	~ 5g	3	None	HMW-14-1 1.5'
Glass	2 oz Glass	1	None	↓ ↓
Glass	4 oz Glass	1	None	
Encore	~ 5g	3	None	HMW-14-2 7.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1		

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Dk Brown Sand No odor

LABORATORY RECEIPT: DATE/TIME ____ CONDITION ____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK / BG

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 97°F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: ____

MODE OF SHIPMENT: X Car/Truck ____ BUS ____ PLANE ____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-3411
JOB NAME HAAF FTA
DATE 7/21/99 TIME 15:50
SAMPLING POINT HMW-15
LOCATION

SAMPLE INFORMATION SAMPLE I.D. NO. HMW-15

MATERIAL: + WATER _____ SOIL _____ SLUDGE _____ OTHER (LIST) _____

TYPE: + GRAB _____ COMPOSITE _____ OTHER (LIST) _____

HAZARDOUS?: _____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Glass	40 ml	3	HCl	VOA Vials
Glass	40 ml	3	HCl	VOA Vials (duplicate)

COMMENTS. (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Turbid - no odor

LABORATORY RECEIPT: DATE/TIME _____ CONDITION _____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK/KB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 95 °F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: _____

MODE OF SHIPMENT: X Car/Truck _____ BUS _____ PLANE _____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-341
JOB NAME HAAF FTA
DATE 7/28/99 TIME 11:15/11:30
SAMPLING POINT HMW-15
LOCATION FTA

SAMPLE INFORMATION SAMPLE I.D. NO. HMW-15-1 HMW-15-2

MATERIAL: _____ WATER + SOIL _____ SLUDGE _____ OTHER (LIST) _____

TYPE: X GRAB _____ COMPOSITE _____ OTHER (LIST) _____

HAZARDOUS?: _____ YES + NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Encore	~5 g	3	None	HMW-15-1 1.5'
Glass	2 oz Cl	1	↓	↓ ↓
Glass	4 oz Cl	1	↓	↓ ↓
Encore	~5 g	3	None	HMW-15-2 7.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Dk Brown / Black Sand No Odor

LABORATORY RECEIPT: DATE/TIME _____ CONDITION _____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK / BG

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 97° F

SAMPLES SHIPPED TO: Severn Trent Labs

SPECIAL HANDLING: _____

MODE OF SHIPMENT: X Car/Truck _____ BUS _____ PLANE _____ COURIER

FIELD SAMPLING REPORT

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-3411
JOB NAME HAAF FTA
DATE 7/2/99 TIME 15:15
SAMPLING POINT HMW-16A
LOCATION

SAMPLE INFORMATION SAMPLE I.D. NO. HMW-16A

MATERIAL: X WATER ____ SOIL ____ SLUDGE ____ OTHER (LIST) ____

TYPE: X GRAB ____ COMPOSITE ____ OTHER (LIST) ____

HAZARDOUS?: ____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Glass	40 ml	2	HCl	VOA vial

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Turbid – no odor

LABORATORY RECEIPT: DATE/TIME ____ CONDITION ____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK/KB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 95°F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: ____

MODE OF SHIPMENT: X Car/Truck ____ BUS ____ PLANE ____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-3411
JOB NAME HAAF FTA
DATE 7/21/99 TIME 15:00
SAMPLING POINT HMW-16B
LOCATION

SAMPLE INFORMATION SAMPLE I.D. NO. HMW-16B

MATERIAL: t WATER ____ SOIL ____ SLUDGE ____ OTHER (LIST) ____

TYPE: t GRAB ____ COMPOSITE ____ OTHER (LIST) ____

HAZARDOUS?: ____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Glass	40 ml	3	HCl	VOA Vial

COMMENTS. (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Turbid – no odor

LABORATORY RECEIPT: DATE/TIME ____ CONDITION ____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PL / KB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 95°F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: ____

MODE OF SHIPMENT: X Car/Truck ____ BUS ____ PLANE ____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-3411
JOB NAME HAAF FTA
DATE 7/21/99 TIME 14:45
SAMPLING POINT HMW-16C
LOCATION

SAMPLE INFORMATION SAMPLE I.D. NO. HMW-16C

MATERIAL: X WATER _____ SOIL _____ SLUDGE _____ OTHER (LIST) _____

TYPE: X GRAB _____ COMPOSITE _____ OTHER (LIST) _____

HAZARDOUS?: _____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Glass	40 ml	3	HCl	VOA vial

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Turbid - no odor

LABORATORY RECEIPT: DATE/TIME _____ CONDITION _____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK / KB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER 95° Sunny AIR TEMP. 95°F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: _____

MODE OF SHIPMENT: X Car/Truck _____ BUS _____ PLANE _____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 1200 1-9-3411
JOB NAME HAAF FTA
DATE 7/29/99 TIME 9:30/9:45
SAMPLING POINT HMW-16
LOCATION FTA

SAMPLE INFORMATION SAMPLE I.D. NO. HMW-16-1 HMW-16-2

MATERIAL: _____ WATER X SOIL _____ SLUDGE _____ OTHER (LIST) _____

TYPE: X GRAB _____ COMPOSITE _____ OTHER (LIST) _____

HAZARDOUS?: _____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Encore	~5g	3	None	HMW-16-1 1.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓
Encore	~5g	3	None	HMW-16-2 7.0'
Glass	2 oz	1		
Glass	4 oz	1	↓	↓ ↓

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Dk Brown / Black Sand No odor

LABORATORY RECEIPT: DATE/TIME _____ CONDITION _____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK / BG

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 94°F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: _____

MODE OF SHIPMENT: X Car/Truck _____ BUS _____ PLANE _____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-3411
JOB NAME HAAF - FTA
DATE 7/21/99 TIME 15:30
SAMPLING POINT HMW-17
LOCATION

SAMPLE INFORMATION SAMPLE I.D. NO. HMW-17

MATERIAL: X WATER ____ SOIL ____ SLUDGE ____ OTHER (LIST) ____

TYPE: X GRAB ____ COMPOSITE ____ OTHER (LIST) ____

HAZARDOUS?: ____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Glass	40 ml	3	HCl	Vod Vials

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Turbid - no odor

LABORATORY RECEIPT: DATE/TIME ____ CONDITION ____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK/KB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 95°F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: ____

MODE OF SHIPMENT: X Car/Truck ____ BUS ____ PLANE ____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-3411
JOB NAME NAVAIR FTA
DATE 7/28/99 TIME 1330/1545
SAMPLING POINT HMW-17
LOCATION FTA

SAMPLE INFORMATION

SAMPLE I.D. NO. HMW-17-1 HMW-17-2

MATERIAL: _____ WATER X SOIL _____ SLUDGE _____ OTHER (LIST) _____

TYPE: X GRAB _____ COMPOSITE _____ OTHER (LIST) _____

HAZARDOUS?: _____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Encore	25g	3	None	HMW-17-1 1.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓
Encore	~5g	3	None	HMW-17-2 6.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Brown / Dk Brown Silty Sand No Odor

LABORATORY RECEIPT: DATE/TIME _____ CONDITION _____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS

SAMPLES COLLECTED BY: PK / BG

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION

WEATHER Sunny AIR TEMP. 97° F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: _____

MODE OF SHIPMENT: X Car/Truck _____ BUS _____ PLANE _____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-3411
JOB NAME HAAF FTA
DATE 7/22/99 TIME 8:00/5:20
SAMPLING POINT SB-18
LOCATION FTA

SAMPLE INFORMATION SAMPLE I.D. NO. SB-18-1 SB-18-2

MATERIAL: ____ WATER X SOIL ____ SLUDGE ____ OTHER (LIST) ____

TYPE: X GRAB ____ COMPOSITE ____ OTHER (LIST) ____

HAZARDOUS?: ____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Encore	~5g	3	None	SB-18-1 1.5'
Glass	2oz.	1	None	↓
Glass	4 oz.	1	None	↓
Encore	~5g	3	None	SB-18-2 6'
Glass	2 oz.	1	None	↓
Glass	4 oz.	1	None	↓

COMMENTS: (WELL PURGING VOLUME: SAMPLE APPEARANCE: ODOR: COLOR: ETC.)
Dk Brown Sand No odor

LABORATORY RECEIPT: DATE/TIME ____ CONDITION ____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK / KB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 95°F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: ____

MODE OF SHIPMENT: X Car/Truck ____ BUS ____ PLANE ____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-5411
JOB NAME HAAP ETA
DATE 7/22/99 TIME 9:20/9:40
SAMPLING POINT SB-19
LOCATION ETA

SAMPLE INFORMATION SAMPLE I.D. NO SB-19-1 SB-19-2

MATERIAL: ____ WATER t SOIL ____ SLUDGE ____ OTHER (LIST) ____

TYPE: t GRAB ____ COMPOSITE ____ OTHER (LIST) ____

HAZARDOUS?: ____ YES t NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Encore	~5 g	3	None	SB-19-1 1.5'
Glass	2 oz	1	"	" "
Glass	4 oz	1	"	" "
Encore	~5 g	3	None	SB-19-2 5.5'
Glass	2 oz	1	"	" "
Glass	4 oz	1	"	" "

COMMENTS: (WELL PURGING VOLUME: SAMPLE APPEARANCE: ODOR: COLOR: ETC.)
Dk Brown/Brown Sand No Odor

Sample SB-19-1 split w/ACOE LAB (Accura) Samples shipped by Fed Ex 7/22/99

LABORATORY RECEIPT: DATE/TIME ____ CONDITION ____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK/KB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 95°F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: ____

MODE OF SHIPMENT: t Car/Truck ____ BUS ____ PLANE ____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-5411
JOB NAME HAAF FTA
DATE 7/22/99 TIME 9:50/9:55
SAMPLING POINT SB-20
LOCATION FTA

SAMPLE INFORMATION SAMPLE I.D. NO. SB-20-1 SB-20-2

MATERIAL: _____ WATER ✓ SOIL _____ SLUDGE _____ OTHER (LIST) _____

TYPE: ✓ GRAB _____ COMPOSITE _____ OTHER (LIST) _____

HAZARDOUS?: _____ YES ✓ NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS	
Encore	~ 5 g	3	None	SB-20-1	1.5'
Glass	2 oz	1	↓	↓	↓
Glass	4 oz	1	↓	↓	↓
Encore	~ 5 g	3	NONE	SB-20-2	5.5'
Glass	2 oz	1	↓	↓	↓
Glass	4 oz	1	↓	↓	↓

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Black / Dk Brown Sand. No ODOR

LABORATORY RECEIPT: DATE/TIME _____ CONDITION _____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: DK / KB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 95 °F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: _____

MODE OF SHIPMENT: X Car/Truck _____ BUS _____ PLANE _____ COURIER

FIELD SAMPLING REPORT

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-3411
JOB NAME HAAF FTA
DATE 7/22/99 TIME 10:00/10:05
SAMPLING POINT SB-21
LOCATION FTA

SAMPLE INFORMATION SAMPLE I.D. NO. SB-21-1 SB-21-2

MATERIAL: _____ WATER X SOIL _____ SLUDGE _____ OTHER (LIST) _____

TYPE: X GRAB _____ COMPOSITE _____ OTHER (LIST) _____

HAZARDOUS?: _____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Encore	~ 5 g	3	None	SB-21-1 1.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓
Encore	~ 5 g	3	None	SB-21-2 5.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Lt Brown / Med Brown Sand No odor

Duplicate B collected at SB-21-1 (3 encores, 1 2oz Glass, 1 4oz Glass)

LABORATORY RECEIPT: DATE/TIME _____ CONDITION _____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK / KB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 95°F

SAMPLES SHIPPED TO: Savannah Lab

SPECIAL HANDLING: _____

MODE OF SHIPMENT: X Car/Truck _____ BUS _____ PLANE _____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-3411
JOB NAME HARF FTA
DATE 7/22/99 TIME 11:30/11:75
SAMPLING POINT SB-22
LOCATION FTA

SAMPLE INFORMATION SAMPLE I.D. NO. SB-22-1 SB-22-2

MATERIAL: _____ WATER X SOIL _____ SLUDGE _____ OTHER (LIST) _____

TYPE: X GRAB _____ COMPOSITE _____ OTHER (LIST) _____

HAZARDOUS?: _____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Encore	~5g	3	None	SB-22-1 1.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓
Encore	~5g	3	None	SB-22-2 5.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Brown / Dk. Grey Sand No odor

LABORATORY RECEIPT: DATE/TIME _____ CONDITION _____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK / KB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 95°F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: _____

MODE OF SHIPMENT: X Car/Truck _____ BUS _____ PLANE _____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-3411
JOB NAME HAAF FTA
DATE 7/29/99 TIME 11:25/11:30
SAMPLING POINT SB-23
LOCATION FTA

SAMPLE INFORMATION SAMPLE I.D. NO. SB-23-1 SB-23-2

MATERIAL: _____ WATER X SOIL _____ SLUDGE _____ OTHER (LIST) _____

TYPE: X GRAB _____ COMPOSITE _____ OTHER (LIST) _____

HAZARDOUS?: _____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Encore	~5 g	3	None	SB-23-1 4.5'
Glass	2 oz	1	None	↓ ↓
Glass	4 oz	1	None	
Encore	~5 g	3	None	SB-23-2 6.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1		

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Lt Brown / Drk Brown Sand No odor

LABORATORY RECEIPT: DATE/TIME _____ CONDITION _____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK / BG

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 94 °F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: _____

MODE OF SHIPMENT: X Car/Truck _____ BUS _____ PLANE _____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-3411
JOB NAME HAAF FTA
DATE 7/29/99 TIME 11:15 / 1420
SAMPLING POINT SB-24
LOCATION FTA

SAMPLE INFORMATION SAMPLE I.D. NO. SB-24-1 SB-24-2

MATERIAL: _____ WATER X SOIL _____ SLUDGE _____ OTHER (LIST) _____

TYPE: X GRAB _____ COMPOSITE _____ OTHER (LIST) _____

HAZARDOUS?: _____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Encore	~ 5g	3	None	SB-24-1 1.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓
Encore	~ 5g	3	None	SB-24-2 6.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Dk Brown / Grey Sand No odor

LABORATORY RECEIPT: DATE/TIME _____ CONDITION _____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: BG / PK

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 94 °F

SAMPLES SHIPPED TO: Severn Labs

SPECIAL HANDLING: _____

MODE OF SHIPMENT: X Car/Truck _____ BUS _____ PLANE _____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-5414
JOB NAME HAAF FTA
DATE 7/22/99 TIME 10:50/10:55
SAMPLING POINT SB-25
LOCATION FTA

SAMPLE INFORMATION

SAMPLE I.D. NO. SB-25-1 SB-25-2

MATERIAL: _____ WATER ✓ SOIL _____ SLUDGE _____ OTHER (LIST) _____

TYPE: ✓ GRAB _____ COMPOSITE _____ OTHER (LIST) _____

HAZARDOUS?: _____ YES ✓ NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Encore	~5g	3	None	SB-25-1 1.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓
Encore	~5g	3	None	SB-25-2 5.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Brown / Dk Brown / Black & red stained Petroleum Odor.

LABORATORY RECEIPT: DATE/TIME _____ CONDITION _____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS

SAMPLES COLLECTED BY: PK / KJB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION

WEATHER Sunny AIR TEMP. 95 °F

SAMPLES SHIPPED TO: Severn Labs

SPECIAL HANDLING: _____

MODE OF SHIPMENT: ✓ Car/Truck _____ BUS _____ PLANE _____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-3411
JOB NAME HAAF FTA
DATE 7/22/99 TIME 10:20/10:25
SAMPLING POINT SB-27
LOCATION FTA

SAMPLE INFORMATION SAMPLE I.D. NO. SB-27-1 SB-27-2

MATERIAL: ____ WATER X SOIL ____ SLUDGE ____ OTHER (LIST) ____

TYPE: X GRAB ____ COMPOSITE ____ OTHER (LIST) ____

HAZARDOUS?: ____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Encore	~5g	3	None	SB-27-1 1.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓
Encore	~5g	3	None	SB-27-2 5.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
Black / Dk Brown Sand. slightly Stained Slight Odor

LABORATORY RECEIPT: DATE/TIME ____ CONDITION ____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK / KB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 95 °F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: ____

MODE OF SHIPMENT: X Car/Truck ____ BUS ____ PLANE ____ COURIER

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-3411
JOB NAME HAAF FTA
DATE 1/22/99 TIME 8:50/9:00
SAMPLING POINT SB-28
LOCATION FTA

SAMPLE INFORMATION SAMPLE I.D. NO. SB-28-1 SB-28-2

MATERIAL: ____ WATER X SOIL ____ SLUDGE ____ OTHER (LIST) ____

TYPE: X GRAB ____ COMPOSITE ____ OTHER (LIST) ____

HAZARDOUS?: ____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS	
Encore	~ 5g	3	None	SB-28-1	1.5'
Glass	2 oz	1	↓		
Glass	4 oz	1	↓	↓	↓
Encore	~ 5g	3	None	SB-28-2	5.5'
Glass	2 oz	1			
Glass	4 oz	1	↓	↓	↓

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
DK Brown / DK grey Sand. No Odor

LABORATORY RECEIPT: DATE/TIME ____ CONDITION ____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK / KB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 95°F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: ____

MODE OF SHIPMENT: X Car/Truck ____ BUS ____ PLANE ____ COURIER

FIELD SAMPLING REPORT

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12021-9-3411
JOB NAME HAAF FTA
DATE 7/22/99 TIME 9:15/9:25
SAMPLING POINT SB-29
LOCATION FTA

SAMPLE INFORMATION SAMPLE I.D. NO. SB-29-1 SB-29-2

MATERIAL: _____ WATER X SOIL _____ SLUDGE _____ OTHER (LIST) _____

TYPE: X GRAB _____ COMPOSITE _____ OTHER (LIST) _____

HAZARDOUS?: _____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Encore	~5g	3	None	SB-29-1 1.5'
Glass	2 oz	1	None	↓ ↓
Glass	4 oz	1	None	↓ ↓
Encore	~5g	3	None	SB-29-2 5.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓

COMMENTS: (WELL PURGING VOLUME; SAMPLE APPEARANCE; ODOR; COLOR; ETC.)
DK Brown / Black Sand No odor

SB-29-2 split w/ACOE LAB (Accura) Samples shipped by Fed Ex 7/22/99

LABORATORY RECEIPT: DATE/TIME _____ CONDITION _____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK / KB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 95 °F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: _____

MODE OF SHIPMENT: X Car/Truck _____ BUS _____ PLANE _____ COURIER

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : HMW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: HMW-2-W
QC LEVEL: AFCEE Level I
MATRIX: WG
DUP./REP. OF:
SAMPLING METHOD: BP
DATE: 1-16-00 TIME: BEGINNING DEPTH: 14.11 END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
~~1 L~~ 500ml Poly	1	HNO3, Cool to 4	SW3005A	SW6010A	Total ICP Metals (Pb only)	SLS

Time (hrs:mins)	11:55	1210	1225	1240	1255	1340	1325	1340				
Volume Purged (gals)	1.5	2.5	3.0	3.5	4.0	5.0	6.0	6.5				
Temperature (Celsius)	21.79	21.86	21.84	21.97	21.94	21.94	21.92	21.95				
pH	4.76	4.73	4.70	4.69	4.70	4.69	4.68	4.68				
Specific Conductance (uS)												
Dissolved Oxygen (mg/L)												
Turbidity (NTU)	160.7	4.5	1.0	0.6	8.2	2.35	1.9	1.4				
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon ✓ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

~~WEATHER:~~ SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION ___ AMBIENT TEMP 21.2 SHIPMENT VIA: FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Mike Horner OBSERVER: Victor Clarke

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : HMW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: HMW-12-W
QC LEVEL AFCEE Level I
MATRIX WG
DUP./REP. OF:
SAMPLING METHOD BP DATE: 1-19-00 TIME: BEGINNING DEPTH: 11.97 END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	3	HCL, Cool to 4 °	SW5030B	SW8260B	Volatile Organic Compounds	SLS
1 L Amber Glass	2	Cool to 4 °C	SW3520C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~	SLS
~~1 L~~ Poly 500 ml	1	HNO3, Cool to 4	SW3005A	SW6010B	Total ICP Metals (As, Ba, Pb)	SLS

Time (hrs:mins)													
Volume Purged (gals)	3.5	7.0	~~10.5~~	~~14.0~~	17.5	21.0	24.5	28.0					
Temperature (Celsius)	18.23	17.98	16.89	16.97	17.28	17.31							
pH	5.35	5.21	5.06	5.34	5.14	5.19							
Specific Conductance (uS)	72.1	68.3	~~0.0~~64	0.32	0.43	0.43							
Dissolved Oxygen (mg/L)													
Turbidity (NTU)	88.3	40.1	2.24	1.39	.73	.53							
Redox Potential (mV)													
Alkalinity (mg/L)													
Ferrous Iron (mg/L)													
Sulfide (mg/L)													
CarbonDioxide (mg/L)													

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ✓ WIND DIRECTION ___ AMBIENT TEMP ___

SHIPMENT VIA:
FED-X ✓ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Victor Clarke OBSERVER:

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : HMW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
SAMPLE ID: HMW-14R-1
QC LEVEL: AFCEE Level I
MATRIX: SO
DUP./REP. OF:
SAMPLING METHOD: DP
DATE: 1/5/00 TIME: 1415 BEGINNING DEPTH: 0 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ ✓ pH	SLS

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge X Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

OTHER:

SHIPMENT VIA:

SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____ FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : HMW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
QC LEVEL: AFCEE Level I
MATRIX: SO
SAMPLING METHOD: DP
SAMPLE ID: HMW-14R-2
DUP./REP. OF:
DATE: 1/5/00 TIME: 1440 BEGINNING DEPTH: 7 END DEPTH: 9

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ cpl	SLS

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge X Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER: SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA: FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : HMW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓ COMPOSITE ( )
QC LEVEL: AFCEE Level I
MATRIX: SO
SAMPLING METHOD: DP

SAMPLE ID: HMW-14R-2MS/MSD
DUP./REP. OF:
DATE: 1/5/00 TIME: 1440 BEGINNING DEPTH: 7 END DEPTH: 9

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ ✓	SLS

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge X Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER: SHIPMENT VIA:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____ FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : HMW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
SAMPLE ID: HMW-14R-W
QC LEVEL: AFCEE Level I
MATRIX: WG
DUP./REP. OF:
SAMPLING METHOD: BP
DATE: 1-17-00 TIME: 15:38 BEGINNING DEPTH: 12.84 END DEPTH: ~~12.88~~ 12.81

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	3	HCL, Cool to 4 °	SW5030B	SW8260B	Volatile Organic Compounds	SLS
1 L Amber Glass	2	Cool to 4 °C	SW3520C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ ~~opH~~	SLS
~~1 L~~ Poly ~~500 mL~~ ~~opH~~	1	HNO3, Cool to 4	SW3005A	SW6010B	Total ICP Metals (As, Ba, Pb)	SLS

Last 15:20

Time (hrs:mins)	10:50	11:05	11:20	11:35	11:50	12:05	12:20	12:35	12:50	13:05	13:20	13:35	555
Volume Purged (gals)	1.5	3.0	4.75	6.5	8.25	10.00	11.75	13.5	15.25	17.0	18.75	20.5	22.2
Temperature (Celsius)	20.54	20.61	20.63	20.74	20.90	20.95	20.99	20.90	20.89	20.96	20.99	20.99	
pH	5.92	5.90	5.76	5.72	5.64	5.60	5.57	5.59	5.46	5.46	5.46	5.46	
Specific Conductance (uS)													
Dissolved Oxygen (mg/L)													
Turbidity (NTU) 90.2	6.58	4.86	4.60	3.86	4.49	4.02	3.30	3.42	3.41	3.05	3.04	3.20	
Redox Potential (mV)													
Alkalinity (mg/L)													
Ferrous Iron (mg/L)													
Sulfide (mg/L)													
CarbonDioxide (mg/L)													

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER:
SUN/CLEAR ✓ OVERCAST/RAIN ___ WIND DIRECTION ___ AMBIENT TEMP ___

SHIPMENT VIA:
FED-X ✓ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Victor Clarke
OBSERVER:

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : HMW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
SAMPLE ID: HMW-14R-WMS
QC LEVEL AFCEE Level I
MATRIX WG
DUP./REP. OF:
SAMPLING METHOD BP
DATE: 1-17-00 TIME: 15:38 BEGINNING DEPTH: 12.84 END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	3	HCL, Cool to 4 °	SW5030B	SW8260B	Volatile Organic Compounds	SLS
1 L Amber Glass	2	Cool to 4 °C	SW3520C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ ORIG	SLS
~~1 L~~ Poly 500mL	1	HNO3, Cool to 4	SW3005A	SW6010B	Total ICP Metals (As, Ba, Pb)	SLS

Last 15:20

Time (hrs:mins)	10:50	11:05	11:20	11:35	11:50	12:05	12:20	12:35	12:50	13:05	13:20	13:35
Volume Purged (gals)	1.5	3.0	4.75	6.5	8.25	10.00	11.75	13.5	15.25	17.0	18.75	20.5
Temperature (Celsius)	20.54	20.61	20.63	20.79	20.90	20.95	20.99	20.90	20.99	20.96	20.94	20.94
pH	5.42	5.90	5.76	5.72	5.64	5.60	5.57	5.54	5.46	5.46	5.46	5.46
Specific Conductance (uS)												
Dissolved Oxygen (mg/L)											3.04	
Turbidity (NTU) 90.7	6.58	4.86	4.60	3.86	4.49	4.02	3.30	3.42	3.41	3.05	~~3.04~~	3.20
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

OTHER:
SHIPMENT VIA:
N/CLEAR ✓ OVERCAST/RAIN ___ WIND DIRECTION ___ AMBIENT TEMP ___ FED-X ✓ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Victor Clarke OBSERVER:

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : HMW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
SAMPLE ID: HMW-14R-WMSD
QC LEVEL: AFCEE Level I
MATRIX: WG
DUP./REP. OF:
SAMPLING METHOD: BP
DATE: 1-17-00 TIME: 15:38 BEGINNING DEPTH: 12.84 END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	3	HCL, Cool to 4 °	SW5030B	SW8260B	Volatile Organic Compounds	SLS
1 L Amber Glass	2	Cool to 4 °C	SW3520C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ ~~4+4~~	SLS
~~1 L~~ Poly	1	HNO3, Cool to 4	SW3005A	SW6010B	Total ICP Metals (As, Ba, Pb)	SLS

500 mL
~~4+4~~

20.89 20.46 20.44 20.44 Last 15:20

Time (hrs:mins)	10:50	11:05	11:20	1135	1150	1205	1220	1235	1250	1305	1320	1335
Volume Purged (gals)	1.5	3.0	4.75	6.5	8.25	10.00	11.75	13.5	15.25	17.0	18.75	20.5
Temperature (Celsius)	20.51	20.61	20.63	20.79	20.90	20.95	20.90	~~20.86~~	~~20.46~~	~~20.44~~	~~20.44~~	
pH 90.2	6.58	4.06	4.60	5.86	4.99	4.02	3.30	3.42	3.41	3.05	304	320
Specific Conductance (uS)												
Dissolved Oxygen (mg/L)												
Turbidity (NTU)												
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
SUN/CLEAR ✓ OVERCAST/RAIN ___ WIND DIRECTION ___ AMBIENT TEMP ___

SHIPMENT VIA:
FED-X ✓ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Victor Clarke OBSERVER:

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : HMW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: HMW-17-W
QC LEVEL: AFCEE Level I
MATRIX: WG
DUP./REP. OF:
SAMPLING METHOD: BP
DATE: 1-19-00 TIME: BEGINNING DEPTH: 9.48 END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	3	HCL, Cool to 4 °	SW5030B	SW8260B	Volatile Organic Compounds	SLS
1 L Amber Glass	2	Cool to 4 °C	SW3520C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ ~~gold~~	SLS
~~1 L~~ Poly	1	HNO3, Cool to 4	SW3005A	SW6010B	Total ICP Metals (As, Ba, Pb)	SLS

500 mL
~~gold~~

(SC) 70.1 .63 .56 .59 .60 .61

Time (hrs:mins)	1050	1120	1150	1220	1250	1320	1350	1420	1450			
Volume Purged (gals)	3.5	7.0	10.5	14.0	17.5	21.0	24.5	28.0	31.5			
Temperature (Celsius)	19.24	14.09	18.53	18.77	17.07	17.34	17.46	17.48	17.47			
pH	6.25	6.24	6.25	6.24	5.48	5.06	5.49	5.44	5.48			
Specific Conductance (uS)	0.93	1.77	~~0.63~~	~~0.56~~	~~0.59~~	~~0.60~~	~~0.61~~					
Dissolved Oxygen (mg/L)												
Turbidity (NTU)	158	72	36	22	14.75	10.99	9.92	10.03	9.56			
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER:
CLEAR ___ OVERCAST/RAIN ✓ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ✓ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Victor Clarke
OBSERVER:

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : HMW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
QC LEVEL AFCEE Level I
MATRIX WG
SAMPLING METHOD BP

SAMPLE ID: Duplicate-W
DUP./REP. OF: HMW-17-W
DATE: 1-19-00 TIME: BEGINNING DEPTH: 9.48 END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	3	HCL, Cool to 4 °	SW5030B	SW8260B	Volatile Organic Compounds	SLS
1 L Amber Glass	2	Cool to 4 °C	SW3520C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ ~~ppl~~	SLS
~~1L~~ Poly	1	HNO3, Cool to 4	SW3005A	SW6010B	Total ICP Metals (As, Ba, Pb)	SLS

500mL

Time (hrs:mins)												
Volume Purged (gals)												
Temperature (Celsius)												
pH												
Specific Conductance (uS)												
Dissolved Oxygen (mg/L)												
Turbidity (NTU)												
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ✓ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ✓ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Victor Clarke OBSERVER:

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : HMW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
QC LEVEL AFCEE Level I
MATRIX SO
SAMPLING METHOD DP

SAMPLE ID: HMW-18-1
DUP./REP. OF:
DATE: 1-6-00 TIME: 12:55 BEGINNING DEPTH: 0 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8081A	Pesticides	SLS

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ ~~Direct Push~~ _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER: CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA: FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Thomas Keller OBSERVER: Michael Hoover

FACILITY I.D. : HUNT
SITE : HMW

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: HMW-18-2
QC LEVEL: AFCEE Level I
MATRIX: SO
DUP./REP. OF:
SAMPLING METHOD: DP
DATE: 4-6-00 TIME: 13:05 BEGINNING DEPTH: 2 END DEPTH: 3

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ ~~ppl~~	SLS

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ ~~Direct Push~~ _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER:
SUN/CLEAR ✓ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Thomas Kolbe OBSERVER: Michael Hogan

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : HMW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )

SAMPLE ID: HMW-18-W

QC LEVEL: AFCEE Level I
MATRIX: WG
SAMPLING METHOD: BP

DUP./REP. OF:

DATE: 1-20-00 TIME: 19:36 BEGINNING DEPTH: 8.66 END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	3	HCL, Cool to 4 °	SW5030B	SW8260B	Volatile Organic Compounds	SLS
1 L Amber Glass	2	Cool to 4 °C	SW3520C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ ~~ppl~~	SLS
~~1 L~~ Poly	1	HNO3, Cool to 4	SW3005A	SW6010B	Total ICP Metals (As, Ba, Pb)	SLS

500 mL

Time (hrs:mins)												
Volume Purged (gals)	3.5	7.0	10.5	14.0	17.5	21.0	24.5	28.0				
Temperature (Celsius)	17.43	17.54	17.73	17.68	17.84	17.12	17.15	17.14				
pH	5.22	5.19	5.15	5.05	5.08	4.87	4.77	4.69				
Specific Conductance (uS)	1.78	1.66	1.78	1.66	.80	.79	.57	.50				
Dissolved Oxygen (mg/L)												
Turbidity (NTU)	36.4	3.85	1.30	.32	1~~9~~	.50~~47~~	.42~~.27~~	.22				
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER: CLEAR ✓ OVERCAST/RAIN ___ WIND DIRECTION ___ AMBIENT TEMP ___

SHIPMENT VIA: FED-X ✓ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS. Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Victor Clarke OBSERVER:

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : HMW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )

SAMPLE ID: HMW-19-W

QC LEVEL AFCEE Level I
MATRIX WG
SAMPLING METHOD BP

DUP./REP. OF:

DATE: 1-20-00 TIME: 14:20 BEGINNING DEPTH: 8.94 END DEPTH: 10.26

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	3	HCL, Cool to 4 °	SW5030B	SW8260B	Volatile Organic Compounds	SLS
1 L Amber Glass	2	Cool to 4 °C	SW3520C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ ~~cpd~~	SLS
~~1 L~~ Poly	1	HNO3, Cool to 4	SW3005A	SW6010B	Total ICP Metals (As, Ba, Pb)	SLS

500 mL

Time (hrs:mins)	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00		
Volume Purged (gals)	3.5	7.0	10.5	14.0	17.5	21.0	24.5	28.0	31.5	36.0		
Temperature (Celsius)	16.77	17.62	17.90	18.17	18.26	18.33	17.90	17.69	17.67	17.53		
pH	5.68	5.66	5.57	5.54	5.54	5.53	5.35	5.23	5.19	5.20		
Specific Conductance (uS)	1.63	1.61	1.66	1.78	1.82	1.82	1.79	1.79	1.79	1.78		
Dissolved Oxygen (mg/L)												
Turbidity (NTU)	29	2.25	1.25	.81	.40	.58	.50	.28	0.63	0.40		
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:

SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION ___ AMBIENT TEMP ___

SHIPMENT VIA:

FED-X ✓ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Victor Clarke OBSERVER:

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : HMW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: HMW-19-WQA
QC LEVEL: AFCEE Level I
MATRIX: WG
DUP./REP. OF: HMW-19-W
SAMPLING METHOD: BP
DATE: TIME: BEGINNING DEPTH: END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	3	HCL, Cool to 4 °	SW5030B	SW8260B	Volatile Organic Compounds	ACRA
1 L Amber Glass	2	Cool to 4 °C	SW3520C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ QAU	ACRA
1 L Poly	1	HNO3, Cool to 4	SW3005A	SW6010B	Total ICP Metals (As, Ba, Pb)	ACRA

COE QA split Sample

* See FSR For Sample HMW-19-W For (well Data).

Time (hrs:mins)												
Volume Purged (gals)												
Temperature (Celsius)												
pH												
Specific Conductance (uS)												
Dissolved Oxygen (mg/L)												
Turbidity (NTU)												
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

OTHER: SHIPMENT VIA:

SUNNY/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____ FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: ACRA: Acura Analytical Laboratory, Inc., 6017 Financial Drive, Norcross, GA 30071

SAMPLER: R Vitt Clarke OBSERVER:

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : HMW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
QC LEVEL AFCEE Level I
MATRIX WG
SAMPLING METHOD BP

SAMPLE ID: HMW-20-W
DUP./REP. OF:
DATE: 1-18-00 TIME: 15:07 BEGINNING DEPTH: 6.94 END DEPTH: 8.23

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	3	HCL, Cool to 4 °	SW5030B	SW8260B	Volatile Organic Compounds	SLS
1 L Amber Glass	2	Cool to 4 °C	SW3520C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ ~~2pH~~	SLS
~~1 L~~ Poly	1	HNO3, Cool to 4	SW3005A	SW6010B	Total ICP Metals (As, Ba, Pb)	SLS

500 mL

one Reading every ½ Hour Due to Lack of writting space.

Time (hrs:mins)	0900	0930	1000	10:30	1100	1130	1200	1230	1300	1330	1400	
Volume Purged (gals)	3.5	7.0	10.5	14.0	17.5	21.0	24.5	28.0	31.5	35.0	38.5	
Temperature (Celsius)	19.47	18.98	19.21	19.45	19.40	19.52	19.58	19.81	19.98	19.98	19.97	
pH	5.79	5.79	5.80	5.79	5.79	5.79	5.79	5.79	5.80	5.81	5.82	
Specific Conductance (uS)	0.70	0.65	0.66	0.68	0.69	0.64	0.70	0.70	0.71	0.69	0.71	
Dissolved Oxygen (mg/L)												
Turbidity (NTU)	46.0	30.1	27.2	24.8	23.4	21.8	20.8	19.6	16.96	16.84	9.30	
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ✓ WIND DIRECTION ___ AMBIENT TEMP 61

SHIPMENT VIA:
FED-X ✓ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Victor Clarke OBSERVER:

FACILITY I.D.: HUNT

SITE: SB

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411

SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )

SAMPLE ID: SB-30-1

QC LEVEL: AFCEE Level I

MATRIX: SO

DUP./REP. OF:

SAMPLING METHOD: DP

DATE: 1/5/00 TIME: 1520 BEGINNING DEPTH: 0 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ 206	SLS

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge X Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

THER:

CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:

FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
QC LEVEL AFCEE Level I
MATRIX SO
SAMPLING METHOD DP

SAMPLE ID: SB-30-2
DUP./REP. OF:
DATE: 1/5/00 TIME: 1530 BEGINNING DEPTH: 6 END DEPTH: 8

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ ~~qpl~~	SLS

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge X Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
QC LEVEL AFCEE Level I
MATRIX SO
SAMPLING METHOD DP

SAMPLE ID: SB-31-1
DUP./REP. OF:
DATE: 1/5/00 TIME: 0920 BEGINNING DEPTH: 0.5 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
4oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS

*48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER:
CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: [signature] OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
SAMPLE ID: SB-31-2
QC LEVEL: AFCEE Level I
MATRIX: SO
SAMPLING METHOD: DP
DUP./REP. OF:
DATE: 1/5/20 TIME: 0930 BEGINNING DEPTH: 5 END DEPTH: 7

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS

* 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: [signature] OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
QC LEVEL: AFCEE Level I
MATRIX: SO
SAMPLING METHOD: DP

SAMPLE ID: SB-32-1
DUP./REP. OF:
DATE: 1/5/00 TIME: 0955 BEGINNING DEPTH: 0.5 END DEPTH: 2.0

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8082	PCB Compounds	SLS
			NONE	D2216	Moisture	

* 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge X Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER:
CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: [signature] OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
SAMPLE ID: SB-32-2
QC LEVEL AFCEE Level I
MATRIX SO
DUP./REP. OF:
SAMPLING METHOD DP DATE: 1/5/00 TIME: 1000 BEGINNING DEPTH: 4 END DEPTH: 6

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8082	PCB Compounds	SLS
			NONE	D2216	Moisture	

* 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge X Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )

SAMPLE ID: Duplicate D

QC LEVEL: AFCEE Level I
MATRIX: SO
SAMPLING METHOD: DP

DUP./REP. OF: SB-32-2

DATE: 4/5/00 TIME: 1200 BEGINNING DEPTH: 4 END DEPTH: 4

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8082	PCB Compounds	SLS
			NONE	D2216	Moisture	

* 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge X Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER:
CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
SAMPLE ID: SB-32-2QA
QC LEVEL: AFCEE Level I
MATRIX: SO
DUP./REP. OF:
SAMPLING METHOD: DP
DATE: 4/5/00 TIME: 1000 BEGINNING DEPTH: 4 END DEPTH: 6

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8082	PCB Compounds	ACRA
			NONE	D2216	Moisture	

COE QA Split Sample

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge ✓ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER:
SHIPMENT VIA:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____ FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: ACRA: Acura Analytical Laboratory, Inc., 6017 Financial Drive, Norcross, GA 30071

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
SAMPLE ID: SB-33-1
QC LEVEL: AFCEE Level I
MATRIX: SO
DUP./REP. OF:
SAMPLING METHOD: DP
DATE: 1/5/00 TIME: 1140 BEGINNING DEPTH: 0.5 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8082	PCB Compounds	SLS

* 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge ✓ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION ___ AMBIENT TEMP ___

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: [signature] OBSERVER:

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
QC LEVEL AFCEE Level I
MATRIX SO
SAMPLING METHOD DP

SAMPLE ID: SB-33-1MS/MSD
DUP./REP. OF:
DATE: 1/5/00 TIME: 1140 BEGINNING DEPTH: 0.5 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8082	PCB Compounds	SLS
			NONE	D2216	Moisture	

* 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge X Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION ___ AMBIENT TEMP ___

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: [signature] OBSERVER:

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE (✓)
SAMPLE ID: SB-33-2
QC LEVEL: AFCEE Level I
MATRIX: SO
DUP./REP. OF:
SAMPLING METHOD: DP
DATE: 1/5/00 TIME: 1145 BEGINNING DEPTH: 3 END DEPTH: 5

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8082	PCB Compounds	SLS

* 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge X Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: [signature] OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
SAMPLE ID: SB-34-1
QC LEVEL: AFCEE Level I
MATRIX: SO
SAMPLING METHOD: DP
DUP./REP. OF:
DATE: 1/5/00 TIME: 12:15 BEGINNING DEPTH: 0 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8081A	Pesticides	SLS

4 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge X Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER: ✓ SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION E ___ AMBIENT TEMP ___

SHIPMENT VIA: FED-X ✓ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: T.M. KELLAR OBSERVER: M. JESSUP

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
SAMPLE ID: SB-34-2
QC LEVEL: AFCEE Level I
MATRIX: SO
DUP./REP. OF:
SAMPLING METHOD: DP
DATE: 1/5/00 TIME: 1225 BEGINNING DEPTH: 2.5 END DEPTH: 4.5

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8081A	Pesticides	SLS

* 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge ✓ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

OTHER:

SUN/CLEAR ✓ OVERCAST/RAIN ___ WIND DIRECTION E AMBIENT TEMP ___

SHIPMENT VIA: FED-X ✓ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: T.M. KELLER OBSERVER: M. JESSUP

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )

SAMPLE ID: Duplicate F

QC LEVEL: AFCEE Level I
MATRIX: SO
SAMPLING METHOD: DP

DUP./REP. OF: SB-34-2

DATE: 1/5/00 TIME: 1430 BEGINNING DEPTH: 2.5 END DEPTH: 4.5

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8081A	Pesticides	SLS
			NONE	D2216	Moisture	

ok 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge ✓ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
SUN/CLEAR ✓ OVERCAST/RAIN ___ WIND DIRECTION E AMBIENT TEMP ___

SHIPMENT VIA:
FED-X ✓ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: T KELLOR OBSERVER: M JESUP

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
QC LEVEL: AFCEE Level I
MATRIX: SO
SAMPLING METHOD: DP
SAMPLE ID: SB-35-1
DUP./REP. OF:
DATE: 1/6/00 TIME: 09:35 BEGINNING DEPTH: 0 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8081A	Pesticides	SLS

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge ✓ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

OTHER:
SUNNY/CLEAR OVERCAST/RAIN ___ WIND DIRECTION ___ AMBIENT TEMP 40's
SHIPMENT VIA: FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: T M Kelley OBSERVER: M Horner

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: SB-35-2
QC LEVEL: AFCEE Level I
MATRIX: SO
DUP./REP. OF:
SAMPLING METHOD: DP
DATE: 1/6/00 TIME: 1005 BEGINNING DEPTH: 4 END DEPTH: 6

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8081A	Pesticides	SLS

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER:
SUN/CLEAR ✓ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Thomas Keller OBSERVER: Mike Horner

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )

SAMPLE ID: SB-35-1MS/MSD

QC LEVEL: AFCEE Level I
MATRIX: SO
SAMPLING METHOD: DP
DUP./REP. OF:
DATE: 1/6/00 TIME: 9:35 BEGINNING DEPTH: 0 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ ~~90~~	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8081A.	Pesticides	SLS

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge ✓ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

OTHER:

SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: T.M. Keller OBSERVER: M. Horner

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: SB-36-1
QC LEVEL: AFCEE Level I
MATRIX: SO
DUP./REP. OF:
SAMPLING METHOD: DP
DATE: 1-6-00 TIME: 10:45 BEGINNING DEPTH: 0 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8081A	Pesticides	SLS

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ ~~Direct Push~~ _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER: SUN/CLEAR / OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA: FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Thomas Keller OBSERVER: Mike Horner

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: Duplicate C
QC LEVEL AFCEE Level I
MATRIX SO
DUP./REP. OF: SB-36-1
SAMPLING METHOD DP DATE: 1-6-00 TIME: 10145 (est) 12100 BEGINNING DEPTH: 0 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8081A	Pesticides	SLS

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ ~~Direct~~ Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER: SHIPMENT VIA:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____ FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Thomas Keller OBSERVER: Mike Horner

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )

SAMPLE ID: SB-36-1QA

QC LEVEL: AFCEE Level I
MATRIX: SO
SAMPLING METHOD: DP

DUP./REP. OF: SB-36-1

DATE: 1-6-00 TIME: 10:45 BEGINNING DEPTH: 0 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	ACRA
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	ACRA
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics (Appendix IX)	ACRA
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8081A	Pesticides	ACRA

COE QA Split Sample

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ ~~Direct~~ Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER: SHIPMENT VIA:
SUN/CLEAR ✓ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____ FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: ACRA: Acura Analytical Laboratory, Inc., 6017 Financial Drive, Norcross, GA 30071

SAMPLER: THOMAS KELLER OBSERVER: MIKE HORNOR

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: SB-36-2
QC LEVEL: AFCEE Level I
MATRIX: SO
DUP./REP. OF:
SAMPLING METHOD: DP
DATE: 1-6-00 TIME: 12:15 BEGINNING DEPTH: 2 END DEPTH: 3

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ 2010	SLS

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ ~~Direct~~ Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

THER:
/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Thomas Keller OBSERVER: Mike Horner

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: SB-37-1
QC LEVEL AFCEE Level I
MATRIX SO
DUP./REP. OF:
SAMPLING METHOD DP DATE: 1-6-00 TIME: 13:30 BEGINNING DEPTH: 0 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8081A	Pesticides	SLS

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge X Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER: SHIPMENT VIA:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____ FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: T. M. KELLER OBSERVER: MIKE HORNER

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: SB-37-2
QC LEVEL: AFCEE Level I
MATRIX: SO
DUP./REP. OF:
SAMPLING METHOD: DP
DATE: 1-6-00 TIME: 13:45 BEGINNING DEPTH: 2 END DEPTH: 3

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX) 2014~~	SLS

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge ✓ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER: SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA: FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: T.M. KELLER OBSERVER: MIKE HORNER

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: SB-38-1
QC LEVEL AFCEE Level I
MATRIX SO
DUP./REP. OF:
SAMPLING METHOD DP DATE: 01/04/00 TIME: 10:50 BEGINNING DEPTH: 0 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~	SLS

of 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar _ Dredge ✓ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER: (SUN/CLEAR) ___ OVERCAST/RAIN ___ WIND DIRECTION ___ AMBIENT TEMP 65° SHIPMENT VIA: FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: T. M. Keller OBSERVER: Michelle Jessup

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
QC LEVEL AFCEE Level I
MATRIX SO
SAMPLING METHOD DP

SAMPLE ID: SB-38-2
DUP./REP. OF:
DATE: 1/4/00 TIME: 1110 BEGINNING DEPTH: 3.5 END DEPTH: 5.5

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ Gold	SLS

* 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

THER:
./CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (√) COMPOSITE ( )
SAMPLE ID: Duplicate E
QC LEVEL AFCEE Level I
MATRIX SO
DUP./REP. OF: SB-38-2
SAMPLING METHOD DP
DATE: 1/4/00 TIME: 1110 BEGINNING DEPTH: 3.5 END DEPTH: 5.5

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ 30	SLS

* 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
SAMPLE ID: SB-38-2QA
QC LEVEL: AFCEE Level I
MATRIX: SO
DUP./REP. OF: SB-38-2
SAMPLING METHOD: DP
DATE: 1/4/00 TIME: 1110 BEGINNING DEPTH: 3.5 END DEPTH: 5.5

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	ACRA
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	ACRA

COE QA split Sample

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

OTHER:
SHIPMENT VIA:
…/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____ FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: ACRA: Acura Analytical Laboratory, Inc., 6017 Financial Drive, Norcross, GA 30071

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
SAMPLE ID: SB-38-W
QC LEVEL: AFCEE Level I
MATRIX: WG
DUP./REP. OF:
SAMPLING METHOD: BP
DATE: 1/4/00 TIME: 1730
BEGINNING DEPTH: END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	3	HCL, Cool to 4 °	SW5030B	SW8260B	Volatile Organic Compounds	SLS
1 L Amber Glass	2	Cool to 4 °C	SW3520C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ 8270	SLS

Temporary Piezometer Water Sample

Time (hrs:mins)												
Volume Purged (gals)												
Temperature (Celsius)												
pH												
Specific Conductance (uS)												
Dissolved Oxygen (mg/L)												
Turbidity (NTU)												
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FACILITY I.D. : HUNT

SITE : SB

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411

SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )

SAMPLE ID: **Duplicate-TP**

QC LEVEL AFCEE Level I

MATRIX WG

DUP./REP. OF: SB-38-W

SAMPLING METHOD BP DATE: 1/4/00 TIME: 1730 BEGINNING DEPTH: END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	3	HCL, Cool to 4 °	SW5030B	SW8260B	Volatile Organic Compounds	SLS
1 L Amber Glass	2	Cool to 4 °C	SW3520C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ ~~4pH~~	SLS

Temporary Piezometer Water Duplicate Sample

Time (hrs:mins)												
Volume Purged (gals)												
Temperature (Celsius)												
pH												
Specific Conductance (uS)												
Dissolved Oxygen (mg/L)												
Turbidity (NTU)												
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

ATHER:

SHIPMENT VIA:

UN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____ FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
QC LEVEL AFCEE Level I
MATRIX SO
SAMPLING METHOD DP

SAMPLE ID: SB-39-1
DUP./REP. OF:
DATE: 1/4/00 TIME: 1445 BEGINNING DEPTH: 0 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS

* 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER: SHIPMENT VIA:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____ FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
SAMPLE ID: SB-39-2
QC LEVEL: AFCEE Level I
MATRIX: SO
DUP./REP. OF:
SAMPLING METHOD: DP
DATE: 1/4/00 TIME: 1500 BEGINNING DEPTH: 2 END DEPTH: 4

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS

~~X~~ 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

THER:
SHIPMENT VIA:
…/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____ FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___
SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
QC LEVEL AFCEE Level I
MATRIX SO
SAMPLING METHOD DP

SAMPLE ID: SB-40-1
DUP./REP. OF: -
DATE: 1/4/00 TIME: 1250 BEGINNING DEPTH: 0 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS

* 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (✓) COMPOSITE ( )
QC LEVEL AFCEE Level I
MATRIX SO
SAMPLING METHOD DP

SAMPLE ID: SB-40-2
DUP./REP. OF: -
DATE: 1/4/00 TIME: 1305 BEGINNING DEPTH: 2 END DEPTH: 4

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
2oz w/mouth jar	1	Cool to 4 °C	NONE	D2216	Moisture	SLS
5-gram ENCORE	3	Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS

* 48 hr TAT

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

THER:
./CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: SB-40-W
QC LEVEL AFCEE Level I
MATRIX WG
DUP./REP. OF: -
SAMPLING METHOD BP DATE: TIME: BEGINNING DEPTH: END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	3	HCL, Cool to 4 °	SW5030B	SW8260B	Volatile Organic Compounds	SLS
1 L Amber Glass	2	Cool to 4 °C	SW3520C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~ 1,4	SLS

Temporary Piezometer Water Sample

Time (hrs:mins)													
Volume Purged (gals)													
Temperature (Celsius)													
pH													
Specific Conductance (uS)													
Dissolved Oxygen (mg/L)													
Turbidity (NTU)													
Redox Potential (mV)													
Alkalinity (mg/L)													
Ferrous Iron (mg/L)													
Sulfide (mg/L)													
CarbonDioxide (mg/L)													

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )

SAMPLE ID: SB41-1

QC LEVEL: AFCEE Level I
MATRIX: SO
SAMPLING METHOD: DP

DUP./REP. OF:

DATE: 1-31-00 TIME: 11:46 BEGINNING DEPTH: 0 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organic Compounds	ASI

48 hr TAT

Sample Equipment: X Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

OTHER:

./CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA: FED-X ___ HAND DELIVER ✓ COURIER ___ OTHER ___

SHIPPED TO: ASI: Analytical Services Incorporated, 110 Technology Parkway, Norcross, GA 30092

SAMPLER: Victor Clarke OBSERVER: Michelle L Jessup

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (X) COMPOSITE ( )
SAMPLE ID: SB41-2
QC LEVEL: AFCEE Level I
MATRIX: SO
DUP./REP. OF:
SAMPLING METHOD: DP
DATE: 1/31/00 TIME: 1232 BEGINNING DEPTH: 3 END DEPTH: 5

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organic Compounds	ASI

48 hr TAT

* HOLD sample until results are received from SB41-1.

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
SUN/CLEAR ✓ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: ASI: Analytical Services Incorporated, 110 Technology Parkway, Norcross, GA 30092

SAMPLER: Victor Clarke
OBSERVER:

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: SB42-1
QC LEVEL: AFCEE Level I
MATRIX: SO
DUP./REP. OF:
SAMPLING METHOD: DP
DATE: 1/31/00 TIME: BEGINNING DEPTH: 0 END DEPTH: 2

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organic Compounds	ASI

48 hr TAT

Sample Equipment: X Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

OTHER:

SHIPMENT VIA:

.../CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____ FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: ASI: Analytical Services Incorporated, 110 Technology Parkway, Norcross, GA 30092

SAMPLER: Vicki Clarke OBSERVER: Michelle L Jessup

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : SB

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
QC LEVEL: AFCEE Level I
MATRIX: SO
SAMPLING METHOD: DP

SAMPLE ID: SB42-2
DUP./REP. OF:
DATE: 1/31/00 TIME: 1428 BEGINNING DEPTH: 2 END DEPTH: 3

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
4oz w/mouth jar	1	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organic Compounds	ASI

48hr TAT

* HOLD sample until results are received from SB42-1.

Sample Equipment: X Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ✓ OTHER ___

SHIPPED TO: ASI: Analytical Services Incorporated, 110 Technology Parkway, Norcross, GA 30092

SAMPLER: Victor Clarke OBSERVER: Michelle L Jessup

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : IDW

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: HAAFIDW-W
QC LEVEL: AFCEE Level I
MATRIX: WH
SAMPLING METHOD: NA
DUP./REP. OF:
DATE: 1/31/02 TIME: 1137 BEGINNING DEPTH: END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	✓3	HCL, Cool to 4 °	SW5030B	SW8260B	Volatile Organic Compounds	SLS
1 L Amber Glass	✓2	Cool to 4 °C	SW3520C	SW8270C	Semi-Volatile Organics ~~(Appendix IX) Opu~~	SLS
~~1 L~~ Poly 500 mL	✓1	HNO3, Cool to 4	SW3005A METHOD	SW6010B SW7470A	ICP Metals (As,Ba,Cd,Cr, Pb,Ag,Se) Total Mercury	SLS
1 L Amber Glass	✓1	Cool to 4 °C	SW3550C	SW8081A	Pesticides	SLS
100 ml Poly	✓1	Cool to 4 °C	NONE	E150.1	pH	SLS
125 ml Amber Gl	✓1	H2SO4,Cool to 4	NONE	E420.1	Phenols	SLS
500 ml Amber Gl	✓1	H2SO4,Cool to 4	NONE	E413.2	Oil & Grease	SLS

Drummed Water Composite Sample

Time (hrs:mins)													
Volume Purged (gals)													
Temperature (Celsius)													
pH													
Specific Conductance (uS)													
Dissolved Oxygen (mg/L)													
Turbidity (NTU)													
Redox Potential (mV)													
Alkalinity (mg/L)													
Ferrous Iron (mg/L)													
Sulfide (mg/L)													
CarbonDioxide (mg/L)													

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
N/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ✓ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Victor Clarke OBSERVER: Michelle L Jessee

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : FIELD

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: HAAFEB-W
QC LEVEL AFCEE Level I
MATRIX WQ
DUP./REP. OF:
SAMPLING METHOD NA DATE: 1-16-00 TIME: 11:17 BEGINNING DEPTH: — END DEPTH: —

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	3	HCL, Cool to 4 °	SW5030B	SW8260B	Volatile Organic Compounds	SLS
1 L Amber Glass	2	Cool to 4 °C	SW3520C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~	SLS
1 ~~L Poly~~ 500 ml Poly	1	HNO3, Cool to 4	SW3005A	SW6010B	Total ICP Metals (As, Ba, Pb)	SLS

Equipment Blank - Groundwater

Time (hrs:mins)												
Volume Purged (gals)												
Temperature (Celsius)												
pH												
Specific Conductance (uS)												
Dissolved Oxygen (mg/L)												
Turbidity (NTU)												
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Victor Clarke & ~~Mike Horner~~ OBSERVER: Mike Horner

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : FIELD

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
QC LEVEL AFCEE Level I
MATRIX WQ
SAMPLING METHOD NA

SAMPLE ID: HAAFEB-SO
DUP./REP. OF:
DATE: 1/04/03 TIME: 10:00 BEGINNING DEPTH: END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	3	HCL,Cool to 4 °C	SW5035	SW8260B	Volatile Organic Compounds	SLS
1 L Amber Glass	2	Cool to 4 °C	SW3550C	SW8270C	Semi-Volatile Organics ~~(Appendix IX)~~	SLS
1 L Amber Glass	2	Cool to 4 °C	SW3550C	SW8081A	Pesticides	SLS
			SW3550C	SW8082	PCB Compounds	

Equipment Blank for Soil Samples

Time (hrs:mins)												
Volume Purged (gals)												
Temperature (Celsius)												
pH												
Specific Conductance (uS)												
Dissolved Oxygen (mg/L)												
Turbidity (NTU)												
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push ✓ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

WEATHER: CLEAR ✓ OVERCAST/RAIN ___ WIND DIRECTION ___ AMBIENT TEMP ___

SHIPMENT VIA: FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: T M. KELLER OBSERVER: MICHELLE JESSUP

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : FIELD

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB (X) COMPOSITE ( )
SAMPLE ID: HAAFTB-W1
QC LEVEL AFCEE Level I
MATRIX WQ
SAMPLING METHOD NA
DUP./REP. OF:
DATE: 1/4/00 TIME: 1830 BEGINNING DEPTH: END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	2	HCL,Cool to 4 °C	SW5030B	SW8260B	Volatile Organic Compounds	SLS

Trip Blank

Time (hrs mins)												
Volume Purged (gals)												
Temperature (Celsius)												
pH												
Specific Conductance (uS)												
Dissolved Oxygen (mg/L)												
Turbidity (NTU)												
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: OBSERVER:

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : FIELD

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
QC LEVEL AFCEE Level I
MATRIX WQ
SAMPLING METHOD NA

SAMPLE ID: HAAFTB-W2
DUP./REP. OF:
DATE: 1/5/02 TIME: 1200
BEGINNING DEPTH: END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	2	HCL,Cool to 4 °C	SW5030B	SW8260B	Volatile Organic Compounds	SLS

Trip Blank

Time (hrs:mins)												
Volume Purged (gals)												
Temperature (Celsius)												
pH												
Specific Conductance (uS)												
Dissolved Oxygen (mg/L)												
Turbidity (NTU)												
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: | ODOR: | OTHER:

OTHER:

CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: Thomas M Keller

OBSERVER: (Michael Horner)

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : FIELD

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
SAMPLE ID: HAAFTB-W3
QC LEVEL: AFCEE Level I
MATRIX: WQ
DUP./REP. OF:
SAMPLING METHOD: NA DATE: TIME: BEGINNING DEPTH: END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	2	HCL,Cool to 4 °C	SW5030B	SW8260B	Volatile Organic Compounds	SLS

Trip Blank

Time (hrs:mins)												
Volume Purged (gals)												
Temperature (Celsius)												
pH												
Specific Conductance (uS)												
Dissolved Oxygen (mg/L)												
Turbidity (NTU)												
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER:
SUN/CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA:
FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: OBSERVER:

FIELD SAMPLING REPORT

FACILITY I.D. : HUNT
SITE : FIELD

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
112 TOWN PARK DRIVE, KENNESAW, GA 30144-5569
PHONE: (770) 421-3400 / FAX: (770) 421-3486

PROJECT #: 12001-9-3411
SUB-PROJECT #:

GRAB ( ) COMPOSITE ( )
QC LEVEL AFCEE Level I
MATRIX WQ
SAMPLING METHOD NA

SAMPLE ID: HAAFTB-W4
DUP./REP. OF:
DATE: TIME: BEGINNING DEPTH: END DEPTH:

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	LAB CODE
40 ml VOA	2	HCL,Cool to 4 °C	SW5030B	SW8260B	Volatile Organic Compounds	SLS

Trip Blank

Time (hrs:mins)												
Volume Purged (gals)												
Temperature (Celsius)												
pH												
Specific Conductance (uS)												
Dissolved Oxygen (mg/L)												
Turbidity (NTU)												
Redox Potential (mV)												
Alkalinity (mg/L)												
Ferrous Iron (mg/L)												
Sulfide (mg/L)												
CarbonDioxide (mg/L)												

Sample Equipment: _ Hand Auger _ Bailer _ Ponar Dredge _ Direct Push _ Split Spoon _ Bladder Pump _ Hydro-cone _ HydroPunch

COLOR: ODOR: OTHER:

WEATHER: CLEAR ___ OVERCAST/RAIN ___ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA: FED-X ___ HAND DELIVER ___ COURIER ___ OTHER ___

SHIPPED TO: SLS: Savannah Labs, 5102 LaRoche Ave, Savannah Ga 31404

SAMPLER: _____ OBSERVER: _____

FIELD SAMPLING REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO. 12001-9-3411
JOB NAME HAAF FTA
DATE 7/22/99 TIME 10:25/10:40
SAMPLING POINT SB-26
LOCATION FTA

SAMPLE INFORMATION SAMPLE I.D. NO. SB-26-1 SB-26-2

MATERIAL: _____ WATER X SOIL _____ SLUDGE _____ OTHER (LIST) _____

TYPE: X GRAB _____ COMPOSITE _____ OTHER (LIST) _____

HAZARDOUS?: _____ YES X NO

CONTAINER TYPE	CONTAINER VOLUME	NUMBER	PRESERVATIVE/ PREPARATION	COMMENTS
Encore	~5 g	3	None	SB-26-1 1.5'
Glass	2 oz	1	↓	↓ ↓
Glass	4 oz	1	↓	↓ ↓
Encore	~5g	3	None	SB-26-2 5.5'
Glass	2 oz	1		
Glass	4 oz	1	↓	↓ ↓

COMMENTS: (WELL PURGING VOLUME: SAMPLE APPEARANCE: ODOR; COLOR: ETC.)
Black / DK Brown Stained Sand Petroleum Odor

Duplicate A collected @ SB-26-1 (3 Encores, 1 2oz Glass, 1 4oz Glass)

LABORATORY RECEIPT: DATE/TIME _____ CONDITION _____

COMMENTS: (CALIBRATIONS, FIELD MODIFICATIONS, INSTRUMENT PROBLEMS)

FIELD MEASUREMENTS SAMPLES COLLECTED BY: PK / KB

PARAMETER	EQUIPMENT I.D.	RESULTS (UNITS)	COMMENTS

GENERAL INFORMATION WEATHER Sunny AIR TEMP. 95° F

SAMPLES SHIPPED TO: Savannah Labs

SPECIAL HANDLING: _____

MODE OF SHIPMENT: X Car/Truck _____ BUS _____ PLANE _____ COURIER

WELL DEVELOPMENT FORMS

WELL DEVELOPMENT DATA

PROJECT NAME Hunter Army Airfield PROJECT NO. 11-3551-0320

DEVELOPED BY Hatchcowell/Bill Craig CHECKED BY [illegible] SHEET 1 OF 4

WELL NO. HMW-10 SITE LOCATION Fire Training Area

1. a. Date of installation: 10-03-95 b. Date of development: 10-07-95 & 10-09-9
2. Static Water Level
   a. Before development: 7.54 (TOC) ft. date/time 10-07-95 823
   b. At least 24 hrs. after development: 7.63 (TOC) ft. date/time 10-10-95 906
3. Organic Vapor
   a. Before development: 0 ppm b. After development: 0 ppm
4. Quantity of water loss during drilling, if used: 0 gal.
5. Quantity of standing water in well and annulus before development: 8.77 gal.
6. Depth from top of well casing to bottom of well: 16.31 ft. (from well installation diagram)
7. a. Well diameter: 2 in. b. Screen length: 10.17 ft.
8. Minimum quantity of water to be removed: 177.12 gal. (attach calculation)
9. Depth to Top of Sediment
   a. Before development: 16.09 ft. b. After development: 16.09 ft.
10. Physical character of water (before/after development): before - grayish color, slight fuel odor
    after - water has a grayish tint
11. Type and size of well development equipment: 2in x 5ft PVC/stainless steel airlift pump manufactured by QED Groundwater Specialist, powered driven by oil less air compressor
12. Description of surge technique, if used: manually surged with airlift pump with surge rings and wiper attached
13. Height of well casing above ground surface: 2.8 ft. (from well installation diagram)
14. a. Quantity of water removed: 49.5 gal. b. Time for removal: 4 hrs 25 mins hr./min.
15. a. -Liter water sample collected: 1016 (10-09-95) (time) b. Wate: sample photographed? YES NO (circle one)
16. Final turbidity in nephelometric units: 49 NTUs
17. Final Imhoff cone measurements < 0.75 mL/L, if applicable: NA

HF – Rev. 7'

1

WELL DEVELOPMENT DATA (continued)

PROJECT NAME Hunter Army Airfield PROJECT NO. 11-3551-0320

DEVELOPED BY ~~Ha~~Ros Leswell/Bill Craig CHECKED BY _____ SHEET 2 OF 4

WELL NO. HMW-10 SITE LOCATION Fire Training Area

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
10-07-95 831	0	0	—	—	—	—	5 min Surge
10-07-95 839	8	0	5.73	68.2	193	>200	Gray color, Slight odor, fa
10-07-95 846	15	—	—	—	—	—	stop pump, to fix Pump
10-07-95 856	25	—	—	—	—	—	Start pump
10-07-95 933	60	6	6.27	66.4	137	7200	gray color almost Dr stopped pump
10-07-95 1019	62	6	—	—	—	—	changed pump 5 min Sur
10-07-95 1032	75	6.5	6.07	68.2	146	7200	gray color, foam c
10-07-95 1038	81	12	5.67	68.8	127	>200	well almost dry Pumped stopped allow for recha
10-07-95 1509	81	12	—	—	—	—	11.54-wl (TOC) 5 min surge Start pump
10-07-95 1510	82	12	5.78	71.6	121	7200	gray color
10-07-95 1519	91	18	5.47	71.3	117	>200	Purged dry 3rd stop pump
10-08-95 1455	91	18	5.36	73.3	114	>200	manually purge
10-08-95 1505	101	24	5.30	69.9	104	7200	brownish-gray color, foamy
10-08-95 1523	119	29	5.58	69.0	102	7200	foamy, gray color
10-08-95 1544	140	34	5.47	68.4	103	7200	

HF - Rev.

WELL DEVELOPMENT DATA (continued)

PROJECT NAME Hunter Army Airfield PROJECT NO. 11-3651-0320

DEVELOPED BY Heather Rodwell/Bill Craig CHECKED BY gw SHEET 3 OF 4

WELL NO. HMW-10 SITE LOCATION Fire Training Area

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
10-09-95 1556	152	36.5	5.58	67.9	108	158.1	clearing
10-09-95 1612	168	40.0	5.42	67.8	103	159.4	
10-09-95 1637	193	45.0	5.28	68.4	106	113.8	clearing foamy
10-09-95 1647	203	45.5	—	—	—	—	stop purge NTUs will not lower
10-09-95 915	203	45.5	-	-	-	-	Start manual Purge
10-09-95 0915	204	45.5	5.59	65.5	107	85.5	clearing
10-09-95 933	222	47	5.38	65.2	106	69.8	
10-09-95 947	236	48	5.56	65.0	106	55.7	slightly foamy
10-09-95 0955	244	48.5	—	—	—	50.6	clearing
10-09-95 1001	250	49	—	—	—	56.9	
10-09-95 1016	265	49.5	5.47	65.4	96	49	

HF - Rev. 7/95

$$V = 3.14 [(.50 - .03) * .3 + .03]$$

$$= .54 \times 8.77 \times 7.48$$

$$= 35.42$$

$$5 \times V = 177.12$$

HMW-10
Hunter Army Airfield
11-3551-0320
10/07/95

HAL

WELL DEVELOPMENT DATA

PROJECT NAME Hunter Army Airfield PROJECT NO. 11-3551-0320

DEVELOPED BY Heather Caswell / Bill Craig CHECKED BY Meyer SHEET 1 OF 4

WELL NO. HMW-11 SITE LOCATION Fire training Area

1. a. Date of installation: 10-03-95 b. Date of development: 10-06-95 to 10-07-95
2. Static Water Level
   a. Before development: 11.03 (TOC) ft. date/time 10-06-95 1448
   b. At least 24 hrs. after development: 11.21 ft. date/time 10-08-95 1816
3. Organic Vapor
   a. Before development: 0 ppm b. After development: 0 ppm
4. Quantity of water loss during drilling, if used: 0 ga
5. Quantity of standing water in well and annulus before development: 7.21 ga
6. Depth from top of well casing to bottom of well: 18.24 ft. (from well installation diagram
7. a. Well diameter: 2 in. b. Screen length: 10.17 ft
8. Minimum quantity of water to be removed: 145.61 gal. (attach calculation
9. Depth to Top of Sediment
   a. Before development: 18.02 ft. b. After development: 18.02 ft
10. Physical character of water (before/after development): before - gray color; silty after - slight discoloration
11. Type and size of well development equipment: 2-in x 5ft pvc/stainless steel air lift pump manufactured by QED Groundwater specialist, power driven by oil less air compressor
12. Description of surge technique, if used: manually surged with air lift pump with surge rings and wiper attached
13. Height of well casing above ground surface: 2.0 ft. (from well installation diagram
14. a. Quantity of water removed: 19 gal. b. Time for removal: 1 hr 37 min hr./min
15. a. 1-Liter water sample collected: 1450 (10-07-95) (time) b. Water sample photographed? YES NO (circle one)
16. Final turbidity in nephelometric units: 45.2 NTUs
17. Final Imhoff cone measurements < 0.75 mL/L, if applicable: N/A

HF – Rev. 7/95

WELL DEVELOPMENT DATA (continued)

PROJECT NAME Hunter Army Airfield PROJECT NO. 11-3551-0320

DEVELOPED BY Heather Lowell/Bill Craig CHECKED BY _____ SHEET 2 OF 2

WELL NO. HMW-11 SITE LOCATION Fire training Area

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
10-05-95 1449	0	0	—	—	—	—	5 min surge
10-06-95 1457	8	0	5.91	74.8	236	>200	gray color, s. city
10-06-95 1503	14	3	6.20	74.8	155	>200	gray color, s. city fuel odor
10-06-95 1505	16	3	—	—	—	Pumped stopped, allow to recha	purged dry
10-07-95 753	16	3.5	5.40	68.8	182	>200	start pump WL= sheen on top
10-07-95 801	24	5	6.09	68.5	141	>200	almost dry Purged Stopped, allow
10-07-95 946	24	5.5	6.03	68.9	186	7200	start pump WL=11.02 TOC
10-07-95 954	35	7	6.52	69.4	175	7200	well dry, Stopp pump
10-07-95 1346	35	7	5.59	73.8	153	38.5	manually bailed purge dry 3 times
10-07-95 1406	55	12	6.00	75.0	166	7200	
10-07-95 1413	62	13.5	6.02	73.5	165	>200	clearing
10-07-95 1419	68	14	6.08	72.2	165	165.9	
10-07-95 1422	71	14.5	6.01	71.8	166	1155	
10-07-95 1432	81	15.5	6.03	71.6	166	99.9	slight fuel odor
10-07-95 1442	91	17.5	6.04	71.8	169	59.4	

HF - Rev. 7'95

WELL DEVELOPMENT DATA (continued)

PROJECT NAME Hunter Army Airfield PROJECT NO. 11-35351-0326

DEVELOPED BY Peter Lowell/Bill Craig CHECKED BY _____ SHEET 3 OF 4

WELL NO. HMW-11 SITE LOCATION Fire Training Area

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
10-0795 1449	97	19	6.07	71.8	168	452	manual purge stopped below 60 NTUs

HF – Rev. 7/

$$V = 3.14\left[(.50-.03)^2 .3 + .03\right]$$

$$= .54 \times 7.21 \times 7.48$$

$$= 29.12$$

$$5x\ V = 145.61$$

HMW-11
Hunter Army Airfie
11-3551-0320
10/06/95
HA

WELL DEVELOPMENT DATA

PROJECT NAME Hunter Army Airfield PROJECT NO. 11-3551-0320

DEVELOPED BY Heather Lasvell/Bill Craig CHECKED BY _____ SHEET 1 OF 3

WELL NO. HMW-12 SITE LOCATION Ere Training Area

1. a. Date of installation: 10-02-95 b. Date of development: 10-05-95 to 10-06-95
2. Static Water Level
   a. Before development: 11.50 (TOC) ft. date/time 8:25 10-05-95
   b. At least 24 hrs. after development: 11.59 (TOC) ft. date/time 1743 10-08-95
3. Organic Vapor
   a. Before development: 0 ppm b. After development: 0 ppm
4. Quantity of water loss during drilling, if used: 0 gal
5. Quantity of standing water in well and annulus before development: 28.2 gal
6. Depth from top of well casing to bottom of well: ~~18.48~~ 18.71 (TOC) ft. (from well installation diagram)
7. a. Well diameter: 8.5 in. b. Screen length: 10.17 ft
8. Minimum quantity of water to be removed: 140.96 gal. (attach calculation)
9. Depth to Top of Sediment
   a. Before development: 18.48 ft. b. After development: 18.48 ft.
10. Physical character of water (before/after development): Before - no odor, brown color
    after - no odor, water is clear
11. Type and size of well development equipment: 2in x 5ft pvc/stainless steel air lift pump manufactured by QED Groundwater specialist power driven by oilless air compressor
12. Description of surge technique, if used: manually surged with air lift pump with surge ring and wiper attached
13. Height of well casing above ground surface: 2.8 ft. (from well installation diagram)
14. a. Quantity of water removed: 141 gal. b. Time for removal: 4 hrs 55 mins hr./min.
15. a. Final water sample collected: 1300 (10-06-95) (time) b. Water sample photographed? YES NO (circle one)
16. Final turbidity in nephelometric units: 15.2 NTUs
17. Final Imhoff cone measurement for 0.75 mL/L, if applicable: N/A

HF – Rev. 7/95

WELL DEVELOPMENT DATA (continued)

PROJECT NAME Hunter Army Airfield PROJECT NO. 113551-0320

DEVELOPED BY Heather Lowell/B. Craig CHECKED BY [illegible] SHEET 2 OF 2

WELL NO. HMW-12 SITE LOCATION Fire Training Area

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
10-05-95 0931	5 min surge	1	5.69	68.5	134	>200	no odor, brown color, some silt & sand present
10-05-95 0958	38	15	5.02	70.0	124 ~~158~~	7200	clearing, stop pump, allow rec
10-05-95 1017	51	15.5	5.00	71.3	140	>200	5 min surge, brown color, sl/sit
10-05-95 1048	82	30	4.75	70.1	127	7200	clearing, stop pump, allow recha
10-05-95 1110	104	30.5	4.94	70.8	123	>200	5 min surge brown color
10-05-95 1149	143	55	—	—	—	—	clearing, stop pump, lo
10-05-95 1320	143	57	4.62	71.4	149	>200	start pump clearing
10-05-95 1351	174	77	4.55	70.7	121	199.2	clearing
10-05-95 1407	190	80	4.57	71.1	121	150.1	stop pump - allow recharge - clear slight odor
10-05-95 1500	—	—	—	—	—	—	stop pump
10-06-95 1115	190	80	5.07	70.8	139	>200	start pump
10-06-95 1145	220	103	4.61	70.5	162	121.2	
10-06-95 1220 ~~1229~~	~~255~~	125	4.68	71.1	157	415	clearing
10-06-95 1300	295	141	4.64	70.4	148	15.2	clear
~~10-06-95~~	—	—	—	—	—	—	—

HF - Rev. 7/95

$$V = 3.14\left[(.50 - .03) \cdot 3 + .03\right]$$

$$= .54 \times 6.98 \times 7.48$$

$$= 28.2$$

$5 \times V$

140.96

WELL DEVELOPMENT DATA

PROJECT NAME Hunter Army Airfield PROJECT NO. 11-3551-0320

DEVELOPED BY Bothedewell/Bill Craig CHECKED BY Mayer SHEET 1 OF 2

WELL NO. HMW-13 SITE LOCATION Fire Training Area

1. a. Date of installation: 10-03-95 b. Date of development: 10-08-95
2. Static Water Level
   a. Before development: 12.81 ft. date/time 10-08-95 832
   b. At least 24 hrs. after development: 12.93 ft. date/time 10-09 95 1031
3. Organic Vapor
   a. Before development: 6 ppm b. After development: 0 ppm
4. Quantity of water loss during drilling, if used: 0 gal
5. Quantity of standing water in well and annulus before development: 2 gal
6. Depth from top of well casing to bottom of well: 20.81 ft. (from well installation diagram
7. a. Well diameter: 2 in. b. Screen length: 10.17 ft
8. Minimum quantity of water to be removed: 157.73 gal. (attach cal on
9. Depth to Top of Sediment
   a. Before development: 20.62 ft. b. After development: 20.60 ft
10. Physical character of water (before/after development): before - first few gals were grey then clearing for after - the water appears clearer
11. Type and size of well development equipment: 2in x 5ft PVC/stainless airlift pump manufa by QED Groundwater Specialist, power driven by oilless air compress
12. Description of surge technique, if used: manually surged with airlift pump with surge rings and wipes attached
13. Height of well casing above ground surface: 2.5 ft. (from well installation diagram)
14. a. Quantity of water removed: 158 gal. b. Time for removal: 4hrs 2 mins hr./min.
15. a. 1-Liter water sample collected: 1241 (time) b. Water sample photographed? YES NO (circle one)
16. Final turbidity in nephelometric units: 9.7 NTUs
17. Final Imhoff cone measurements < 0.75 mL/L, if applicable: NA

HF – Rev. 7/95

WELL DEVELOPMENT DATA (continued)

PROJECT NAME Hunter Army Airfield PROJECT NO. 11-3551-0320

DEVELOPED BY Hollerdowell/Bill Gray CHECKED BY QC SHEET 2 OF 3

WELL NO. HAW-13 SITE LOCATION Fire Training Area

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
10-08-95 0835	0	0	—	—	—	—	Begin the 5 min surge
10-08-95 0844	9	0	5.80	63.8	260	>200	gray color foamy
10-08-95 0918	43	31.5	5.95	65.3	251	39.4	clearing pump stopped/foamy allow recharge
10-08-95 0938	63	31.5	5.89	65.6	245	>200	5 min surge pu... turned gray col... foamy
10-08-95 0950	75	36.	5.93	67.0	255	>200	clearing fuel odor
10-08-95 1006	93	55	5.96	67.0	252	48.5	clearing
10-08-95 1030	115	73	5.94	68.1	249	64.6	stop pump allow for recharge
10-08-95 1050	135	73.5	6.41	69.3	205	>200	5 min surge fuel odor gray color
10-08-95 1155	200	124	5.87	69.7	239	36.2	clearing
10-08-95 1220	225	137	5.92	70.3	251	14.9	Clearing
10-08-95 1241	246	158	5.94	70.3	242	9.7	

HF – Rev. 7.95

$$V = 3.14[(.50 - .03) * .3 + .03]$$

$$= .54 \times 7.81 \times 7.48$$

$$= 31.55$$

$5x\ V =$ 157.73 ~~154.78~~

HMW13
Hunter Army Airfi
1-3551-0320
10/08/95
HD

WELL DEVELOPMENT DATA

PROJECT NAME HUNTER AAF PROJECT No. 12001-9-3411

DEVELOPED BY TAK DAN CHECKED BY _____ SHEET 1 OF 2

1. Well No.: HMW-14R Site Location: FIRE TRAINING AREA
2. Date of Installation: 1-7-00
3. Date of Development: 1-11-00
4. Static Water Level: Before Development 12.84 ft.; At Least 24 hrs. After 12.62 ft.
5. Organic Vapor: Before Development 0.3 ppm; After Development 0.0 ppm
6. Quantity of Water Loss During Drilling, If Used: 10 gal.
7. Quantity of Standing Water in Well and Annulus (WC = 7.53) Before Development: 9.2 gal.
8. Depth From Top of Well Casing to Bottom of Well: 20.37 ft. (from Well Installation Diagram)
9. Well Diameter: 2" in.

20.37
12.84
7.53

10. Screen Length: 9.74 ft.
11. Minimum Quantity of Water to be Removed: (9.2 x 10) x 5 = 96 gal.
12. Depth to Top of Sediment: Before Development 20.32 ft.; After Development NA ft.
13. Physical Character of Water (Before/After Development): BEFORE VERY TURBID - MUCH FINE SAND
14. Type and Size of Well Development Equipment: AIR DISPLACEMENT PUMP
15. Description of Surge Technique, If Used: LIFT PUMP UP/DOWN RAPIDLY
16. Height of Well Casing Above Ground Surface: 2.0 ft. (from Well Installation Diagram)
17. Quantity of Water Removed: 140 gal. Time for Removal: 7.5 hrs hr. / min.
18. 1-Liter Water Sample Collected: 1 (Time) Photographed? (Y) / N
19. Final Turbidity in Nephelometric Units: 15.8 NTUs
20. Final Imhoff Cone Measurements < 0.75 mL/L, If Applicable: NA

HF — Rev. 4/94

FIGURE B-3

WELL DEVELOPMENT DATA (continued)

PROJECT NAME HUNTER AAF PROJECT NO. 12001-9-3911

DEVELOPED BY TMK DAN CHECKED BY _____ SHEET 2 OF ____

WELL NO. HMW-14R SITE LOCATION FORMER FIRE TRAINING AREA

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
11:00							SURGING PUMP UP/DOWN PUMP DIRECTLY INTO DRUM
9:45	START						
10:50	65/65	27/27	—	—	—	—	SURGING, WATER TURBID BIT VERY WHITE SAND STOP. HOOK UP MACHINE
11:40	0/65	0/27	5.92	21.1	256	>1000	RESUME PUMPING
12:00	20/85	6/36	5.78	21.2	193	>1000	
12:18	18/103	5/41	5.72	21.2	182	402	SURGED PUMP UP/DOWN
12:35	17/120	6/47	5.81	21.1	164	460	
12:50	15/135	5/52	5.65	21.3	152	440	SURGED
13:05	15/150	6/58	5.65	21.3	170	—	
13:35	30/180 STOP FOR LUNCH	10/68	5.61	21.2	160	—	STOP FOR LUNCH
14:10	0/180	0/68	—	—	—	—	RESUME
14:20	10/190	4/72	5.62	21.2	164	381	SURGE
14:45	25/215	8/80	5.87 5 (TMK)	21.1	155	673	
15:00	15/230	6/86	5.57	21.1	176	241	~~PUMPING AIR~~ (TMK)
15:15	15/245	3/89	5.56	21.1	165	178	PUMPING AIR
15:30	15/260	3/92	5.55	21.07	163	—	

FIGURE B-3

WELL DEVELOPMENT DATA (continued)

PROJECT NAME HUNTER AAF PROJECT NO. 20001-9-3411

DEVELOPED BY TMK / D. HICK CHECKED BY _____ SHEET 3 OF ____

WELL NO. HMW-14R SITE LOCATION FORMER FIRE TRAINING AREA

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
1-11-00 15:45	15/275	3/95	5.54	21.07	162	96.8	
16:00	15/290	2/97	5.54	21.06	162	73.4	23
16:15	15/305	3/100	5.53	21.02	161	58.3	15
16:30	15/320	3/103	5.53	21.00	162	[illegible]	9
16:45	15/335	3/106	5.51	20.99	160	41.3	9
17:05	20/355	5/111	5.51	20.93	160	31.6	10
17:17	12/367	—	5.51	20.90	159	28.5	
17:30	13/380	—	5.51	20.85	160	24.6	
17:45	15/395	—/125	5.51	20.81	159	21.3	
18:00	15/410	3/128	5.49	20.77	159	19.4	
18:20	20/430	8/136	5.51	20.73	158	15.7	
18:30	10/450	4/140	5.49	20.71	158	15.8	
	STOP						

WELL DEVELOPMENT DATA

PROJECT NAME Hunter Army Airfield CSR PROJECT No. 12001-9-3411

DEVELOPED BY JH and MJ CHECKED BY _____ SHEET 1 OF 2

1. Well No.: HMW-15 Site Location: FTA - Hunter Army Airfield
2. Date of Installation: 7-28-99
3. Date of Development: 8-26-99
4. Static Water Level: Before Development 7.09 ft.; At Least 24 hrs. After _____ ft.
5. Organic Vapor: Before Development 0.0 ppm; After Development 0.0 ppm
6. Quantity of Water Loss During Drilling, If Used: 2.0 gal.
7. Quantity of Standing Water in Well and Annulus Before Development: 8.52 gal.
8. Depth From Top of Well Casing to Bottom of Well: 16.20? ft. (from Well Installation Diagram)
9. Well Diameter: 2 in.
10. Screen Length: 10 ft.
11. Minimum Quantity of Water to be Removed: 52 gal.
12. Depth to Top of Sediment: Before Development 16.15 ft.; After Development 16.16 ft.
13. Physical Character of Water (Before/After Development): Extremely turbid; dark gray to black in color; petroleum odor and/or sulfur odor
14. Type and Size of Well Development Equipment: QED 65" development pump (PVC).
15. Description of Surge Technique, If Used: Hand surged with pump that contained washers on top + bottom. Surged 10 times then pumped 40 to 50 mins.; surged 10 times, pumped 40-50 mins, etc.
16. Height of Well Casing Above Ground Surface: 1.5 ft. (from Well Installation Diagram)
17. Quantity of Water Removed: 162 gal. Time for Removal: 7.0 hr. / min.
18. 1-Liter Water Sample Collected: 8-31-99 / 1741 (Time) Photographed? (Y) / N
19. Final Turbidity in Nephelometric Units: 452 NTUs
20. Final Imhoff Cone Measurements < 0.75 mL/L, If Applicable: NA

~~WELL DEVELOPMENT DATA~~
(Continued)

PROJECT NAME Hunter Army Airfield CSR PROJECT No. 12001-9-3411

DEVELOPED BY QH / MJ CHECKED BY _____ SHEET 2 OF 2

Well No.: 1+MW-15 Site Location: FTA

Date/ Time	Hrs. Dev./ Cum. Hrs. Dev.	Gals. Purged/ Cum. Gals. Purged	pH	Temp. °C	Cond. mS/cm	NTUs	Remarks
8-26-99 1517	Ø	Ø	7.01	23.9	0.025	over cal	very turbid; black to dark gray
1650	1hr, 33min ~~20~~	~ 20/20	6.40	23.4	0.024	over cal	same as above/ slight petroleum odor
1738	48 min/ 2hrs, 21 mins	~ 30/50	6.98	22.9	0.024	over cal	
1800	22 mins/ 2hrs, 43 mins	~ ~~60~~ 10/60	7.11	23.2	0.026	558	
8-31-99 0930	Ø/2hrs 43 min	3 ~~Ø~~ mg/63	6.60	23.1	0.103	over cal	very turbid; black to dark gray; sulfur odor
1040	1hr 10mins/ 3hrs 53mins	35/98	6.25	22.6	0.076	439	
1118	38 mins/ 4hrs 31mins	15/113	5.72	23.4	0.075	482	
1208	50 mins/ 5hrs 21mins	12.5/125.5	5.74	24.2	0.076	248	light gray - brown sulfur odor
1245	37 mins/ 5hrs. 58 mins	7.5/133	5.91	23.9	0.064	576	very turbid; black to dark gray; sulfur odor
1508	Ø/ 5hrs 58mins	Ø/133	5.90	23.7	0.065	558	
1635	20 mins/ 6hrs 18 mins	5/138	5.91	22.8	0.063	612	
1711	36 mins/ 6hrs 54mins	9/147	5.91	22.7	0.063	604	
1741	30 mins/ 7hrs, 24mins	15/162	5.87	22.4	0.063	452	

WELL DEVELOPMENT DATA

PROJECT NAME Hunter Army Airfield CSR PROJECT No. 12001-9-3411

DEVELOPED BY JAH / KB/MJ CHECKED BY _____ SHEET 1 OF 2

1. Well No.: HMW-16 Site Location: ETA - Hunter Army Airfield
2. Date of Installation: 7-29-99
3. Date of Development: 9-2-99
4. Static Water Level: Before Development 11.72 ft.; At Least 24 hrs. After _____ ft.
5. Organic Vapor: Before Development 0.2 ppm; After Development 0.0 ppm
   Borehole PID 4.0 ppm Borehole PID 3.4 ppm
6. Quantity of Water Loss During Drilling, If Used: 2.0 gal.
7. Quantity of Standing Water in Well and Annulus Before Development: 4.08 gal.
8. Depth From Top of Well Casing to Bottom of Well: 16.06 ft. (from Well Installation Diagram)
9. Well Diameter: 2 in.
10. Screen Length: 10 ft.
11. Minimum Quantity of Water to be Removed: 30.4 gal.
12. Depth to Top of Sediment: Before Development 16.06 ft.; After Development _____ ft.
13. Physical Character of Water (Before/After Development): Black, very turbid, strong petroleum odor.
14. Type and Size of Well Development Equipment: QED 5" Development pump (PVC)
15. Description of Surge Technique, If Used: Hand surged with pump equipped with washers at top and bottom. Surged 10 times initially. Pumped at optimum rate of 0.2 Liters per minute.
16. Height of Well Casing Above Ground Surface: 1.77 ft. (from Well Installation Diagram)
17. Quantity of Water Removed: _____ gal. Time for Removal: _____ hr. / min.
18. 1-Liter Water Sample Collected: _____ (Time) Photographed? Y / N
19. Final Turbidity in Nephelometric Units: _____ NTUs
20. Final Imhoff Cone Measurements < 0.75 mL/L, If Applicable: NA

WELL DEVELOPMENT DATA
(Continued)

PROJECT NAME Hunter Army Airfield CSR PROJECT No. 12001.9-3411

DEVELOPED BY JAH/KB/MJ CHECKED BY _____ SHEET 2 OF 2

Well No.: HMW-16 Site Location: FTA

Date/ Time	Hrs. Dev./ Cum. Hrs. Dev.	Gals. Purged/ Cum. Gals. Purged	pH	°C Temp.	mS/cm Cond.	NTUs	Remarks
9-2-99/ 0920	1 / 1	3 / 3	6.04	22	6.097	OVER CAL	Gray-black, petroleum odor
9-2-99/ 1033	1hr 13min / 2hr 13min	6 / 9	5.80	22.1	6.096	599	↓
9-2-99/ 1102	29 min / 2hr 42m	4 / 13	5.92	22.2	0.698	520	↓
9-2-99/ 1152	50min / 3hr 32min	5 / 18	5.98	22.6	0.093	395	Milky brown; strong petroleum odor
9-2-99/ 1249	57min / 4hr 29min	4 / 22	6.05	24.5	0.101	130	↓
9-2-99/ 1327	38min / 5hr 7min	2 / 24	6.18	22.8	0.097	75	Light milky color; strong petroleum odor
9-2-99 1430	1hr 3mins / 6hr 10min	2 / 26	6.11	23.2	0.098	206	Milky Brown, petroleum odor
9-2-99 1600	ø / 6hr 10mins	ø / 26	5.89	23.4	0.097	168	milky brown; petroleum odor
9-2-99 1650	50mins / 7.0 hrs	6 / 32	5.72	23.4	0.099	104	↓
9-2-99 1720	30 mins / 7.0hrs 30 mins	5 / 37	5.92	23.2	0.099	67.6	↓
9-3-99 0748	ø / 7.0 hrs 30m	ø / 37	5.40	22.2 ~~0.094~~ gal	0.094	160	↓
0830	42 mins / 8 hrs 12 mins	~3.5 / 40.5	5.73	21.8 ~~or gal~~	0.095	278	↓
0900	30 mins / 8 hrs 42 mins	~3.5 / 44	5.88	21.8	0.094	128	↓
0930	30 mins / 9 hrs 12 mins	~3.5 / 47.5	5.97	22.1	0.096	87	↓
1000	30 mins / 9 hrs 42 mins	~3.5 / 51	5.87	22.4	0.097	71	↓
1030	30 mins / 10 hrs 12 mins	~1.5 / 52.5	5.94	22.5	0.097	38	↓

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WELL DEVELOPMENT DATA
(Continued)

PROJECT NAME Hunter Army Airfield CSR PROJECT No. 12001-9-3411

DEVELOPED BY ~~JH~~/HLJ/KB CHECKED BY _____ SHEET ~~2~~ 3 OF ~~2~~ 3

Well No.: HMW-16 Site Location: FTA

Date/ Time	Hrs. Dev./ Cum. Hrs. Dev.	Gals. Purged/ Cum. Gals. Purged	pH	Temp.	Cond.	NTUs	Remarks
9-3-99 1115	45mins / 10hrs 57mins	0.5 / 53 ~~54~~	5.88	22.6 ~~0099~~	0.099	33	light milky clear; strong petroleum odor
1150	35mins / 11hrs 32mins	0.25 / 53.25	5.81	23.2	0.101	25	↓
1225	35mins / 12hr 7mins	0.25 / 53.5	5.85	24.6	0.104	33	↓
1307	42mins / 12hr 49mins	0.25 / 53.75	5.64	23.2	0.103	23.1	clear; strong petroleum odor
1340	33mins / 13hrs 22mins	0.25 / 54.0	5.77	25.0	0.106	19.1	↓

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WELL DEVELOPMENT DATA

PROJECT NAME Hunter Army Airfield CSR PROJECT No. 12001-9-3411

DEVELOPED BY QH / MJ CHECKED BY _____ SHEET 1 OF 2

1. Well No.: HAAW-17 Site Location: FTA - Hunter Army Airfield
2. Date of Installation: 7-28-99
3. Date of Development: 9-1-99
4. Static Water Level: Before Development 8.10 ft.; At Least 24 hrs. After _____ ft.
5. Organic Vapor: Before Development 0.0 ppm; After Development 0.0 ppm
6. Quantity of Water Loss During Drilling, If Used: 2.0 gal.
7. Quantity of Standing Water in Well and Annulus Before Development: 7.18 gal.
8. Depth From Top of Well Casing to Bottom of Well: 15.91 ft. (from Well Installation Diagram)
9. Well Diameter: 2 in.
10. Screen Length: 10 ft.
11. Minimum Quantity of Water to be Removed: 45.9 gal.
12. Depth to Top of Sediment: Before Development 15.74 ft.; After Development 16.17 ft.
13. Physical Character of Water (Before/After Development): Very turbid; dark brown in color; no odors
14. Type and Size of Well Development Equipment: QED 65" development pump (PVC).
15. Description of Surge Technique, If Used: Hand surged with pump equipped with washers at top and bottom. Surged 10 times initially; pumped at a rate of approximately 2 gallons/min for 1 hr; surged again, pump; surge again and pump
16. Height of Well Casing Above Ground Surface: 1.91 ft. (from Well Installation Diagram)
17. Quantity of Water Removed: 382 gal. Time for Removal: 6.0 hr. / min.
18. 1-Liter Water Sample Collected: 9-1-99 / 1900 (Time) Photographed? (Y) / N
19. Final Turbidity in Nephelometric Units: 23.1 NTUs
20. Final Imhoff Cone Measurements < 0.75 mL/L, If Applicable: NA

WELL DEVELOPMENT DATA
(Continued)

PROJECT NAME Hunter Army Airfield CSR PROJECT No. 12001-9-3411

DEVELOPED BY SM/MJ CHECKED BY _____ SHEET 2 OF 2

Well No.: HMW-17 Site Location: FTA

Date/ Time	Hrs. Dev./ Cum. Hrs. Dev.	Gals. Purged/ Cum. Gals. Purged	pH	Temp.	Cond.	NTUs	Remarks
9-1-99/ 1045	Ø / Ø	Ø / Ø	6.18	27.9	0.083	1200	turbid, dark brown no odor
9-1-99/ 1145	1.0 hr / 1.0hr	25 / 25	5.90	27.1	0.074	991	↓
1245	1.0 hr / 2.0hrs	55 / 80	5.86	26.6	0.079	508	light brown
1320	35 mins / 2 hrs, 35 mins	66 / 146	5.83	26.7	0.079	250	↓
1545	Ø / 2 hrs, 35 mins	Ø / 146	5.53	28.1	0.083	102	tan
1620	35 mins / 3 hrs, 10 mins	55 / 201	5.97	26.8	0.081	60	Light yellowish color
1652	32 mins / 3 hrs 42 mins	45 / 246	5.82	26.6	0.081	28.1	very light yellowish color.
1725	33 mins / 4 hrs, 15 mins	37 / 283	5.81	27.0	0.082	38	Light milky color
1800	45 mins / 5.0 hrs	27 / 310	5.52	26.3	0.082	42	Light milky color
1830	30 mins / 5 hrs, 30 mins	36 / 346	5.82	26.6	0.082	26.6	almost clear
1900	30 mins / 6.0 hrs	36 / 382	5.94	25.9	0.080	23.1	↓

WELL DEVELOPMENT DATA

PROJECT NAME HUNTERS AAF PROJECT No. 12401-9-3417

DEVELOPED BY Victor Clark CHECKED BY J. Hartness SHEET 1 OF 2

1. Well No.: HMW-13 Site Location: FORM FIRE TRAINING AREA
2. Date of Installation: 1-8-00
3. Date of Development: 1-14-00 through 1-15-00
4. Static Water Level: Before Development 8.66 ft.; At Least 24 hrs. After 8.46 ft.
5. Organic Vapor: Before Development NA ppm; After Development 1.8 ppm
6. Quantity of Water Loss During Drilling, If Used: 20 gal.
7. Quantity of Standing Water in Well and Annulus Before Development: 7.7 ~~x 5 =~~ TOTAL gal.
8. Depth From Top of Well Casing to Bottom of Well: 14.98 ft. (from Well Installation Diagram)
9. Well Diameter: 2" in.
10. Screen Length: 9.74 ft.
11. Minimum Quantity of Water to be Removed: 138 gal.
12. Depth to Top of Sediment: Before Development 14.88 ft.; After Development 14.98 ft.
13. Physical Character of Water (Before/After Development): Turbid
14. Type and Size of Well Development Equipment: QED Purge Pump
15. Description of Surge Technique, If Used: Pump & surge
16. Height of Well Casing Above Ground Surface: 2.5 ft. (from Well Installation Diagram)
17. Quantity of Water Removed: 139 gal. Time for Removal: 60 hr. / min.
18. 1-Liter Water Sample Collected: 1-15-00 at 16:17 (Time) Photographed? (Y) / N
19. Final Turbidity in Nephelometric Units: 0.58 NTUs
20. Final Imhoff Cone Measurements < 0.75 mL/L, If Applicable: NA

FIGURE B-3

WELL DEVELOPMENT DATA (continued)

PROJECT NAME Hunter AAF PROJECT NO. 12001-9-3411

DEVELOPED BY VRC + MLJ CHECKED BY J. Hardness SHEET 1 OF 3

WELL NO. HMW-18 SITE LOCATION Former Air Traffic Area

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
1-14-00	66	27	—	—	—	—	Silty water
16:40	4/70	2.5/29.5	4.86	~~17.6~~ 17.52	0.61	48.8	
16:55	15/85	2.5/32	4.84	17.75	0.58	456	
~~17:05~~ 1710	15/100	2.5/35	4.82	17.74	0.55	180.1	
17.25	15/115	2.5/37.5	4.81	17.69	0.54	91.8	
1740	15/130	2.5/40	4.85	17.65	0.55	44.4	
	Stopped	1-14-00					

FIGURE B-3

WELL DEVELOPMENT DATA (continued)

PROJECT NAME Hunter AAF PROJECT NO. 12001-9-3411

DEVELOPED BY VRC & MW H CHECKED BY J. Hartness SHEET 2 OF 3

WELL NO. HMW-18 SITE LOCATION Former Fire Training Area

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
1-15-00 0818	15/145	1/45	4.70	18.07	0.53	56.1	Surge
0833	15/150	1/46	4.69	18.25	0.54	59.4	
0848	15/165	3/49	4.63	18.18	0.57	232	Surge
0903	15/180	5/54	4.68	17.16	0.50	523	
0918	15/195	5/59	4.67	17.26	0.51	12.3	Surge
0933	15/210	3/62	4.63	17.48	0.54	32.8	
0949	15/225	3/65	4.64	17.63	0.55	8.4	
1004	15/240	3/68	4.61	17.76	0.56	95.4	Surge
1014	15/255	3/71	4.60	17.74	0.57	76.0	
1034	15/270	3/74	4.61	17.74	0.59	124	Surge
1049	15/285 (rc)	3/77	4.58	17.85	0.59	216	
1104	15/300	3/80	4.58	17.80	0.58	76	
1119	15/315	3/83	4.57	17.79	0.60	79.5	
1134	15/330	5/88	4.58	17.62	0.60	36.6	
1149	15/345	3/91	4.59	17.86	0.59	17.3	

FIGURE B-3

WELL DEVELOPMENT DATA (continued)

PROJECT NAME Hunter AAF PROJECT NO. 12001-9-3411

DEVELOPED BY VRC & MWH CHECKED BY J. Harness SHEET 3 OF 3

WELL NO. HMW-18 SITE LOCATION Ex-Mec Fire training Area

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
1-15-00 12:04	15/400	5/96	4.59	18.38	0.58	72	
12:19	15/415	5/101	4.60	1822	0.57	51	
12:34	15/430	5/106	4.61	1842	0.59	49	
12~~49~~ 49	15/445	5/111	4.61	1843	0.59	43	
1305	15/460	5/116	4.62	1851	0.59	32	
1320	15/475	5/121	4.62	1854	0.61	21.4	
1335	15/490	~~5~~ 3/124	4.56	1824	0.61	152	
1350	15/505	3/127	4.59	1810	0.60	31.4	
1405	15/520	3/130	4.60	1819	0.59	20.7	
1420	15/535	3/133	4.60	1819	6.58	15.2	
1435	15/550	3/136	4.60	1833	0.56	13.3	
1450	15/6	3/139	4.59	17.97	0.58	3.57	
		END 14:55 1-15-00					

WELL DEVELOPMENT DATA

PROJECT NAME HUNTER AAF PROJECT No. 12001-9-3411

DEVELOPED BY MH, VS CHECKED BY _____ SHEET 1 OF 2

1. Well No.: HMW-19 Site Location: FORMER FIRE TRAINING AREA
2. Date of Installation: 1-8-00
3. Date of Development: 1-13-00 →
4. Static Water Level: Before Development 8.94 (TOC) ft.; At Least 24 hrs. After 8.90 ft.
5. Organic Vapor: Before Development 1.4 ppm; After Development NM ppm
6. Quantity of Water Loss During Drilling, If Used: 20 gal.
7. Quantity of Standing Water in Well and Annulus Before Development: ≈ 9.5 gal.
8. Depth From Top of Well Casing to Bottom of Well: 16.83 ft. (from Well Installation Diagram)
9. Well Diameter: 2" in.
10. Screen Length: 9.80 ft.

16.83
8.94
7.89 W. Column

11. Minimum Quantity of Water to be Removed: 47 + 100 = 147 gal.
12. Depth to Top of Sediment: Before Development 16.77 ft.; After Development NA ft.
13. Physical Character of Water (Before/After Development): V. Dark brown gray
14. Type and Size of Well Development Equipment: ~~Dev~~ Air Displacement pump
15. Description of Surge Technique, If Used: SURGE PUMP UP & DOWN
16. Height of Well Casing Above Ground Surface: 2.3 ft. (from Well Installation Diagram)
17. Quantity of Water Removed: 41 gal. Time for Removal: 7.5 hrs hr. / min.
18. 1-Liter Water Sample Collected: _____ (Time) Photographed? (Y) / N
19. Final Turbidity in Nephelometric Units: 4.4 NTUs
20. Final Imhoff Cone Measurements < 0.75 mL/L, If Applicable: NA

HF — Rev. 4/94

FIGURE B-3

WELL DEVELOPMENT DATA (continued)

PROJECT NAME Hunter AFB PROJECT NO. 12001-9-3411

DEVELOPED BY VEC/MWH/THK CHECKED BY _____ SHEET ____ OF ____

WELL NO. MW-19 SITE LOCATION Former Fire Training Area

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
1-13-00 ~~14:45~~		20	-	-	-	-	SETUP PERISTATIC PUMP C1120 - PUMP INTAKE 12.0' -
14:45	START	START 20	←	←	←	←	SETUP DEV PUMP & PURGE SILVER - REMOVED PERISTATIC PUMP
15:30	45/45	10/30	5.59	19.49	243	7000	SURGE SET @ Beta CLOSE
15:45	15/60	5/35	6.02	19.76	~~233~~ 233	>1000	
16:00	15/75	5/40	5.48	19.28	241	158	SURGE ~~AFTER~~ AFTER READING
16:15	15/80	2/42	5.49	19.26	240	159.0	
16:30	15/95	2/44	5.46	19.33	237	20.4	
16:45	15/110	2/46	5.57	19.17	247	463	
17:00	15/125	2.5/48.5	5.54	19.14	240	130	
17:15	15/140	2.5/51.0	5.52	19.05	233	304	
17:30	15/155	3/54	5.49	19.03	231	88	
17:45	15/210	3/57	5.50	19.04	~~233~~ 225	73.4	
		3/60					

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FIGURE B-3

WELL DEVELOPMENT DATA (continued)

PROJECT NAME Hunter AAF PROJECT NO. 12001-9-344

DEVELOPED BY VCC & MLJ CHECKED BY _____ SHEET ____ OF ____

WELL NO. HMW-19 SITE LOCATION Eastern Fire Training Area

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP. °C	COND. µS/cm	NTUs	REMARKS
~~1-14-00~~ ~~1:30~~		5	-	-	-	-	Set up pump Get flow rate
8:00	start	5	-	-	-	-	Begin readings
8:15	30/30	5+1=6	5.66	16.53	227	508	Slowing clearing up Surge well after taking readings
8:30	15/45	2.5/8.5	5.60	16.52	198	151	Surge after reading
8:45	15 30 mJ/60	2.5/11	mJ 5.58	16.53	195	373	Surged after reading
9:00	15 mJ 45/75	2.5/13.5	5.58	16.54	193	65.3	Surged after reading
09:15	15/90	2.5/16	5.56	16.68	192	30.2	
09:30	15/105	2.5/18.5	5.55	16.70	195	87.2	(Surged AR)
09:45	15/120	2.5/21	5.56	17.07	196	37.2	
10:00	15/135	2.5/23.5	5.55	17.48	204	59.8	Surged
10:15	15/150	2.5/26	5.55	17.52	207	233	
10:30	15/165	2.5/28.5	5.53	17.41	207	70.0	(Surge)
10:45	15/180	2.5/31	5.54	17.58	196	177.5	
11:00	15/195	2.5/33.5	5.54	17.96	197	55.9	
11:15	15/210	2.5/36	5.54	18.15	196	19.3	

FIGURE B-3

WELL DEVELOPMENT DATA (continued)

PROJECT NAME Hunter AAF PROJECT NO. 12001-9-3411

DEVELOPED BY VRC & MLJ CHECKED BY _____ SHEET ____ OF ____

WELL NO. HMW-9 SITE LOCATION Former Fire Training Area

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
1130	15/225	2.5/38.5	5.52	18.18	240	7.50	Called Dave
1145	15/240	2.5/41	5.52	17.94	240	4.40	

WELL DEVELOPMENT DATA

PROJECT NAME HUNTER AAF PROJECT No. 12001-9-3411

DEVELOPED BY TMK/DAH/MWH CHECKED BY _____ SHEET 1 OF 2

1. Well No.: HMW-20 Site Location: FORMER FIRE TRAINING AREA
2. Date of Installation: 1-9-00
3. Date of Development: 1-12-00
4. Static Water Level: Before Development 6.91 ft.; At Least 24 hrs. After 6.50 ft.
5. Organic Vapor: Before Development 1.6 ppm; After Development _____ ppm
6. Quantity of Water Loss During Drilling, If Used: 15 gal for charging gal.
7. Quantity of Standing Water in Well and Annulus Before Development: W.C. 8.06' _____ gal.
8. Depth From Top of Well Casing to Bottom of Well: 14.97 ft. (from Well Installation Diagram)
9. Well Diameter: 2" in.
10. Screen Length: 9.69 ft.

14.97
- 6.91
8.06 WATER COLUMN

11. Minimum Quantity of Water to be Removed: 115 gal.
12. Depth to Top of Sediment: Before Development 14.91 ft.; After Development NA ft.
13. Physical Character of Water (Before/After Development): Very turbid dark gray brown
14. Type and Size of Well Development Equipment: AIR DISPLACEMENT PUMP
15. Description of Surge Technique, If Used: SURGE PUMP UP/DOWN
16. Height of Well Casing Above Ground Surface: 2.5 ft. (from Well Installation Diagram)
17. Quantity of Water Removed: 222 gal. Time for Removal: 7.2 hrs hr. / min.
18. 1-Liter Water Sample Collected: 12:00 (Time) Photographed? (Y) / N
19. Final Turbidity in Nephelometric Units: 45.5 NTUs
20. Final Imhoff Cone Measurements < 0.75 mL/L, If Applicable: _____

FIGURE B-3

WELL DEVELOPMENT DATA (continued)

PROJECT NAME HUNTER AAF PROJECT NO. 12-01-9-3411

DEVELOPED BY TMK MWH CHECKED BY _____ SHEET 2 OF _____

WELL NO. HMW-20 SITE LOCATION FORMER FILE TRAINING AREA

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
11.00	START	—	—	—	—	—	SURGING PUMP UP/DOWN SED. 120ml/1000l
11:10	10/10	1/1	6.31	20.14	80	>1000	SURGE
12:15	65/75	12/13	6.03	20.35	69	>1000	SURGE
12.30	15/90	3/16	6.02	20.31	71	>1000	SURGE
12:45	15/105	3/19	6.04	20.27	77	620	SURGE FLOW ADJ TO 1000ml/min
13:05	20/125	6/25	6.19	20.37	75	496	SURGE FLOW 1400ml/min
13:25	20/145	9/34	6.05	20.36	75	491	
13:45	20/165	9/43	(TMK) 6.5.99	20:38	77	499	SURGE
14:05	20/185	9/52	5.96	20.43	77	—	
14:35	30/215	18/70	6.02	20.35	79	484	
15:00	25/240	6/76	5.94	20.34	80	493	SURGE
15:15	15/255	3/79	5.92	20.35	83	500	SURGE
15:30	15/270	3/82	5.94	20.36	73	365	SURGE
15:45	15/285	4/86	5.92	20.31	78	490	SURGE
16:00	15/300	4/90	5.91	20.28	79	420	

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FIGURE B-3

WELL DEVELOPMENT DATA (continued)

PROJECT NAME HUNTER AAF PROJECT NO. 20001-9-3411

DEVELOPED BY TMK/MWH CHECKED BY _____ SHEET 3 OF ____

WELL NO. HMW-20 SITE LOCATION FORMER FIRE TRAINING ARE

DATE/ TIME 1-12-00	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
16:15	15/315	5/95	5.91	20.26	80	247	
16:30	15/330	7/102	5.90	20.23	81	204	
16:45	15/345	6/108	5.9	20.21	82	198	
17:00	15/360	3/111	5.89	20.19	83	173	PUMP HOSE ON BOTTOM, SURGING FLOW
17:20	20/380	4/115	5.89	20.15	84	166	
17.35	15/415	6/121	5.89	20.14	85	154	
17.45	10/425	5/126	5.89	20.11	85	143	
18.00	15/440	6/132	5.89	20.09	86	142	
—	—	STOP FOR NIGHT		—	—	—	
0800	15/455	12/150	5.76	20.02	88	105.5	
0815	15/470	6/156	5.75	20.04	NOT —	78.3	NOT WORKING
0845	15/485	6/162	5.76	20.04	81	67.1	USED BECK 40 BETA SER# 9407-3
0900	15/500	6/168	5.75	20.06	86	69.7	
0915	15/515	6/174	5.74	20.6	87	73.0	
0930	15/530	6/180	5.74	20.13	87	74.9	

HF – Rev. 7/95

FIGURE B-3

WELL DEVELOPMENT DATA (continued)

PROJECT NAME HUNTER AAF PROJECT NO. 12001-9-3411

DEVELOPED BY VRC/MWH CHECKED BY _____ SHEET ____ OF ____

WELL NO. HMW-20 SITE LOCATION FORMER FIRE TRAINING AREA.

DATE/ TIME	MINUTE DEV./ CUM. MIN. DEV.	GALS. PURGED/ CUM. GALS. PURGED	pH	TEMP.	COND.	NTUs	REMARKS
0945	15/545	~~4~~ 85	5.74	20.13	87	74.9	
1000	15/600	4/189	5.74	20.19	87 ~~86~~	89.5 ~~75.7~~	"
1015	15/615	4/193	5.74	20.21	88	95.2	
1030	15/630	4/197	5.72	20.10	86	56.2	
1045	15/645	4/201	5.72	20.14	95	55.5	
1100	15/660	4/205	5.72	20.17	1.03	52.0	
1115	15/675	4/209	5.71	20.23	1.10	47.0	
1130	15/700	4/214	5.71	20.25	1.13	46.4	
1145	15/715	4/218	5.71	20.28	1.15	46.0	
1200	15/730	4/222	5.71	20.28	1.17	45.5	
		STOP PHOTOGRAPH	(WATER				

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ATTACHMENT 5.3
WELL DEVELOPMENT DATA

PROJECT NAME Hunter AAF PROJECT No. 12001-9-3411

DEVELOPED BY John Martin CHECKED BY _____ SHEET 1 OF 2

1. Well No.: HMW-21 Site Location: FTA, SB-43
2. Date of Installation: 11-1-01
3. Date of Development: 11-2-01
4. Static Water Level: Before Development 10.43 ft.; At Least 24 hrs. After 10.54 ft.
5. Organic Vapor: Before Development 0.0 ppm; After Development 0.0 ppm
6. Quantity of Water Loss During Drilling, If Used: 0.0 gal.
7. Quantity of Standing Water in Well and Annulus Before Development: 8.52 gal.
8. Depth From Top of Well Casing to Bottom of Well: 14.97 ft. (~~from Well Installation Diagram~~) MEASURED
9. Well Diameter: 2 in.
10. Screen Length: ~~10~~ 9.5 ft.
11. Minimum Quantity of Water to be Removed: 42.6 gal.
12. Depth to Top of Sediment: Before Development 0 ft.; After Development _____ ft.
13. Physical Character of Water (Before/After Development): LIGHT to MEDIUM GREY, CLOUDY WITH SUSPENDED FINES / SAME AFTER
14. Type and Size of Well Development Equipment: 2"-PVC SURGE BLOCK, WHALE SUBMERSIBLE 92L 12V D.C. PUMP ~ 1½" O.D.
15. Description of Surge Technique, If Used: SURGED THROUGH FULL H_2O COLUMN FOR ~10MIN. PUMP TO PURGE. REPEATED (AS WELL RECHARGED) 3 TIMES. ADDED 3gal of D.I. H_2O AND SURGED FOR ~20MIN. ALSO SURGED W/PUMP WHILE PURGING.
16. Height of Well Casing Above Ground Surface: 3 ft. (from Well Installation Diagram)
17. Quantity of Water Removed: 11-2-01 34gal / 11-5-01 57 gal. Time for Removal: 11-2-01 1½hr PURGE + 11-5-01 6 hr. / min
Chr 10 MIN TOTAL 12 hr 10 MIN TOTAL
18. 1-Liter Water Sample Collected: ~~1730~~ 11-5-01 2000 (Time) Photographed? (Y) N
19. Final Turbidity in Nephelometric Units: 11-2-01 >1000 11-5-01 100.2 NTUs
20. Final Imhoff Cone Measurements < 0.75 mL/L, If Applicable: NA

ATTACHMENT 5.3 (CONT'D)
WELL DEVELOPMENT DATA
(Continued)

PROJECT NAME HUNTER AAF PROJECT No. 12001-9-3411

DEVELOPED BY JOHN MARTIN & GREG ORZECHOWSKI CHECKED BY _____ SHEET 2 OF 2

Well No.: HAAW-21 Site Location: FTA, SB-43

Date/ Time	Hrs. Dev./ Cum. Hrs. Dev.	Gals. Purged/ Cum. Gals. Purged	pH	Temp.	Cond.	NTUs	Remarks
11-2-01 1120	1.5 min / 1.5 min	1.5 / 1.5	5.72	72.5	132.3	>1000	WELL GOING DRY IMMEDIATELY
11-2-01 1442	12 min / 13.5 min	15 / 16.5	5.71	73.2	137.0	>1000	ADDED 3 gal H2O AND SURGED FOR 20 min
11-2-01 1510	47 MIN / 205 min	1.5 / 18.0	5.76	72.6	106.4	>1000	NO IMPROVEMENT
11-2-01 1535 1625	15 MIN / 35.5 min	3.0 / 21.0	5.78	72.6	101.3	>1000	LOW FLOWRATE TO A TRICKLE
11-2-01 1600 1635	10 MIN / 45.5 min	2.0 / 23.0	5.78	72.1	975.0	>1000	
11-2-01 1620	20 MIN / 185.5 min	2.0 / 25.0	5.79	72.2	978.0	>1000	
11-2-01 1700	10 MIN / 1HR 55.5 min	5.0 / 30.0	5.76	72.0	977.2	>1000	
11-2-01 1730	15 min / 1.5 hr	4.5 / 34.5	5.75	71.9	977.0	>1000	
11-5-01 1830	30 min / 30 min	2.5 / 37.0	5.96	70.9 69.3	151.0	>1000	MAINTAINED FLOW AT A TRICKLE
11-5-01 1500	30 min / 1 hr	1 / 38.0	6.04	72.1 70.9	145	767	~3 to 3.5 gal/hr.
11-5-01 1530	30 min / 1.5 hr	2.0 / 40.0	6.06	71.3	146	404	
11-5-01 1600	30 min / 2.0 hr	1.5 / 41.5	6.09	71.2	143	407	
11-5-01 1700	1 hr / 3.0 hr	4.0 3.5 / 45.0	6.15	70.8	140	247	
11-5-01 1800	1 hr / 4.0 hr	3.0 / 48.0	6.13	70.9	136	146	
11-5-01 1900	1 hr / 5.0 hr	3.5 / 51.5	6.10	70.9	135	106.6	
11-5-01 2000	1 hr / 6 hr	5.5 / 57.0	6.14	70.8	130	100.2	DISCHARGE WEIGHTY AT END.

57.6

ATTACHMENT 5.3
WELL DEVELOPMENT DATA

PROJECT NAME Hunter AAF PROJECT No. 12001-9-3411

DEVELOPED BY J. Martin CHECKED BY _____ SHEET 1 OF 2

1. Well No.: HMW-22 Site Location: Hunter AAF, FTA
2. Date of Installation: 11-1-01
3. Date of Development: 11-2-01
4. Static Water Level: Before Development 16.79 btoc ft.; At Least 24 hrs. After 16.82 ft.
5. Organic Vapor: Before Development 0.0 ppm; After Development 0.0 ppm
6. Quantity of Water Loss During Drilling, If Used: N/A gal.
7. Quantity of Standing Water in Well and Annulus Before Development: 13.7 gal.
8. Depth From Top of Well Casing to Bottom of Well: 23.83 ft. (from Well Installation Diagram)
9. Well Diameter: 2 in.
10. Screen Length: 9.5 ft.
11. Minimum Quantity of Water to be Removed: 68.6 gal.
12. Depth to Top of Sediment: Before Development 0 ft.; After Development 0 ft.
13. Physical Character of Water (Before/After Development): Cloudy, Grey, Thick with Fines / Crystal Clear
14. Type and Size of Well Development Equipment: 2"-PVC Surge Block; Whale Submersible 921 12V D.C. Pump ~ 1½" O.D.
15. Description of Surge Technique, If Used: Surged 2"-PVC Surge Block Through Full Height of H_2O Column for ~ 10 min Before Surging, Then Repeated 2-More Times at About 30 min Intervals.
16. Height of Well Casing Above Ground Surface: 2.8 ft. (from Well Installation Diagram)
17. Quantity of Water Removed: 130 gal. Time for Removal: 1hr 25 min hr. / min
18. 1-Liter Water Sample Collected: 0915 (Time) Photographed? (Y) N
19. Final Turbidity in Nephelometric Units: 0.34 NTUs
20. Final Imhoff Cone Measurements < 0.75 mL/L, If Applicable: N/A

ATTACHMENT 5.3 (CONT'D)
WELL DEVELOPMENT DATA
(Continued)

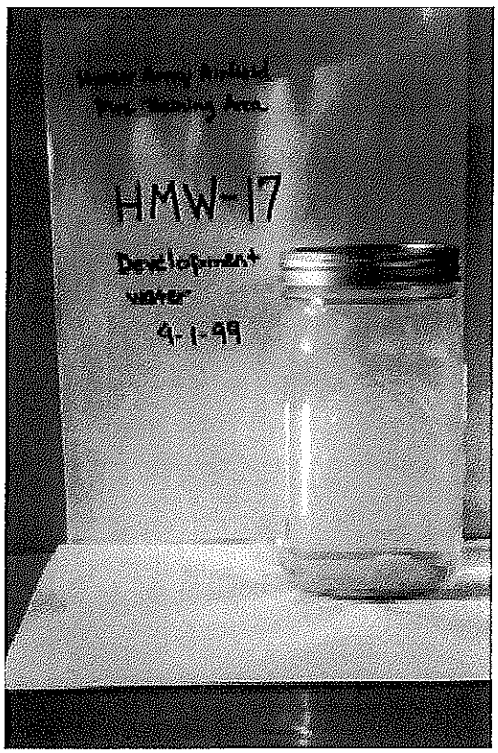
PROJECT NAME Hunter AAF PROJECT No. 12001-9-3411

DEVELOPED BY John Martin CHECKED BY _____ SHEET 2 OF 2

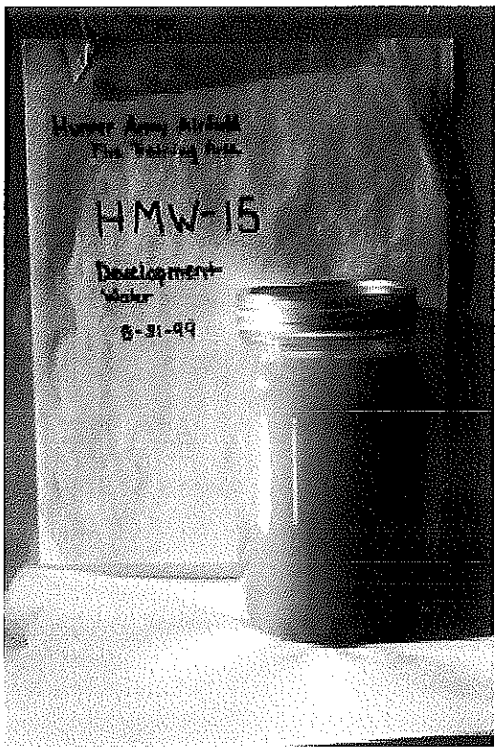
Well No.: HMW-22 Site Location: FTA

Date/ Time	Hrs. Dev./ Cum. Hrs. Dev.	Gals. Purged/ Cum. Gals. Purged	pH	Temp.	Cond.	NTUs	Remarks
11-2-01 0800	10 min / 10 min	25 / 25	5.38	76.3	159.7	821	
0825	15 min / 25 min	~~25~~ / 50	5.30	76.1	146.0	11.9	
0830	15 min / 40 min	~~41~~ 40 / 90	5.20	76.1	147.4	0.19	WOW!
0845	15 min / 55 min	15 ~~55~~ gal / 105	5.25 ~~5.38~~	76.1	145.9	0.00	
0900	15 min / 1hr 10 min	1.5 ~~10~~ gal / 120	5.25	76.4	148.5	1.22	Clamp slip. Flow rate increase.
0915	15 min / 1hr 25 min	10 ~~80~~ gal / 130	5.20	76.4	145.4	0.34	

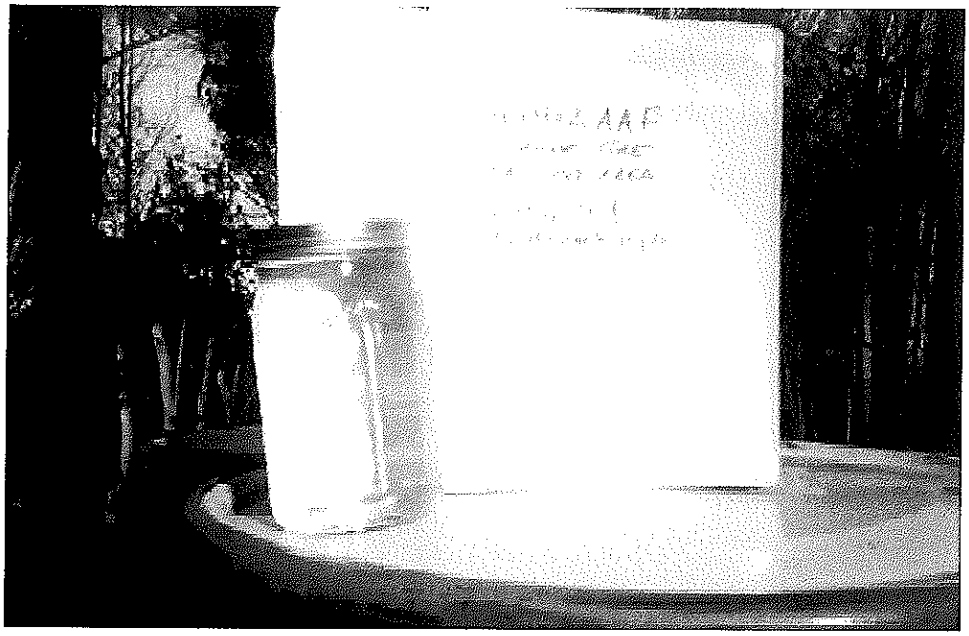
WELL DEVELOPMENT PHOTOGRAPHS


HMW-17
Development
water
9-1-99

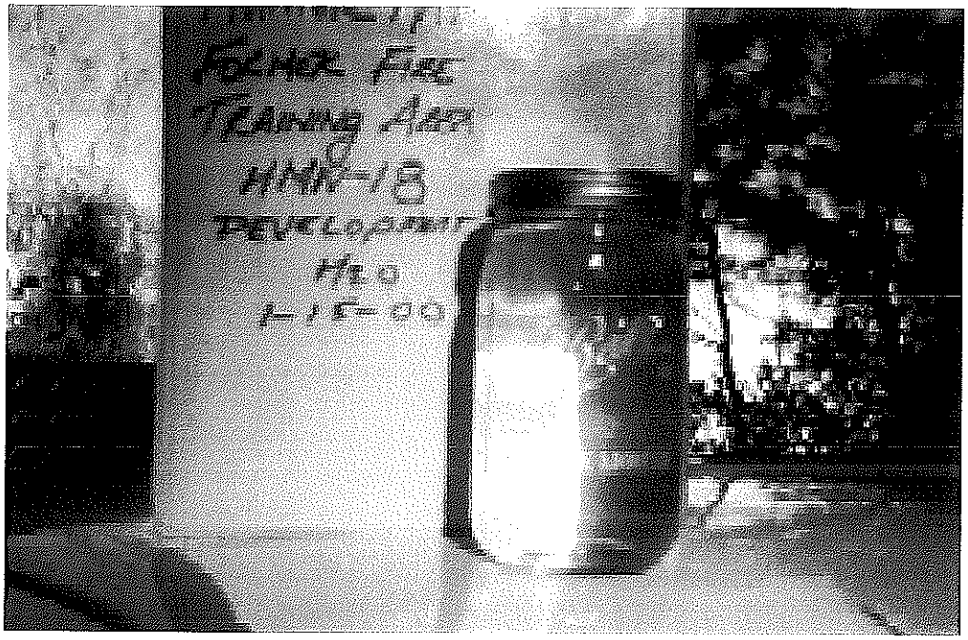
HMW - 17


HMW-15
Development
water
8-31-99

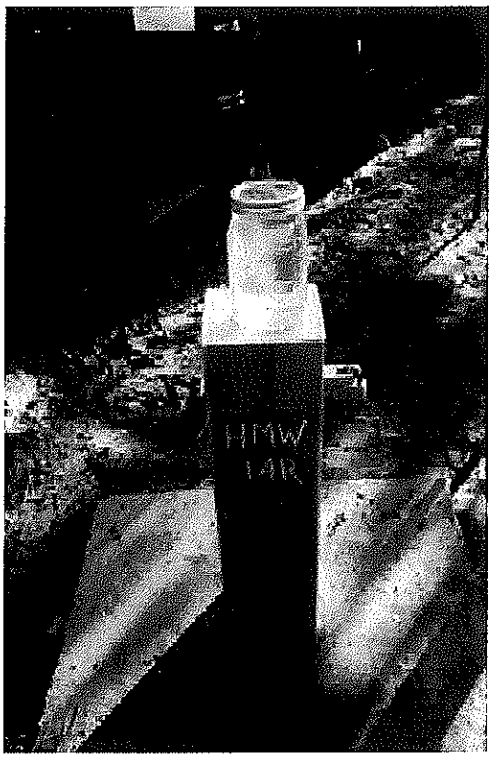
HMW - 15



HMW - 19

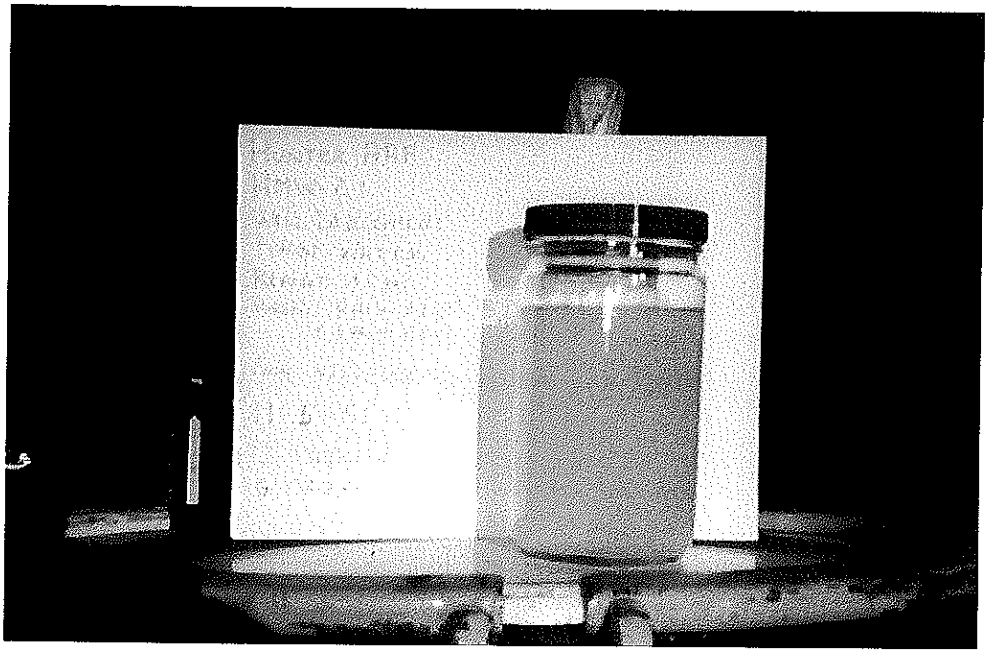


HMW - 18

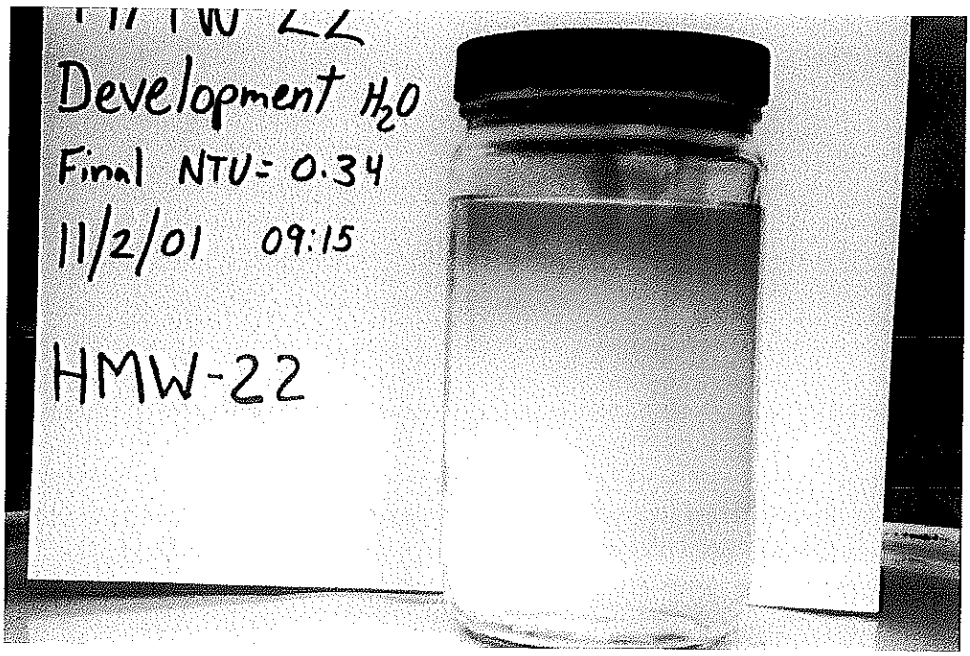


HMW - 14

HMW - 20



HMW - 21



HMW - 22

2001 Field Sampling Reports

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-3441
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: HMW-14R
QC LEVEL
MATRIX AQUEOUS
SAMPLING METHOD PERISTALTIC PUMP
DUP./REP. OF:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: END DEPTH:
DATE: 11-6-01 TIME: 1540
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

3 - 40ml VOA VIALS HCL VOCs

Volume Purged	0	1gal	2gal	3gal		
pH	5.28	5.40	5.40	5.39		
Temperature	71.9	70.3	69.7	69.8		
Specific Conductance	335	302	268	264		
Dissolved Oxygen						
Redox Potential						
Turbidity	>1000	20.8	5.11	4.07		

COLOR: PALE YELLOW
ODOR: ROTTEN EGGS
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION NE AMBIENT TEMP ~70°F
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: TOM OBSERVER: GAC

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE,SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-3461
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: HMW-21
QC LEVEL
MATRIX AQUEOUS
SAMPLING METHOD TEFLON BAILER
DUP./REP. OF:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: END DEPTH:
DATE: 11/6/01 TIME: 1035
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

3 - 40ml VOA VIALS HCL VOCs

Volume Purged	1 gal						
pH	5.71						
Temperature							
Specific Conductance	141						
Dissolved Oxygen							
Redox Potential							
Turbidity	116						

COLOR: CLOUDY PALE YELLOW/BROWN
ODOR: NONE
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN WIND DIRECTION CALM AMBIENT TEMP 45°
SHIPMENT VIA: FED-X HAND DELIVER X COURIER OTHER
SHIPPED TO:
SAMPLER: JDM OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D.: Hunter AAF
SITE: FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-3461
SUB-PROJECT #: —

SAMPLE INFORMATION

SAMPLE ID: HMW-22
QC LEVEL
MATRIX: GW/AQUEOUS
SAMPLING METHOD: PLASTIC/[redacted]
DUP./REP. OF:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: ____ END DEPTH: ____
DATE: 11-6-01 TIME: 1213
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
3 - 40 ml		HCl			VOCs

Volume Purged	0	1 gal	2 gal	3 gal	3.5 gal	
pH	4.89	5.20	5.18	5.17	5.18	
Temperature	76.3	76.2	76.3	76.3	76.3	
Specific Conductance	196	208	203	205	202	
Dissolved Oxygen						
Redox Potential						
Turbidity	27.6	12.0	2.37	1.25	1.10	

COLOR: CLEAR
ODOR: NONE
OTHER: NONE

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION NE AMBIENT TEMP 65°F
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: JDM OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-35
SUB-PROJECT #: ←

SAMPLE INFORMATION

SAMPLE ID: HMW-22 MS/MSD
QC LEVEL
MATRIX AQUEOUS
SAMPLING METHOD PURGE/BAILER
DUP./REP. OF:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES(X) NO( )
BEGINNING DEPTH: END DEPTH:
DATE: 11-6-01 TIME: 12:30
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

MS 3 - 40 ml HCL VOCs

MSD 3 - 40 ml HCL VOCs

Volume Purged	0 gal	1 gal	2 gal	3 gal	3.5	
pH	4.89	5.20	5.18	5.17	5.18	
Temperature	76.3	76.2	76.3	76.3	76.3	
Specific Conductance	196	208	203	205	202	
Dissolved Oxygen						
Redox Potential						
Turbidity	27.6	12.0	2.37	1.28	1.10	

COLOR:	
ODOR:	
OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION N/E AMBIENT TEMP 65
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: JOM OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-3411
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: SB-43 (0-2)

QC LEVEL
MATRIX: SOIL
SAMPLING METHOD: DRILL RIG, SS-SAMPLER
DUP./REP. OF:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: 0' END DEPTH: 2' bgs
DATE: 11-1-01 TIME: 10:25
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

3 - 5g EnCore Samplers — VOCs

1 - 125ml w/m Glass Jar w/ septa — Bulk VOCs

1 - 250ml w/m Glass Jar — SVOCs

1 - 250ml w/m Plastic Jar — Chromium

Volume Purged						
pH						
Temperature						
Specific Conductance						
Dissolved Oxygen						
Redox Potential						
Turbidity						

COLOR: DARK GREY/BROWN
ODOR: EARTHY
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION E AMBIENT TEMP 60°F
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: TOM OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D.: HUNTER AAF
SITE: FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-8-34
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: SB-43 (2-4)
QC LEVEL
MATRIX: SOIL
DUP./REP. OF:
SAMPLING METHOD: DRILL RIG, SS-SAMPLER
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: 2' END DEPTH: 4' bgs
DATE: 11-1-01 TIME: 10:30
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

3 - 5g ENCORE SAMPLERS — VOCs
1 - 125ml W/m GLASS JAR W/SEPTA — BULK VOCs
1 - 250ml W/m GLASS JAR — SVOCs
1 - 250ml W/m PLASTIC JAR — CHROMIUM

Volume Purged							
pH							
Temperature							
Specific Conductance							
Dissolved Oxygen							
Redox Potential							
Turbidity							

COLOR: GREY
ODOR:
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION CALM AMBIENT TEMP 65
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: JMH OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE,SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-8-3411
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: SB-43 (2-4) MS/MSD
QC LEVEL
MATRIX: SOIL
SAMPLING METHOD: DPT Rig, SS - SAMPLER
DUP./REP. OF:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES (X) NO ( )
BEGINNING DEPTH: 2' END DEPTH: 4' bgs
DATE: 11-1-01 TIME: 10:30
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

3 - 5g EnCore Samplers — √ VOCs
1 - 125 ml w/m Glass Jar w/Septa — Bulk VOCs
1 - 250 ml w/m Glass Jar — 5 VOCs
1 - 250 ml w/m Plastic Jar — Chromium

Volume Purged						
pH						
Temperature						
Specific Conductance						
Dissolved Oxygen						
Redox Potential						
Turbidity						

COLOR: GRAY
ODOR:
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION CALM AMBIENT TEMP 65°F
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: JDM OBSERVER: CAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-34
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: SB-43A (0-2)
QC LEVEL
MATRIX: SOIL
DUP./REP. OF:
SAMPLING METHOD: HAND AUGER
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: 0' END DEPTH: 2' bgs
DATE: 11-5-01 TIME: 1640
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

3- 5g ENCORE SAMPLERS — VOCs

1- 125 mL W/M GLASS W/ SEPTA — BULK VOCs

Volume Purged							
pH							
Temperature							
Specific Conductance							
Dissolved Oxygen							
Redox Potential							
Turbidity							

COLOR:	
ODOR:	
OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION CALM AMBIENT TEMP 60°
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: TOM OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-3411
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: SB-44 (2-4)
QC LEVEL
MATRIX SOIL
SAMPLING METHOD SS-SAMPLER
DUP./REP. OF:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: 2' END DEPTH: 4' bgs
DATE: 11-1-01 TIME: 1750
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

3 - 5g EN CORE SAMPLES — VOCs
1 - 125ml W/M GLASS JAL W/SEPTA — BULK VOCs
1 - 250ml W/M GLASS JAR — SVOCs
1 - 250ml W/M PLASTIC JAR — CHROMIUM

Volume Purged						
pH						
Temperature						
Specific Conductance						
Dissolved Oxygen						
Redox Potential						
Turbidity						

COLOR: DARK GREY
ODOR: —
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION CALM AMBIENT TEMP 60°F
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: JDA OBSERVER: BAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-346
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: SB-~~100~~ (2-4)
QC LEVEL
MATRIX SOIL
DUP./REP. OF: SB-44 (2-4)
SAMPLING METHOD SS-SAMPLER
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: 2' END DEPTH: 4' bgs
DATE: 11-1-01 TIME: 1200
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

3 - 5g EN CORE SAMPLERS — VOCs

1 - 125ml W/M GLASS JAR W/SEPTA — BULK VOCs

1 - 250ml W/M GLASS JAR — 5 VOCs

1 - 250 ml W/M PLASTIC JAR — CHROMIUM

Volume Purged						
pH						
Temperature						
Specific Conductance						
Dissolved Oxygen						
Redox Potential						
Turbidity						

COLOR: DARK GREY
ODOR:
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION CALM AMBIENT TEMP 60°
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: TOM OBSERVER: BAD

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-3411
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: SB-44 (6-8)
QC LEVEL
MATRIX SOIL
SAMPLING METHOD SS-SAMPLER
DUP./REP. OF:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: 6' END DEPTH: 8' bgs
DATE: 11-1-01 TIME: 1600
GRAB ( ) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

3 - 5g EN CORE SAMPLERS VOCs

1 - 125ml W/M GLASS JAR W/SEPTA BULK VOCs

1 - 250 ml W/M GLASS JAR SVOCs

1 - 250 ml W/M PLASTIC JAR CHROMIUM

Volume Purged						
pH						
Temperature						
Specific Conductance						
Dissolved Oxygen						
Redox Potential						
Turbidity						

COLOR: LIGHT BROWN
ODOR: —
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION CALM AMBIENT TEMP 60°F
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: TOM OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-3
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: SB-45 (0-2)
QC LEVEL
MATRIX SOIL
DUP./REP. OF:
SAMPLING METHOD HAND AUGER
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: 0' END DEPTH: 2' bgs
DATE: 10-31-01 TIME: 0930
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

1- 250 ml w/m GLASS JAR — SVOCs

Volume Purged						
pH						
Temperature						
Specific Conductance						
Dissolved Oxygen						
Redox Potential						
Turbidity						

COLOR: DARK BROWN
ODOR: EARTHY
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION CALM AMBIENT TEMP 60
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: TDM OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D.: HUNTER AAF
SITE: FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-3461
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: SB-46 (4-6)
QC LEVEL
MATRIX: SOIL
SAMPLING METHOD: DRILLING; SS SAMPLER
DUP./REP. OF:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: 4' END DEPTH: 6' bgs
DATE: 10-31-01 TIME: 1735
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

3 - 5g ENCORE SAMPLERS — VOCs
1 - 125mL W/M GLASS JAR W/SEPTA — BULK VOCs
1 - 250mL W/M GLASS JAR — SVOCs
1 - 250mL W/M PLASTIC JAR — CHROMIUM

Volume Purged						
pH						
Temperature						
Specific Conductance						
Dissolved Oxygen						
Redox Potential						
Turbidity						

COLOR: LIGHT YELLOWISH BROWN
ODOR: NONE
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION NE AMBIENT TEMP ~70°F
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: TOM OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE,SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-5
SUB-PROJECT #:

SAMPLE INFORMATION

QC LEVEL
MATRIX SOIL
SAMPLING METHOD DRILL RIG, SS-SAMPLER
BEGINNING DEPTH: 12' END DEPTH: 14' 6"

SAMPLE ID: SB-46 (12-14)
DUP./REP. OF:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
DATE: 10-31-01 TIME: 1750

GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

3 - 5g EnCore Samplers — VOCs

1 - 125ml w/n Glass Jar w/ Septa — Bulk VOCs

1 - 250ml w/n Glass Jar — SVOCs

1 - 250 ml w/n Plastic Jar — Chromium

Volume Purged							
pH							
Temperature							
Specific Conductance							
Dissolved Oxygen							
Redox Potential							
Turbidity							

COLOR: WHITE
ODOR: NONE
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION NE AMBIENT TEMP 65

SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____

SHIPPED TO: ____

SAMPLER: TDM OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-3444
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: SB-47 (2-4)
QC LEVEL
MATRIX SOIL
DUP./REP. OF:
SAMPLING METHOD HAND AUGER
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: 2' END DEPTH: 4' bgl
DATE: 10-31-01 TIME: 11:45
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

1- 250ml w/m PLASTIC JAR BARIUM

Volume Purged						
pH						
Temperature						
Specific Conductance						
Dissolved Oxygen						
Redox Potential						
Turbidity						

COLOR: DARK BROWN TO BLACK
ODOR: SLIGHT OIL SMELL ("TAR")
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ~70'F
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: JOM OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-3
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: SB-48 (2-5)
QC LEVEL
MATRIX: SOIL
DUP./REP. OF:
SAMPLING METHOD: HAND AUGER
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: 2' END DEPTH: 5' bgs
DATE: 10-31-01 TIME: 1050
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

1 - 250 ml w/m PLASTIC JAR CHROMIUM

Volume Purged						
pH						
Temperature						
Specific Conductance						
Dissolved Oxygen						
Redox Potential						
Turbidity						

COLOR: DARK BROWN	
ODOR: EARTHY	
OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP 60
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: TOM OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-3411
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: SB-49 (0-2)
QC LEVEL
MATRIX SOIL
DUP./REP. OF:
SAMPLING METHOD HAND AUGER
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: 0' END DEPTH: 2'
DATE: 10-31-01 TIME: 1005
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

1 - 250 ml w/m GLASS JAR — SVOCs

Volume Purged						
pH						
Temperature						
Specific Conductance						
Dissolved Oxygen						
Redox Potential						
Turbidity						

COLOR: LIGHT BROWN
ODOR: EARTHY
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION CALM AMBIENT TEMP 60°F
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: JRM OBSERVER: BAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D.: HUNTER AAF
SITE: FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-3
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: SB-50 (0-2)
QC LEVEL
MATRIX: SOIL
DUP./REP. OF:
SAMPLING METHOD: HAND AUGER
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: 0' END DEPTH: 2' bgs
DATE: 10-31-01 TIME: 09:00
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

1 - 250 ml w/m glass JAR

SVOCs

Volume Purged						
pH						
Temperature						
Specific Conductance						
Dissolved Oxygen						
Redox Potential						
Turbidity						

COLOR: BROWN / GREY
ODOR: EARTHY
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION CALM AMBIENT TEMP 55
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: JOK OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-3411
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: SB-EQBLK01
QC LEVEL
MATRIX AQUEOUS
SAMPLING METHOD —
DUP./REP. OF:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: — END DEPTH: —
DATE: 10-31-01 TIME: 0805
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
3 - 40ml VOAs		HCL			VOCs
2 - 1L AMBERS					SVOCs
1 - 250ml NALGENE		HNO_3			METALS (CHROMIUM)
~~1 - 250ml NALGENE~~		~~HNO_3~~			~~Hg~~

N/A

EQUIPMENT RINSATE BLANK OF DEIONIZED HAND AUGER BUCKET & SS BOWL W/ SPOON

Volume Purged						
pH						
Temperature						
Specific Conductance						
Dissolved Oxygen						
Redox Potential						
Turbidity						

COLOR: CLEAR
ODOR: NONE
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION CALM AMBIENT TEMP 50°F
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: JDM OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D. : HUNTER AAF
SITE : _____

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE,SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: _____
SUB-PROJECT #: _____

SAMPLE INFORMATION

SAMPLE ID: SB - EQBLANK 02
QC LEVEL _____
MATRIX AQUEOUS
SAMPLING METHOD —
DUP./REP. OF: _____
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: — END DEPTH: —
DATE: 11-1-01 TIME: 11:00
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

3 - 40 ml VOAs HCl VOCs

2 - 1 L - AMBERS SVOCs

1 - 250 ml NALGENE HNO_3 CHROMIUM

EQUIPMENT RINSATE BLANK OF DECONNED SS-SAMPLER, SS-BOWL & SPOON

Volume Purged						
pH						
Temperature						
Specific Conductance						
Dissolved Oxygen						
Redox Potential						
Turbidity						

COLOR: CLEAR
ODOR: —
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP 60's
SHIPMENT VIA: FED-X _____ HAND DELIVER X COURIER _____ OTHER _____
SHIPPED TO: _____
SAMPLER: JDM OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D.: HUNTER AAF
SITE: FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-3411
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: IDW-DECON
QC LEVEL
MATRIX: AQUEOUS
DUP./REP. OF:
SAMPLING METHOD: COLLECTED IDW USING DISPOSABLE SAMPLING CONTAINERS
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: — END DEPTH: —
DATE: 11-6-01 TIME: 2150
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

3 - 40ml VOAs HCL VOCs
2 - 1L - AMBERS SVOCs, OIL & GREASE
1 - 250ml NALGENE HNO_3 METALS (7 RCRA)
1 - 250ml NALGENE HNO_3 Hg (8th RCRA)

Volume Purged						
pH						
Temperature						
Specific Conductance						
Dissolved Oxygen						
Redox Potential						
Turbidity						

COLOR: CLOUDY W/ SUDS
ODOR: NONE NOTED
OTHER:

GENERAL INFORMATION

WEATHER: DARK SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION CALM AMBIENT TEMP 50°F
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: TOM OBSERVER: GAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D.: HUNTER AAF
SITE: FTA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-3411
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: HMW-100
QC LEVEL
MATRIX: AQUEOUS
DUP./REP. OF: HMW-3
SAMPLING METHOD: PERISTALTIC, BAILER
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: END DEPTH:
DATE: 11-6-01 TIME: 1200
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
3 - 40ml VOA VIALS		HCL			VOCs
2 - 1 LITER AMBERS					SVOCs
1 - 250 ml NALGENE		HNO_3			METALS (7 OF 8 RCRA)
1 - 250 ml NALGENE		HNO_3			Hg

Volume Purged	0	4	7	10	13	17
pH	5.80	5.78	5.73	5.75	5.70	5.78
Temperature	59.4	57.0	55.8	57.7	57.8	57.7
Specific Conductance	148	134	136	139	146	144
Dissolved Oxygen						
Redox Potential						
Turbidity	5.59	3.38	2.83	2.86	1.83	1.17

COLOR: CLEAR
ODOR: NONE
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION CALM AMBIENT TEMP 50°F
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO: ____
SAMPLER: JDM OBSERVER: BAO

FIGURE 2-4

FIELD SAMPLING REPORT

FACILITY I.D.: HUNTER AAF
SITE: ETA

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
114 TOWN PARK DRIVE, SUITE 400 KENNESAW, GA 30144-5569
PHONE: (770) 499-6800 / FAX: (770) 421-3593

PROJECT #: 12001-9-
SUB-PROJECT #:

SAMPLE INFORMATION

SAMPLE ID: HMW-3
QC LEVEL
MATRIX: AQUEOUS
SAMPLING METHOD: PERISTALTIC
DUP./REP. OF:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES( ) NO(X)
BEGINNING DEPTH: END DEPTH:
DATE: 11-6-01 TIME: 2015 HR
GRAB (X) COMPOSITE ( )

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
3 - 40ml VOA VIALS		HCL			VOCs
2 - 1 LITER AMBERS					SVOCs
1 X - 250 ml NALGENE		HNO_3			METALS (7 OF THE 8-RCRA)
1 - 250 ml NALGENE		HNO_3			Hg

Volume Purged	0	4	7	10	13	17
pH	5.80	5.78	5.73	5.75	5.70	5.78
Temperature	59.4	57.0	55.8	57.7	57.8	57.7
Specific Conductance	148	134	136	139	146	144
Dissolved Oxygen						
Redox Potential						
Turbidity	5.59	3.38	2.83	2.86	1.83	1.17

COLOR: CLEAR
ODOR: NONE
OTHER:

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION CALM AMBIENT TEMP 50°
SHIPMENT VIA: FED-X ____ HAND DELIVER X COURIER ____ OTHER ____
SHIPPED TO:
SAMPLER: TDM OBSERVER: GAO

APPENDIX D

Soil Boring Logs and Monitoring Well Diagrams

Hunter AAF, Fire Training Area Fort Stewart, GA	**Log of Boring No. HSB-01**	Sheet No. 1 of 1

Client:	U.S. Army Corps of Engineers	Boring Started:	2/12/90
Project Number:	3902018	Boring Completed:	2/12/90
Drilling Contractor:	Layne Environmental, Inc.	Boring Diameter:	N/A
Driller:	M. Barton	Well Casing Diameter:	N/A
Logged By:	T. Trent	Surface Elevation:	N/A
Drilling Method:	CME Continuous Sampler	Elevation Datum:	N/A
Boring Location:	97' North of Northwest Corner of Pit	Type of Drill Rig:	Mobile B-57

Elevation	Depth	Samp. Type and Diam.	Samp. Adv. / Len Core	Sample Rec. / Core Rec.	Sample Blows "N" / % Core Recovery	Well Construction	Lithology	MATERIAL DESCRIPTION	Moisture Content Percent (20 40 60 80) / PL | LL (20 40 60 80)
		CS	5'	5'				(SM) SAND, silty, medium to coarse grained, black, with trace organics, wet (PID = 0)	
								3 ft - fine grained, light brown (PID = 0)	
	5	CS	5'	5'				5 ft - gray, saturated (PID = 0)	
								(SC) SAND, clayey, gray and reddish-brown	
								(SP) SAND, poorly graded, fine to medium grained, light brown, saturated (PID = 0)	
	10							BORING TERMINATED AT 10.0 FT BGS	

CS = CME ® Continuous Sampler
▽ = Water Level Encountered During Drilling ▼ = Water Level After Well Development
LL = Liquid Limit
PL = Plastic Limit

HUNTER/ESE

Hunter AAF, Fire Training Area Fort Stewart, GA	**Log of Boring No. HSB-02**	Sheet No. 1 of 1

Client:	U.S. Army Corps of Engineers	Boring Started:	2/13/90
Project Number:	3902018	Boring Completed:	2/13/90
Drilling Contractor:	Layne Environmental, Inc.	Boring Diameter:	N/A
Driller:	M. Barton	Well Casing Diameter	N/A
Logged By:	T. Trent	Surface Elevation:	N/A
Drilling Method:	CME Continuous Sampler	Elevation Datum:	N/A
Boring Location:	42' Southwest of Northwest Corner of Pit	Type of Drill Rig:	Mobile B-57

Elevation	Depth	Samp. Type and Diam.	Samp. Adv. / Len Core	Sample Rec. / Core Rec.	Sample Blows "N" / % Core Recovery	Well Construction	Lithology	MATERIAL DESCRIPTION	Moisture Content Percent (20 40 60 80); PL | LL (20 40 60 80)
		CS	5'	5'				(SM) SAND, silty, fine to medium grained, brown, moist (PID = 50 - 100)	
								2 ft - black (PID = 500)	
								4 ft - light brown and gray, wet	
	5	CS	5'	5'				(SW) SAND, well graded, fine to coarse grained, gray and white, saturated (PID = 360)	
								8 ft - light gray (PID = 240)	
	10							BORING TERMINATED AT 10.0 FT BGS	

CS = CME® Continuous Sampler

▽ = Water Level Encountered During Drilling

▼ = Water Level After Well Development

LL = Liquid Limit

PL = Plastic Limit

HUNTER/ESE

Hunter AAF, Fire Training Area Fort Stewart, GA	**Log of Boring No. HSB-03**	Sheet No. 1 of 1

Client:	U.S. Army Corps of Engineers	Boring Started:	2/13/90
Project Number:	3902018	Boring Completed:	2/13/90
Drilling Contractor:	Layne Environmental, Inc.	Boring Diameter:	N/A
Driller:	M. Barton	Well Casing Diameter:	N/A
Logged By:	T. Trent	Surface Elevation:	N/A
Drilling Method:	CME Continuous Sampler	Elevation Datum:	N/A
Boring Location:	75' West Northwest of Southwest Corner of Pit	Type of Drill Rig:	Mobile B-57

Elevation	Depth	Samp. Type and Diam.	Samp. Adv. / Len Core	Sample Rec. / Core Rec.	Sample Blows "N" / % Core Recovery	Well Construction	Lithology	MATERIAL DESCRIPTION	Moisture Content Percent (20 40 60 80) / PL | LL (20 40 60 80)
		CS	5'	5'				(SM) SAND, silty, fine to medium grained, black and brown, with little organics, moist (PID = 0)	
								3 ft - fine to coarse grained, light gray and brown, wet	
								4 ft - gray and black, wet (PID = 0)	
	5	CS	5'	5'				5 ft - black	
								(SP) SAND, poorly graded, coarse grained, light gray, saturated (PID = 186)	
								8 ft - light gray and brown (PID = 84)	
	10							BORING TERMINATED AT 10.0 FT BGS	

CS = CME ® Continuous Sampler

▽ = Water Level Encountered During Drilling ▼ = Water Level After Well Development

LL = Liquid Limit
PL = Plastic Limit

HUNTER/ESE

Hunter AAF, Fire Training Area
Fort Stewart, GA

Log of Boring No. HSB-04

Sheet No 1 of 1

Client:	U.S. Army Corps of Engineers	Boring Started:	2/13/90
Project Number:	3902018	Boring Completed:	2/13/90
Drilling Contractor:	Layne Environmental, Inc.	Boring Diameter:	N/A
Driller:	M. Barton	Well Casing Diameter:	N/A
Logged By:	T. Trent	Surface Elevation:	N/A
Drilling Method:	CME Continuous Sampler	Elevation Datum:	N/A
Boring Location:	122' Southwest of Southwest Corner of Pit	Type of Drill Rig:	Mobile B-57

Elevation	Depth	Samp. Type and Diam.	Samp. Adv. / Len Core	Sample Rec. / Core Rec.	Sample Blows "N" / % Core Recovery	Well Construction	Lithology	MATERIAL DESCRIPTION	Moisture Content Percent × 20 40 60 80 / PL | LL | 20 40 60 80
		CS	5'	5'				(SC) SAND, clayey, fine to medium grained, red and brown, moist (PID = 4)	
	5	CS	5'	5'				(SM) SAND, silty, fine to medium grained, black and gray, wet (PID = 166)	
								5 ft - fine to coarse grained, saturated (PID = 61)	
								(PID = 53)	
	10							BORING TERMINATED AT 10.0 FT BGS	

CS = CME ® Continuous Sampler
▽ = Water Level Encountered During Drilling
▼ = Water Level After Well Development
LL = Liquid Limit
PL = Plastic Limit

HUNTER/ESE

Hunter AAF, Fire Training Area Fort Stewart, GA	**Log of Boring No. HSB-05**	Sheet No. 1 of 1

Client:	U.S. Army Corps of Engineers	Boring Started:	2/13/90
Project Number:	3902018	Boring Completed:	2/13/90
Drilling Contractor:	Layne Environmental, Inc.	Boring Diameter:	N/A
Driller:	M. Barton	Well Casing Diameter	N/A
Logged By:	T. Trent	Surface Elevation:	N/A
Drilling Method:	CME Continuous Sampler	Elevation Datum:	N/A
Boring Location:	34' Southwest of Southeast Corner of Pit	Type of Drill Rig:	Mobile B-57

Elevation	Depth	Samp. Type and Diam.	Samp. Adv. / Len Core	Sample Rec. / Core Rec.	Sample Blows "N" / % Core Recovery	Well Construction	Lithology	MATERIAL DESCRIPTION	Moisture Content Percent (20 40 60 80) / PL LL (20 40 60 80)
		CS	5'	5'				(SM) SAND, silty, fine to medium grained, brown, with trace organics, moist (PID = 0)	
								2 ft - gray and black, wet (PID = 5)	
	5	CS	5'	5'				5 ft - fine to coarse grained, saturated (PID = 25)	
								8 ft - brown (PID = 20)	
	10							BORING TERMINATED AT 10.0 FT BGS	

CS = CME ® Continuous Sampler

▽ = Water Level Encountered During Drilling ▽ = Water Level After Well Development

LL = Liquid Limit
PL = Plastic Limit

HUNTER/ESE

Hunter AAF, Fire Training Area
Fort Stewart, GA

Log of Boring No. HSB-06

Sheet No. 1 of 1

Client:	U.S. Army Corps of Engineers	Boring Started:	2/13/90
Project Number:	3902018	Boring Completed:	2/13/90
Drilling Contractor:	Layne Environmental, Inc.	Boring Diameter:	N/A
Driller:	M. Barton	Well Casing Diameter:	N/A
Logged By:	T. Trent	Surface Elevation:	N/A
Drilling Method:	CME Continuous Sampler	Elevation Datum:	N/A
Boring Location:	75' Southwest of Southeast Corner of Pit	Type of Drill Rig:	Mobile B-57

Elevation	Depth	Samp. Type and Diam.	Samp. Adv. / Len Core	Sample Rec. / Core Rec.	Sample Blows "N" / % Core Recovery	Well Construction	Lithology	MATERIAL DESCRIPTION	Moisture Content Percent (20 40 60 80) / PL | LL (20 40 60 80)
		CS	5'	5'				(SC) SAND, clayey, fine to medium grained, reddish-brown, moist (PID = 4)	
	5	CS	5'	5'				(SM) SAND, silty, fine to coarse grained, gray and black, wet (PID = 31)	
								5 ft - white and brown, saturated (PID = 27)	
	10							(PID = 36)	
								BORING TERMINATED AT 10.0 FT BGS	

CS = CME ® Continuous Sampler
▽ = Water Level Encountered During Drilling
▼ = Water Level After Well Development
LL = Liquid Limit
PL = Plastic Limit

HUNTER/ESE

Hunter AAF, Fire Training Area
Fort Stewart, GA

Log of Boring No. HMW-01

Sheet No 1 of 2

Client:	U.S. Army Corps of Engineers	Boring Started:	2/7/90
Project Number:	3902018	Boring Completed:	2/7/90
Drilling Contractor:	Layne Environmental, Inc.	Boring Diameter:	10 inch
Driller:	M. Barton	Well Casing Diameter:	2 inch
Logged By:	T. Trent	Surface Elevation:	35 1 ft
Drilling Method:	Hollow-Stem Auger	Elevation Datum:	NGVD
Boring Location:	N734794.83 E816369.15	Type of Drill Rig:	Mobile B-57

Elevation	Depth	Samp. Type and Diam.	Samp. Adv. Len Core	Sample Rec. Core Rec.	Sample "N" Blows % Core Recovery	Well Construction	Lithology	MATERIAL DESCRIPTION	Moisture Content Percent 20 40 60 80 / PL | LL | 20 40 60 80
35		SS	1.5		2-3-3			(SM) SAND, silty, fine grained, brown, gray, and tan, loose (PID=0)	
		SS	1.5		2-1-2			(SP) SAND, poorly graded, fine grained, light brown, loose, wet (PID=0)	
	5	SS	1.5	0.4	2-2-3			4 ft - (PID=0)	
30		SS	1.5	1.1	4-6-11			(SC) SAND, clayey, gray and reddish-brown, medium dense, wet (PID=0)	
		SS	1.5	0.4	4-3-2			(SP) SAND, poorly graded, fine to medium grained, white and gray, loose, saturated (PID=0)	
25	10	SS	1.5	1.1	6-7-7			10 ft - light gray, medium dense, with trace clay (PID=0)	
		SS	1.5	0.4	4-6-9			(SM) SAND, silty, white-gray and reddish-brown, medium dense, saturated (PID=0)	
	15	SS	1.5	1.5	7-9-9			14 ft - light gray-brown (PID=0)	
20		SS	1.5	1.5	9-10-10			(SP) SAND, poorly graded, fine to medium grained, light brown and very pale brown, medium dense, saturated (PID=0)	
		SS	1.5	1.5	3-5-6			18 ft - dark grayish-brown and very pale brown (PID=0)	
	20	SS	1.5	1.5	1-2-1			(SM) SAND, silty, gray, loose, saturated (PID=0)	
15		SS	1.5	1.5	1-0-1			22 ft - (PID=0)	
		SS	1.5	1.5	1-1-1			24 ft - (PID=0)	
	25								
10		SS	1.5	0.8	3-2-1			26 ft - (PID=0)	
		SS	1.5		6-3-3			28 ft - (PID=0)	
	30								
5		SS	1.5	1.1	3-2-3			30 ft - (PID=0)	
		SS	1.5	1.5	3-3-4			32 ft - (PID=0)	
		SS	1.5	1.5	3-2-6			34 ft - (PID=0)	

SS = Splitspoon
▽ = Water Level Encountered During Drilling
▼ = Water Level After Well Development
LL = Liquid Limit
PL = Plastic Limit

HUNTER/ESE

Hunter AAF, Fire Training Area Fort Stewart, GA	**Log of Boring No. HMW-01**	Sheet No. 2 of 2

Client:	U.S. Army Corps of Engineers	Boring Started:	2/7/90
Project Number:	3902018	Boring Completed:	2/7/90
Drilling Contractor:	Layne Environmental, Inc.	Boring Diameter:	10 inch
Driller:	M. Barton	Well Casing Diameter:	2 inch
Logged By:	T. Trent	Surface Elevation:	35.1 ft
Drilling Method:	Hollow-Stem Auger	Elevation Datum:	NGVD
Boring Location:	N734794.83 E816369.15	Type of Drill Rig:	Mobile B-57

Elevation	Depth	Samp. Type and Diam.	Samp. Adv. / Len Core	Sample Rec. / Core Rec.	Sample Blows "N" / % Core Recovery	Well Construction	Lithology	MATERIAL DESCRIPTION	Moisture Content Percent (20 40 60 80) / PL | LL (20 40 60 80)
0									
		SS	1.5	1.5	1-1-2			36 ft - (PID=0)	
		SS	1.5	1.5				38 ft - (PID=0)	
	40	SS	1.5	1.5				40 ft - (PID=0)	
-5		SS	1.5	1.5	5-7-13			42 ft - (PID=0)	
		SS	1.5	1.5	8-8-4			(SM-SC) SAND, silty, clayey, fine to coarse grained, medium dense, saturated (PID=0)	
	45								
-10		SS	1.5	1.5	4-7-6			(SM) SAND, silty, fine to coarse grained, gray, medium dense, saturated (PID=0)	
		SS	1.5	1.5				(SP) SAND, poorly graded, fine to medium grained, gray, saturated (PID=0)	
	50							BORING TERMINATED AT 50.0 FT BGS	

SS = Splitspoon
▽ = Water Level Encountered During Drilling
▼ = Water Level After Well Development
LL = Liquid Limit
PL = Plastic Limit

HUNTER/ESE

AAAP 10/14/85

MONITOR WELL CONSTRUCTION

Logged By: Tom Trent
Drilling Contractor: Layne Environmental
Driller's Name: Mark Barton
Well Number: HMW-1

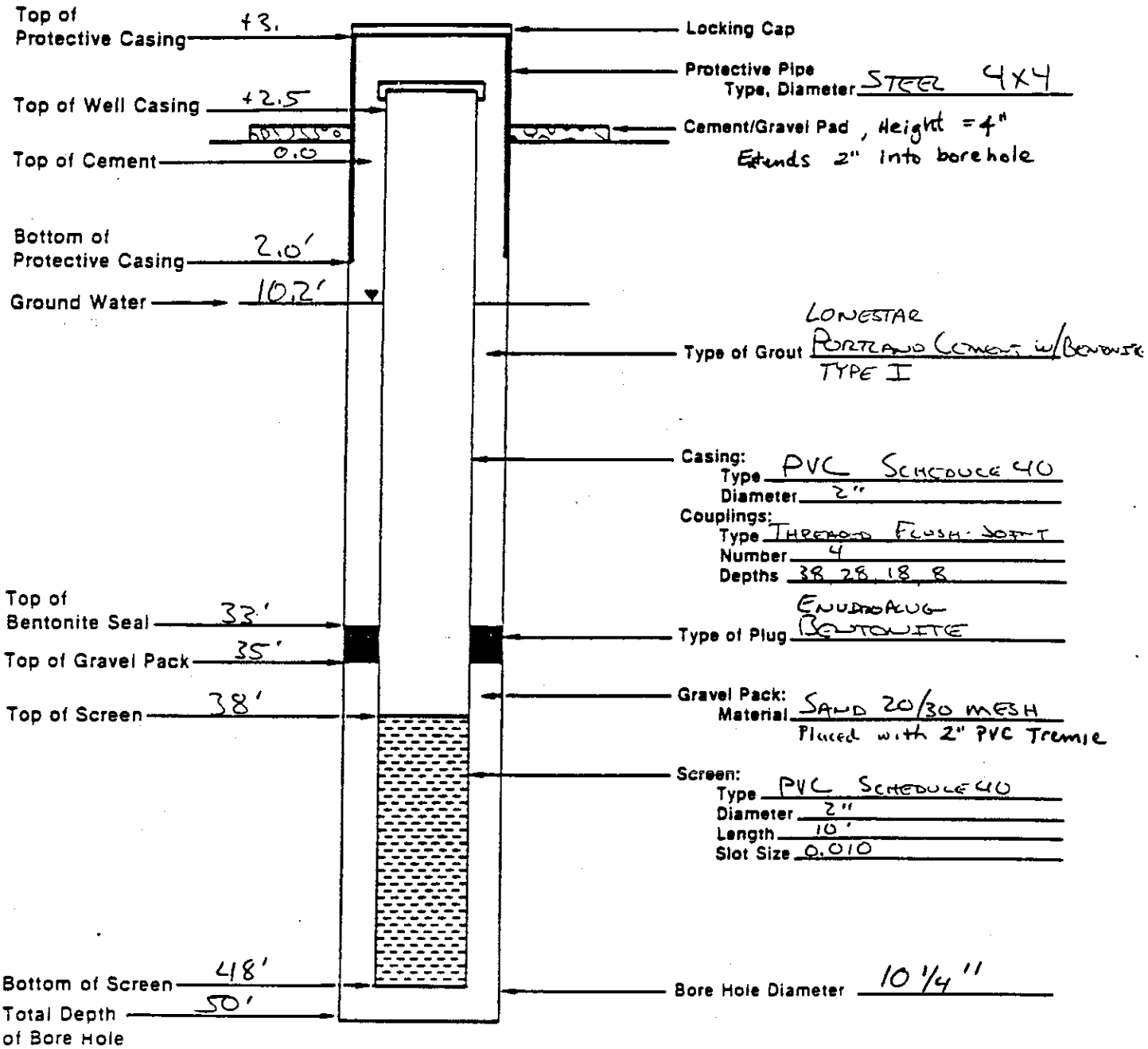
Client: Army Corps of Engineers
Location: Ft Stewart - Hunter AAF
Job Number: 3402018
Date/Time: Start 2-7-90/1515 Finish 2-7-90/1830

Comments (Lost circulation interval, Water level changes, Hole collapse interval, etc.):

Complete Grout : 1830 , 2-7
Begin Development : 1600 , 2-12
Elapsed Time : 117.5

Method of Development : Pumping
Total Volume of Water Extracted : 60 gal.

Depths in Reference to Ground Level



NOT TO SCALE

Hunter AAF, Fire Training Area Fort Stewart, GA	**Log of Boring No. HMW-02**	Sheet No 1 of 1

Client:	U.S. Army Corps of Engineers	Boring Started:	2/9/90
Project Number:	3902018	Boring Completed:	2/9/90
Drilling Contractor:	Layne Environmental, Inc.	Boring Diameter:	10 inch
Driller:	M. Barton	Well Casing Diameter:	2 inch
Logged By:	T. Trent	Surface Elevation:	34.6 ft
Drilling Method:	Hollow-Stem Auger	Elevation Datum:	NGVD
Boring Location:	N734786.66 E816362.34	Type of Drill Rig:	Mobile B-57

Elevation	Depth	Samp. Type and Diam.	Samp. Adv. / Len Core	Sample Rec. / Core Rec.	Sample Blows "N" / % Core Recovery	Well Construction	Lithology	MATERIAL DESCRIPTION	Moisture Content Percent (20 40 60 80) / PL | LL (20 40 60 80)
35								NO SAMPLES COLLECTED	
	5								
30									
	10								
25									
	15							BORING TERMINATED AT 15.0 FT BGS	

SS = Splitspoon
▽ = Water Level Encountered During Drilling
▼ = Water Level After Well Development
LL = Liquid Limit
PL = Plastic Limit

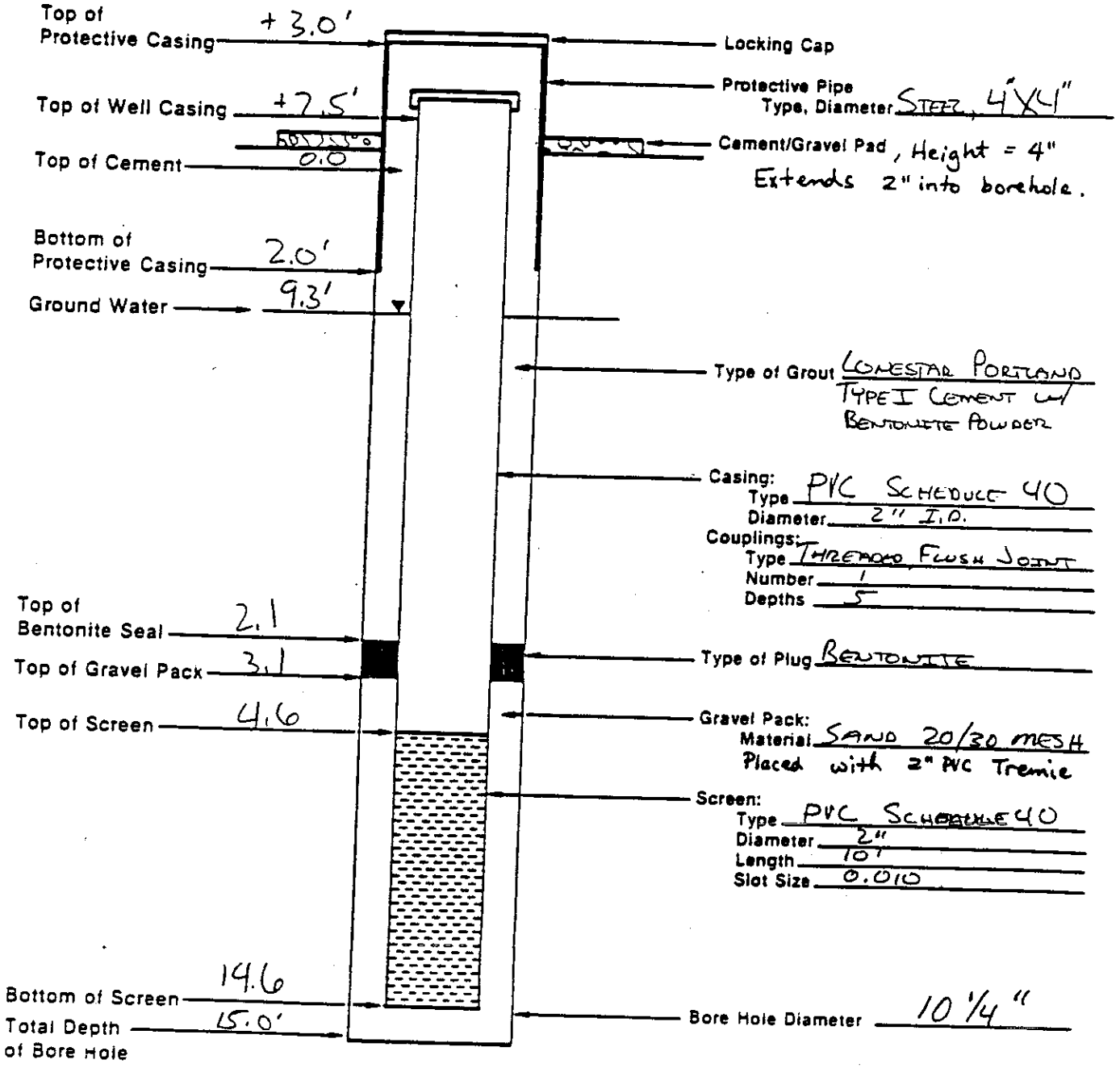
HUNTER/ESE

AAAP 10.4.84

MONITOR WELL CONSTRUCTION

Logged By: T. TRENT
Drilling Contractor: LAYNE ENVIRONMENTAL
Driller's Name: ~~JERRY~~ MARK RABTON
Well Number: HMW-2
Client: ARMY CORPS OF ENGINEERS
Location: FT. STEWART - HUNTER AAF
Job Number: 3902018
Date/Time: Start 1600/2-9-90 Finish 1820/2-9-90
Comments (Lost circulation interval, Water level changes, Hole collapse interval, etc.):
Complete Grout : 1820, 2-9
Begin Development: 740, 2-13
Elapsed Time : 85.3 hrs.
Method of Development : Pumping
Total Volume of Water Extracted : 115 gal.

Depths in Reference to Ground Level



NOT TO SCALE

Hunter AAF, Fire Training Area
Fort Stewart, GA

Log of Boring No. HMW-03

Client:	U.S. Army Corps of Engineers	Boring Started:	2/8/90
Project Number:	3902018	Boring Completed:	2/9/90
Drilling Contractor:	Layne Environmental, Inc.	Boring Diameter:	10 inch
Driller:	M. Barton	Well Casing Diameter:	2 inch
Logged By:	T. Trent	Surface Elevation:	26.6 ft
Drilling Method:	Hollow-Stem Auger	Elevation Datum:	NGVD
Boring Location:	N734719.69 E816011.23	Type of Drill Rig:	Mobile B-57

Elevation	Depth	Samp. Type and Diam.	Samp. Adv. / Len Core	Sample Rec. / Core Rec.	Sample Blows "N" / % Core Recovery	Well Construction	Lithology	MATERIAL DESCRIPTION	Moisture Content Percent (20 40 60 80) / PL | LL (20 40 60 80)
25		SS	1.5	1.5	2-3-5			(SM) SAND,silty, fine grained, with organics, black, loose, moist (PID=0)	
	5	SS	1.5	0.8	1-3-3			5 ft - fine to medium grained, black and gray (PID=0)	
20									
		SS	1.5	1.1	4-5-4			9 ft - light brown and black (PID=0)	×
	10								
15									
		SS	1.5	0.8	3-4-7			14 ft - gray, black, and brown, medium dense, saturated (PID=0)	
	15								
10									
		SS	1.5	1.1	0-4-6			19 ft - medium to coarse grained, gray (PID=0)	
	20								
5									
		SS	1.5		3-4-3			24 ft - loose, moist (PID=0)	
	25								
0									
		SS	1.5		3-3-3			29 ft - wet (PID=0)	
	30								
-5									
		SS	1.5		3-4-4			(SP) SAND, poorly graded, fine to medium grained,	

SS = Splitspoon
▽ = Water Level Encountered During Drilling
▼ = Water Level After Well Development
LL = Liquid Limit
PL = Plastic Limit

HUNTER/ESE

Hunter AAF, Fire Training Area
Fort Stewart, GA

Log of Boring No. HMW-03

Client:	U.S. Army Corps of Engineers	Boring Started:	2/8/90
Project Number:	3902016	Boring Completed:	2/9/90
Drilling Contractor:	Layne Environmental, Inc.	Boring Diameter:	10 inch
Driller:	M. Barton	Well Casing Diameter:	2 inch
Logged By:	T. Trent	Surface Elevation:	26.6 ft
Drilling Method:	Hollow-Stem Auger	Elevation Datum:	NGVD
Boring Location:	N734719.69 E816011.23	Type of Drill Rig:	Mobile B-57

Elevation	Depth	Samp. Type and Diam.	Samp. Adv. / Len Core	Sample Rec. / Core Rec.	Sample Blows "N" / % Core Recovery	Well Construction	Lithology	MATERIAL DESCRIPTION	Moisture Content Percent (20 40 60 80) / PL | LL | (20 40 60 80)
								loose, wet (PID=0)	
-10									
	40	SS	1.5		2-4-9			39 ft - medium dense	×
-15									
	45	SS	1.5						
-20									
	50							BORING TERMINATED AT 50.0 FT BGS	

SS = Splitspoon
▽ = Water Level Encountered During Drilling
▼ = Water Level After Well Development
LL = Liquid Limit
PL = Plastic Limit

HUNTER/ESE

AAAP 10/4/85

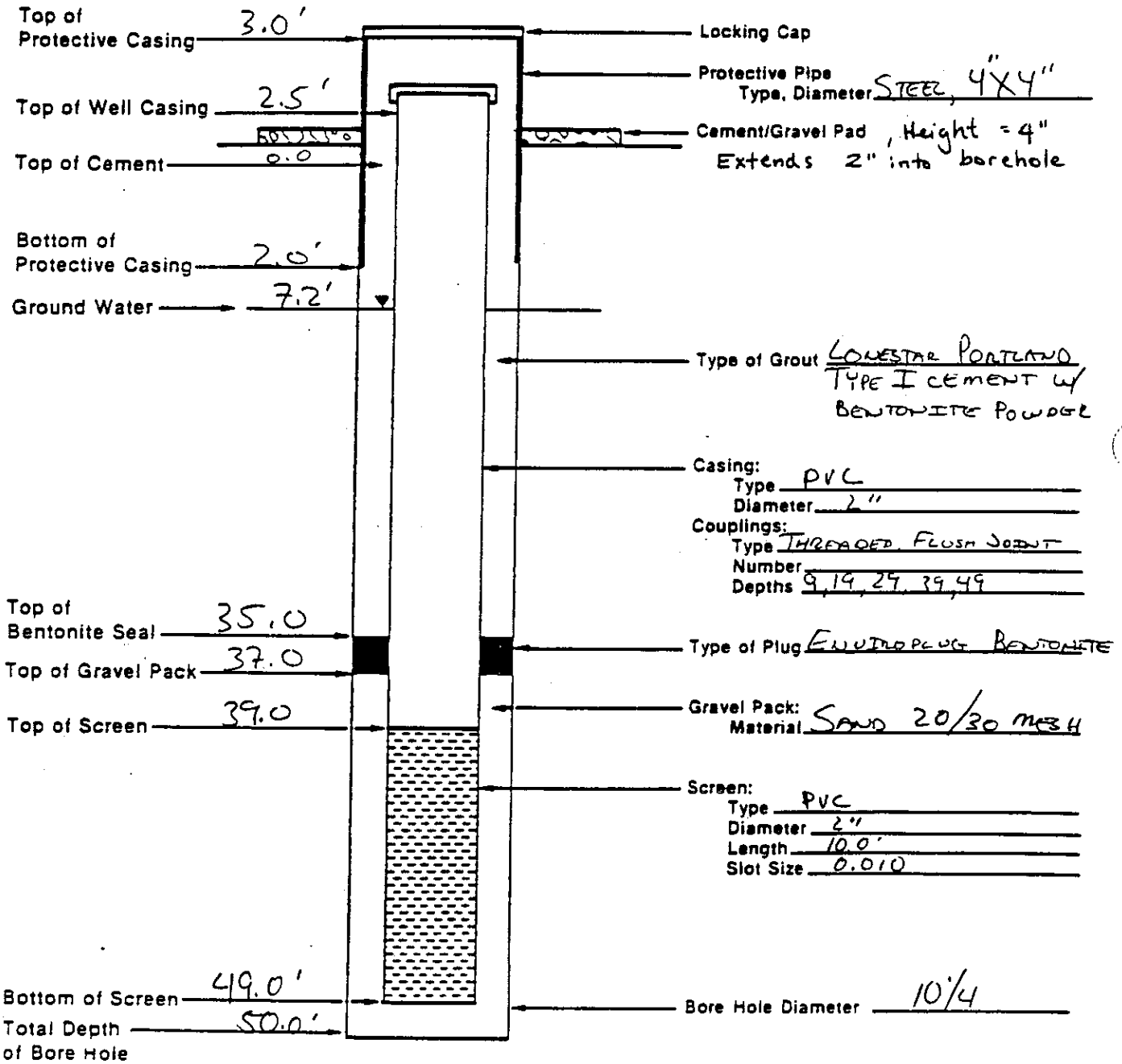
MONITOR WELL CONSTRUCTION

Logged By: TORGUT
Drilling Contractor: LAYNE ENVIRONMENTAL
Driller's Name: MARL BARTON
Well Number: H MW-3

Client: ARMY CORPS OF ENGINEERS
Location: FT STEWART - HUNTER AAF
Job Number: 3902018
Date/Time: Start 2-10-90/1200 Finish 2-10-90/1630

Comments (Lost circulation interval, Water level changes, Hole collapse interval, etc.):
Complete Grout : 1630, 2-10
Begin Development: 1300, 2-13
Elapsed time : 68.5 hr
Method of Development : Pumping
Total Volume of Water Extracted: 260gal.

Depths in Reference to Ground Level



NOT TO SCALE

Hunter AAF, Fire Training Area
Fort Stewart, GA

Log of Boring No. HMW-04

Sheet No. 1 of 1

Client:	U.S. Army Corps of Engineers	Boring Started:	2/12/90
Project Number:	3902018	Boring Completed	2/12/90
Drilling Contractor:	Layne Environmental, Inc.	Boring Diameter:	10 inch
Driller:	M. Barton	Well Casing Diameter	2 inch
Logged By:	T. Trent	Surface Elevation:	27.2 ft
Drilling Method:	Hollow-Stem Auger	Elevation Datum:	NGVD
Boring Location:	N734718.92 E816017.56	Type of Drill Rig	Mobile B-57

Elevation	Depth	Samp. Type and Diam.	Samp. Adv. Len Core	Sample Rec. Core Rec.	Sample Blows "N" % Core Recovery	Well Construction	Lithology	MATERIAL DESCRIPTION	Moisture Content Percent (20 40 60 80) PL | LL (20 40 60 80)
25	0							NO SAMPLES COLLECTED	
20	5								
15	10								
	15							BORING TERMINATED AT 15.0 FT BGS	

SS = Splitspoon
▽ = Water Level Encountered During Drilling
▼ = Water Level After Well Development
LL = Liquid Limit
PL = Plastic Limit

HUNTER/ESE

AAAP 10/4/85

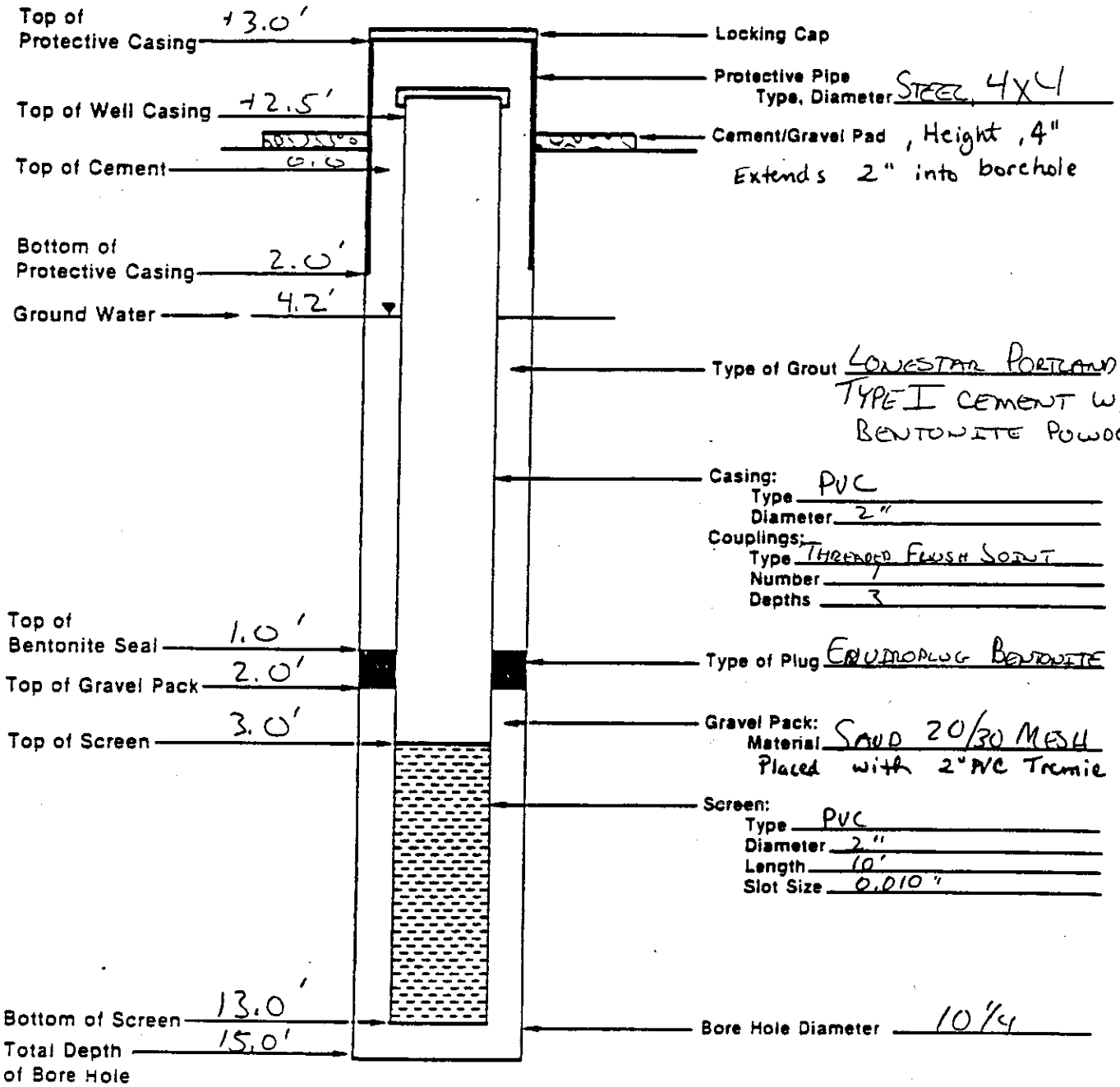
MONITOR WELL CONSTRUCTION

Logged By: J. TRENT
Drilling Contractor: LAYNE ENVIRONMENTAL
Driller's Name: MARK BARTON
Well Number: HMW-4

Client: ARMY CORPS OF ENGINEERS
Location: FT. STEWART - HUNTER AAF
Job Number: 390208
Date/Time: Start 2-12-90/1430 Finish 2-12-90/1530

Comments (Lost circulation interval, Water level changes, Hole collapse interval, etc.):
Complete Grout.: 1530, 2:12
Begin well Development: 1500, 2-13
Elapsed Time: 23.5 hr.
Method of Development: Pumping
Total Volume of Water Extracted: 150 gal

Depths in Reference to Ground Level



NOT TO SCALE

Hunter AAF, Fire Training Area
Fort Stewart, GA

Log of Boring No. HMW-05

Sheet No 1 of 2

Client:	U.S. Army Corps of Engineers	Boring Started:	2/11/90
Project Number:	3902018	Boring Completed:	2/11/90
Drilling Contractor:	Layne Environmental, Inc.	Boring Diameter:	10 inch
Driller:	M. Barton	Well Casing Diameter:	2 inch
Logged By:	T. Trent	Surface Elevation:	28.8 ft
Drilling Method:	Hollow-Stem Auger	Elevation Datum	NGVD
Boring Location:	N734495.13 E816073.98	Type of Drill Rig:	Mobile B-57

Elevation	Depth	Samp. Type and Diam.	Samp. Adv. Len Core	Sample Rec. Core Rec.	Sample Blows "N" % Core Recovery	Well Construction	Lithology	MATERIAL DESCRIPTION	Moisture Content Percent (20 40 60 80) PL | LL (20 40 60 80)
25	5	SS	1.5		3-5-8			(SM) SAND, silty, fine grained, with some organics, black, medium dense, moist (PID=0)	
		SS	1.5	1.1	5-8-9			5 ft - medium to coarse grained, light gray, wet (PID=1)	
20	10	SS	1.5	0.8	2-2-3			10 ft - fine to medium grained, light brown, loose, saturated (PID=2)	
15	15	SS	1.5		2-3-0				
10	20	SS	1.5	0.8	1-2-7			20 ft - gray (PID=1)	
5	25	SS	1.5		5-4-3			25 ft - (PID=0)	
0	30	SS	1.5		2-3-5			30 ft - (PID=0)	
-5									

SS = Splitspoon
▽ = Water Level Encountered During Drilling
▼ = Water Level After Well Development
LL = Liquid Limit
PL = Plastic Limit

HUNTER/ESE

Hunter AAF, Fire Training Area
Fort Stewart, GA

Log of Boring No. HMW-05

Client:	U.S. Army Corps of Engineers	Boring Started:	2/11/90
Project Number:	3902018	Boring Completed:	2/11/90
Drilling Contractor:	Layne Environmental, Inc.	Boring Diameter:	10 inch
Driller:	M. Barton	Well Casing Diameter	2 inch
Logged By:	T. Trent	Surface Elevation:	28.8 ft
Drilling Method:	Hollow-Stem Auger	Elevation Datum:	NGVD
Boring Location:	N734495.13 E816073.98	Type of Drill Rig:	Mobile B-57

Elevation	Depth	Samp. Type and Diam.	Samp. Adv. Len Core	Sample Rec. Core Rec.	Sample Blows "N" % Core Recovery	Well Construction	Lithology	MATERIAL DESCRIPTION	Moisture Content Percent (20 40 60 80) / PL LL (20 40 60 80)
		SS	1.5	1.5	2-2-7			(SP) SAND, poorly graded, fine to medium grained, gray, loose, saturated (PID=0)	
-10	40	SS	1.5	1.1	3-5-9			40 ft - medium dense (PID=0)	
-15	45	SS	1.5		3-3-5			45 ft - loose (PID=0)	
-20	50							BORING TERMINATED AT 50.0 FT BGS	

SS = Splitspoon
▽ = Water Level Encountered During Drilling
▼ = Water Level After Well Development
LL = Liquid Limit
PL = Plastic Limit

HUNTER/ESE

AAAP 10-4-85

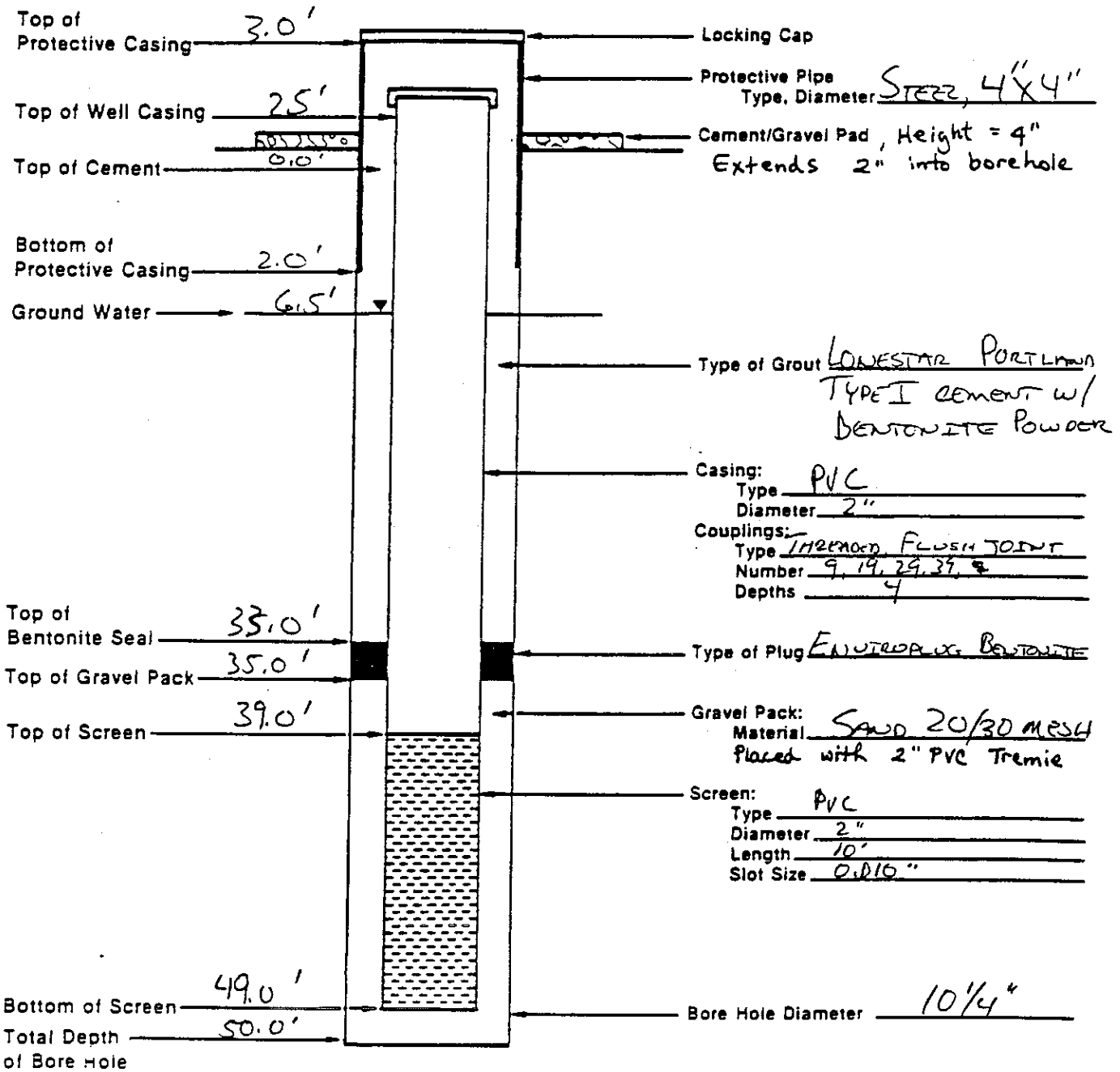
MONITOR WELL CONSTRUCTION

Logged By: I. TRENT
Drilling Contractor: LAYNE ENVIRONMENTAL
Driller's Name: MARK BARTON
Well Number: H MW-5

Client: ARMY CORPS OF ENGINEERS
Location: FT. STEWART - HUNTER AAF
Job Number: 3902018
Date/Time: Start 2-11-90/1530 Finish 2-11-90/1800

Comments (Lost circulation interval, Water level changes, Hole collapse interval, etc.):
Complete Grout : 1800, 2-11
Begin Well Development : 0950, 2-13
Elapsed Time : 39.8 hr.
Method of Development : Pumping
Total Volume of Water Extracted : 220 gal.

Depths in Reference to Ground Level



NOT TO SCALE

Hunter AAF, Fire Training Area
Fort Stewart, GA

Log of Boring No. HMW-06

Sheet No. 1 of 1

Client:	U.S. Army Corps of Engineers	Boring Started:	2/12/90
Project Number:	3902018	Boring Completed:	2/12/90
Drilling Contractor:	Layne Environmental, Inc.	Boring Diameter:	10 inch
Driller:	M. Barton	Well Casing Diameter:	2 inch
Logged By:	T. Trent	Surface Elevation:	28.3 ft
Drilling Method:	Hollow-Stem Auger	Elevation Datum:	NGVD
Boring Location:	N734497.93 E816067.08	Type of Drill Rig:	Mobile B-57

Elevation	Depth	Samp. Type and Diam.	Samp. Adv. / Len Core	Sample Rec. / Core Rec.	Sample Blows "N" / % Core Recovery	Well Construction	Lithology	MATERIAL DESCRIPTION	Moisture Content Percent (20 40 60 80) / PL | LL (20 40 60 80)
25	5							NO SAMPLES COLLECTED	
20	10								
15	15							BORING TERMINATED AT 15.0 FT BGS	

SS = Splitspoon
▽ = Water Level Encountered During Drilling
▼ = Water Level After Well Development
LL = Liquid Limit
PL = Plastic Limit

HUNTER/ESE

AAAP 10/4/85

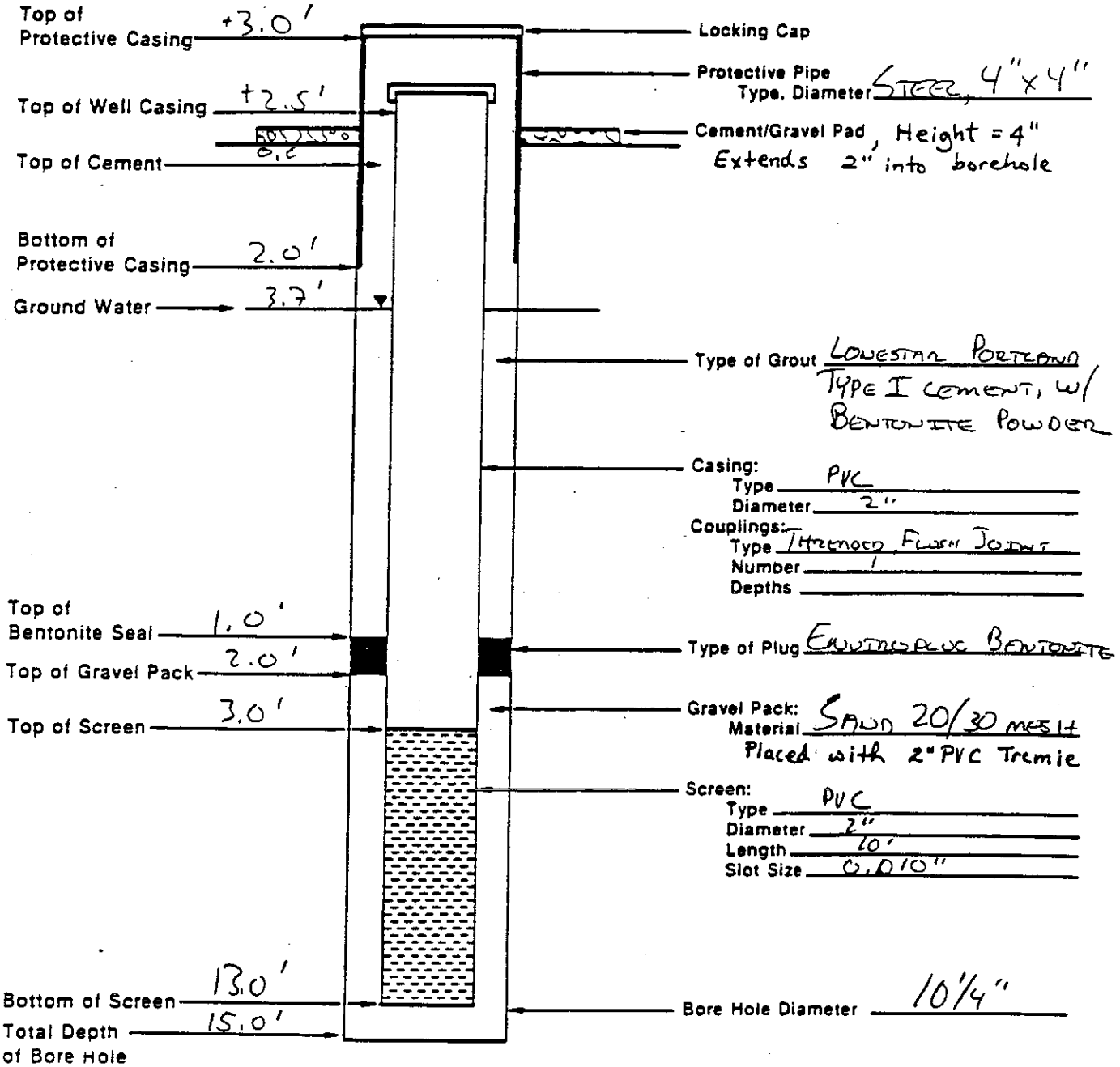
MONITOR WELL CONSTRUCTION

Logged By: J. TRENT
Drilling Contractor: LATNE ENVIRONMENTAL
Driller's Name: MARK BARTON
Well Number: A MW-6

Client: ARMY CORPS OF ENGINEERS
Location: FT. STEWART - HUNTER AAF
Job Number: 3902018
Date/Time: Start 2-12-90/1315 Finish 2-12-90/1415

Comments (Lost circulation interval, Water level changes, Hole collapse interval, etc.):
Complete Grout : 1415, 2-12
Begin Development: 0915, 2-13
Elapsed Time : 19.0 hr.
Method of Development : Pumping
Total Volume of Water Extracted : 85 gal.

Depths in Reference to Ground Level



NOT TO SCALE

Hunter Army Airfield Fort Stewart, Savannah, GA	**Log of Boring No. HMW-7**	Sheet No. 1 of 1

Client:	US Army Corps of Engineers, Kansas City Division	Boring Started:	3/4/92
Project Number:	3912015G	Boring Completed:	3/4/92
Drilling Contractor:	Layne Environmental Services	Boring Diameter:	8 inch
Driller:	D. Nichols	Well Casing Diameter:	2 inch
Logged By:	G. Foster	Type of Drill Rig:	Mobile B-57
Location:		Drilling Method:	Hollow Stem Auger

Elevation	Depth	Samp Type	Samp Rec ft	PID ppm	Blows Per 6"	Well Construction	Lithology	MATERIAL DESCRIPTION	Dynamic Pentration Resistance Blows/ft × 8 16 24 32 / PID (ppm) □ 100 200 300 400
								(SM) SAND, silty, fine-grained, dark brown, moist	
	5	CS	5.0	8				4 ft - becomes orangish-yellow, wet	
	10	CS	5.0	0					
								(SM-ML) SAND AND SILT, intermixed silty sand and sandy silt, fine-grained sand, bluish-gray, wet, micaceous	
								BORING TERMINATED AT 14 FT BGS	

WELL CONSTRUCTION DETAILS
Well stickup from surface to 2.0 ft AGS
Volclay grout interval from surface to 1.5 ft BGS
Sand filter pack from 1.5 to 14.0 ft BGS
Well screen interval from 3.0 to 13.0 ft BGS
Pipe and well screen material = Sch 40 PVC
Pipe and well screen diameter = 2 inch
Well screen slot size = 0.010 inch

SS = Splitspoon CS = CMS Continous Sampler PID = Photoionization Detector (HNu)

Hunter Army Airfield Fort Stewart, Savannah, GA	Log of Boring No. HMW-8	Sheet No. 1 of 1

Client:	US Army Corps of Engineers, Kansas City Division	Boring Started:	3/3/92
Project Number:	3912015G	Boring Completed:	3/3/92
Drilling Contractor:	Layne Environmental Services	Boring Diameter:	8 inch
Driller:	D. Nichols	Well Casing Diameter:	2 inch
Logged By:	G. Foster	Type of Drill Rig:	Mobile B-57
Location:		Drilling Method:	Hollow Stem Auger

Elevation	Depth	Samp Type	Samp Rec ft	PID ppm	Blows Per 6"	Well Construction	Lithology	MATERIAL DESCRIPTION	Dynamic Pentration Resistance Blows/ft × 8 16 24 32 / PID (ppm) □ 100 200 300 400
		CS	4.1	3				(SM) SAND, silty, dark brown, fine-grained, moist	
	5							4 to 5 ft - becomes tan mottled with gray	
		CS	3.9	0				5 ft - becomes fine- to medium-grained, light to medium gray, wet	
	10	CS	3.5	0					
	15							(SM-ML) SAND-SILT, intermixed silty sand and sandy silt, fine-grained sand, greenish-gray, wet, micaceous	
								BORING TERMINATED AT 15 FT BGS	

WELL CONSTRUCTION DETAILS
Well stickup from surface to 2.0 ft AGS
Volclay grout interval from surface to 1.5 ft BGS
Sand filter pack from 1.5 to 15.0 ft BGS
Well screen interval from 3.0 to 13.0 ft BGS
Pipe and well screen diameter = 2 inch
Pipe and well screen material = Sch 40 PVC
Well screen slot size = 0.010 inch

SS = Splitspoon CS = CMS Continous Sampler PID = Photoionization Detector (HNu)

Hunter Army Airfield Fort Stewart, Savannah, GA	Log of Boring No. HMW-9	Sheet No. 1 of 1

Client:	US Army Corps of Engineers, Kansas City Division	Boring Started:	3/2/92
Project Number:	3912015G	Boring Completed:	3/2/92
Drilling Contractor:	Layne Environmental Services	Boring Diameter:	8 inch
Driller:	D. Nichols	Well Casing Diameter:	2 inch
Logged By:	G. Foster	Type of Drill Rig:	Mobile B-57
Location:		Drilling Method:	Hollow Stem Auger

Elevation	Depth	Samp Type	Samp Rec ft	PID ppm	Blows Per 6"	Well Construction	Lithology	MATERIAL DESCRIPTION	Dynamic Pentration Resistance Blows/ft × (8, 16, 24, 32) / PID (ppm) □ (100, 200, 300, 400)
		CS	2.2	15				(SM) SAND, silty, medium-brown becoming dark brown with depth, fine-grained, moist	
	5	CS	3.0	50				4 ft - grades to medium gray	
		SS			1-1 2-3			9 to 10 ft - wood in sample interval	
	10	SS	2.0	175	1-4 5-6			10 ft - becomes brown to orangish-brown, wet	
		SS	2.0	125	6-11 29-14				
	15							BORING TERMINATED AT 15 FT BGS	

WELL CONSTRUCTION DETAILS
Well stickup from surface to 2.5 ft AGS
Voiclay grout interval from 2.5 to 3.0 ft BGS
Sand filter pack from 3.0 to 15.0 ft BGS
Well screen interval from 5.0 to 15.0 ft BGS
Pipe and well screen diameter = 2 inch Pipe and well screen material = Sch 40 PVC
Well screen slot size = 0.010 inch

SS = Splitspoon CS = CMS Continous Sampler PID = Photoionization Detector (HNu)

HTW DRILLING LOG

HOLE No. FTASB-01

1. COMPANY NAME: LAW Engineering & Environmental	2. DRILLING SUBCONTRACTOR: hand auger
SHEET 1 OF 2 SHEETS	
3. PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA
5. NAME OF DRILLER: N/A	6. MANUFACTURER'S DESIGNATION OF DRILL
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3½ inch stainless steal hand auger	9. HOLE LOCATION (SITE): Fire training area
	10. SURFACE ELEVATION
8. WEATHER: Sunny; very hot; slight breeze	11. DATE STARTED: 08/21/95 13:40 — 12. DATE COMPLETED: 8/21/95 14:20
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 9.9 bgs @ 14:20
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: —
15. TOTAL DEPTH OF HOLE: 16p	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
—	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22 TOTAL CORE RECOVERY%
—	✓	✓	semi VOC	—	—	NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
bore hole	~~—~~ (BW)	—	bent. chips	Heather Laswell

25. CHECKED BY:	26. NAME OF INSPECTOR
JKleyser	Heather A Laswell

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
			Borehole 0 HS 0				
	1.0	SAND, soft, silty, reddish black {2.5YR, 2.5/1} (SM)			A		
	2.0		Borehole 9 HS 7 0		B		fuel odor
	3.0	Same; color change dark reddish grey {2.5 YR 4/1} (SM)					
	4.0		Borehole 13 HS 13				
		Same			C		

MRK FORM JUN 89 55

PROJECT NAME & NO.: Hunter Army Airfield 11-3551-0320

HOLE No. FTASB-01

HF — Rev. 5/94

HTW DRILLING LOG

HOLE No. FTASB-01

PROJECT Hunter AAF | INSPECTOR H. Laswell | SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0	same, soft, weak red {2.5YR 5/2} (SM)					
	6.0		HS 50		D		
	7.0	same, oil-like substance on auger					
	8.0		HS 60		E		fuel odor
	9.0						
▽	10.0	wet					
		Boring terminated at 10.0 ft bgs					

MRK FORM JUN 89 55-2 | PROJECT NAME & NO. Hunter Army Airfield 11-3551-0390 | HOLE No. FTASB-01 HF — Rev. 5/9

HTW DRILLING LOG

HOLE No. FTASB-02

1. COMPANY NAME: LAW Engineering & Environmental	2. DRILLING SUBCONTRACTOR: hand auger
3. PROJECT: Hunter Army Airfield - Fire Training Area	4. LOCATION (CITY, STATE): Savannah GA
5. NAME OF DRILLER: NA	6. MANUFACTURER'S DESIGNATION OF DRILL: NA
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3½ in stainless steel hand auger	9. HOLE LOCATION (SITE): Fire Training Area
	10. SURFACE ELEVATION:
8. WEATHER: sunny; bright, very hot	11. DATE STARTED: 8/21/95 14:50 — 12. DATE COMPLETED: 8/21/95 15:01
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: NA
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA
15. TOTAL DEPTH OF HOLE: 3.0 ft bgs	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
—	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY%
—	✓	✓	Semi VOC	—	—	NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
bore hole	✓			Heather Laswell

25. CHECKED BY:	26. NAME OF INSPECTOR
J Kemper	Heather A Laswell

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		topsoil					
	1.0	SAND, silty, soft, brown {10YR 5/3} (SM)	HS ND		A		fuel odor
	2.0	same, reddish black {2.5YR 2.5/1} greenish grey {5GY 7/1} discoloration {5B 2.5/1} black (SM)	Hole 30 HS 60		B		fuel odor
	3.0						
	4.0	concrete pad 40 → 24 ft FTASB-02					
		ROAD					

MRK FORM JUN 89 55

PROJECT NAME & NO.: Hunter Army Airfield 11-3531-0330

HOLE No. FTASB-02

HF — Rev. 5/94

HTW DRILLING LOG

HOLE No. FTASB-03

1. COMPANY NAME: AW Engineering & Environmental	2. DRILLING SUBCONTRACTOR: hand auger	SHEET 1 OF 1 SHEETS
3. PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA	
5. NAME OF DRILLER: NA	6. MANUFACTURER'S DESIGNATION OF DRILL: NA ~~Fire Training Area~~	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3½ in stainless steel hand auger	9. HOLE LOCATION (SITE): Fire Training Area	
	10. SURFACE ELEVATION	
8. WEATHER: sunny, hot, bright	11. DATE STARTED: 8/81/95 15:10	12. DATE COMPLETED: 8/81/95 15:30
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: NA	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
15. TOTAL DEPTH OF HOLE: 30	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
—	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22 TOTAL CORE RECOVERY%
—	✓	✓	Semi VOC	—	—	NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
borehole	✓	←	—	Heather Laswell

25. CHECKED BY: Joni Kerger

26. NAME OF INSPECTOR: Heather A. Laswell

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	1.0	SAND, dry, lty, soft, weak reac. ⊄2.5YR 5/3 (SM)	Borehole 25 HS 0		A		fuel odor
	2.0	SAME	Borehole 25 HS 60		B		
	3.0						
	4.0	concrete pad 40	69 ft	FTASB-03			

MRK FORM JUN 89 55

PROJECT NAME & NO.: Hunter Army Airfield 11.3551.0300

HOLE No. FTASB-03

HF — Rev. 5/94

HTW DRILLING LOG

HOLE No. FTASB-04

1. COMPANY NAME (AW) Engineering & Environmental	2. DRILLING SUBCONTRACTOR hand auger
3. PROJECT Hunter Army Airfield	4. LOCATION (CITY, STATE) Savannah GA
5. NAME OF DRILLER NA	6. MANUFACTURER'S DESIGNATION OF DRILL
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 3½ in stainless steel hand auger	9. HOLE LOCATION (SITE) Fire Training Area
	10. SURFACE ELEVATION
8. WEATHER bright, sunny, hot, breezy	11. DATE STARTED 8/22/95 07:40 — 12. DATE COMPLETED 8/22/95 0850
13. OVERBURDEN THICKNESS NA	16. DEPTH GROUNDWATER ENCOUNTERED NA
14. DEPTH DRILLED INTO ROCK NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED NA
15. TOTAL DEPTH OF HOLE 10.5 ft bgs	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
—	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY%
VOA B 6	✓	✓	Semi VOC	—	—	NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
borehole	✓	—	—	Heather A. Laswell

25. CHECKED BY:	26. NAME OF INSPECTOR
Joni Kemp	Heather A. Laswell

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	0						
	1.0	SAND, silty, soft, dark reddish brown 5YR 3/2 (SM)	HS 0.0		A		
			Borehole 0.0				
	2.0	SAND, silty, soft, yellow 10YR 7/6 (SM)	Borehole 0 HS 0.0		B		
	3.0	SAME					
	4.0	SAME	Borehole 0 HS 0.0		C		

MRK FORM JUN 89 55

PROJECT NAME & NO. Hunter Army Airfield 11-3551-0320

HOLE No FTASB-04

HF — Rev. 5/94

HTW DRILLING LOG

FTASB-04

PROJECT: Hunter AAF | INSPECTOR: H. Laswell | SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0	SAME; color change yellowish red {5YR 5/8}					
	6.0	SAME, very pale brown, {10YR 7/4} (SM)	Borehole 00 HS 0.0		D		
	7.0	SAME					
	8.0		Borehole 0.0 HS 0.0		E		
	9.0	SAME, color change, greyish brown {10YR 5/2}, damp					
	10.0		Borehole 0 HS 0		F		
		Boring terminated at 10.5 ft bgs					
		concrete pad; 10ft; 6ft; 47.5ft; FTASB03; FTASB04; N					
		ROAD					

MRK FORM JUN 89 55-2 | PROJECT NAME & NO: Hunter Army Airfield 11-3551-0320 | HOLE No. FTASB-04 | HF — Rev. 5

HTW DRILLING LOG

HOLE No. FTASB-05

1. COMPANY NAME: LAW Engineering & Environmental	2. DRILLING SUBCONTRACTOR: hand auger	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA	
5. NAME OF DRILLER: NA	6. MANUFACTURER'S DESIGNATION OF DRILL	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3½ in stainless steel hand auger	9. HOLE LOCATION (SITE): Fire Training Area 10. SURFACE ELEVATION	
8. WEATHER: Sunny, hot, breezy	11. DATE STARTED: 8/22/95 0900	12. DATE COMPLETED: 8/22/95 1008
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: NA	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
15. TOTAL DEPTH OF HOLE: 10.0 ft bgs	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
—	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY%
—	✓	✓	semi VOC	—	—	NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
Borehole	✓			Heather A. Laswell

25. CHECKED BY: JKemper

26. NAME OF INSPECTOR: Heather A. Laswell

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	0	SAND, silty, soft dusky red {2.5YR 4/2} (SM)	BZ 0 HS 0		A		
	1.0						
	2.0	SAME	BZ 0 HS 0		B		
	3.0	Color change light brown {7.5YR 6/4}					
	4.0		BZ 0 HS 0		C		

MRK FORM JUN 89 55

PROJECT NAME & NO.: Hunter Army Airfield 11-3551-0320

HOLE No. FTASB-05

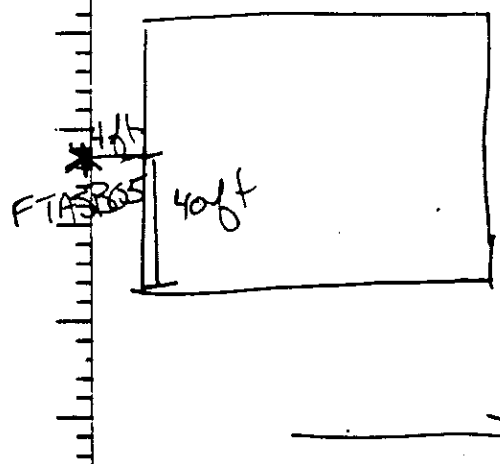
HF — Rev. 5/94

HTW DRILLING LOG

HOLE No. F7ASB-05

PROJECT Hunter AAF | INSPECTOR | SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0	SAME					slight fuel odor
	6.0	SAME, ~~sample~~	HS 70		D		fuel odor
	7.0	SAME some blocky stiving					
	8.0						
	9.0	SAME	HS 60		E		
	10.0	Boring terminated at 10ft bgs					



Road

MRK FORM JUN 89 55-2

PROJECT NAME & NO Hunter - Army Airfield 11-3551-0320

HOLE No. F7ASB-05

HF — Rev. 5/9

HTW DRILLING LOG

HOLE No. FTASB06

1. COMPANY NAME: (AW Engineering & Environmental	2. DRILLING SUBCONTRACTOR: hand auger
3. PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA
5. NAME OF DRILLER: NA	6. MANUFACTURER'S DESIGNATION OF DRILL: NA
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3½ in stainless steel hand auger	9. HOLE LOCATION (SITE): Fire Training Area
	10. SURFACE ELEVATION
8. WEATHER: Sunny hot breezy	11. DATE STARTED: 8/22/95 1015 — 12. DATE COMPLETED: 8/22/95 1243
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 9 ft bgs @ 1243 8/22/95
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA
15. TOTAL DEPTH OF HOLE: 10.0 ft bgs	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
~~5~~ NA	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22 TOTAL CORE RECOVERY%
5	✓	✓	SemiVOC	—	—	NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
borehole	✓	—	—	Heather A. Laswell

25. CHECKED BY: Joni Keyser

26. NAME OF INSPECTOR: Heather A. Laswell

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	1.0	SAND, silty, dry, weak red 2.5YR 5/3 (SM)	HS 0		A		
	2.0	SAME			B		
	3.0		BZ 0 HS 0				
	4.0	Color change reddish yellow 7.5YR 7/6 (SM)					
			HS 0		C		

MRK FORM JUN 89 55

PROJECT NAME & NO.: ~~Hunter~~ Hunter Army Airfield 11-3551-0320

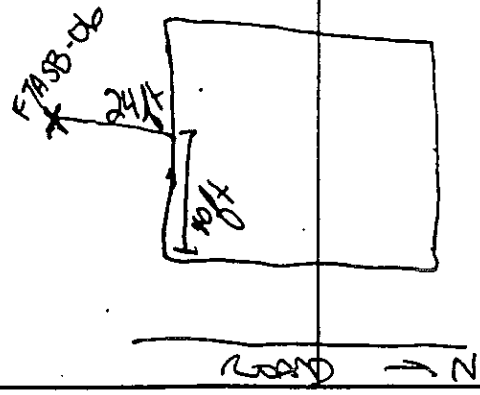
HOLE No. FTASB-06 HF Rev. 5/94

HTW DRILLING LOG

HOLE No. FTASB-06

PROJECT: Hunter AAF | INSPECTOR: H Caswell | SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0	same	BZ 0				
	6.0		HS 0		D		
	7.0	same, color change, light brown {7.5YR 6/3}					
	8.0	color change, black & brown {7.5YR 4/3}	BZ 0 HS <1		E		
▽	9.0	wet					
	10.0	boring terminated 10.0 ft bgs					



MRK FORM JUN 89 55-2 | PROJECT NAME & NO. Hunter Army Airfield | HOLE No. FTASB-06 | HF — Rev. 5/5

41-3551-0320

HTW DRILLING LOG

HOLE No. FTASB07

1. COMPANY NAME: LAW Engineering & Environmental	2. DRILLING SUBCONTRACTOR: hand auger	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA	
5. NAME OF DRILLER: NA	6. MANUFACTURER'S DESIGNATION OF DRILL: NA	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3" in stainless steel hand auger	9. HOLE LOCATION (SITE): Fire Training Area	
	10. SURFACE ELEVATION	
8. WEATHER: Sunny, hot, breezy	11. DATE STARTED: 8/22/95 1330	12. DATE COMPLETED: 8/22/95 1403
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 9.7 @ 1403	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
15. TOTAL DEPTH OF HOLE: 10.0	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES: NA
—			

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22 TOTAL CORE RECOVERY%
—	✓	✓	SemiVOC			NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
borehole	✓	—	—	Heather Laswell

25. CHECKED BY:	26. NAME OF INSPECTOR
Joni Keyser	Heather A. Laswell

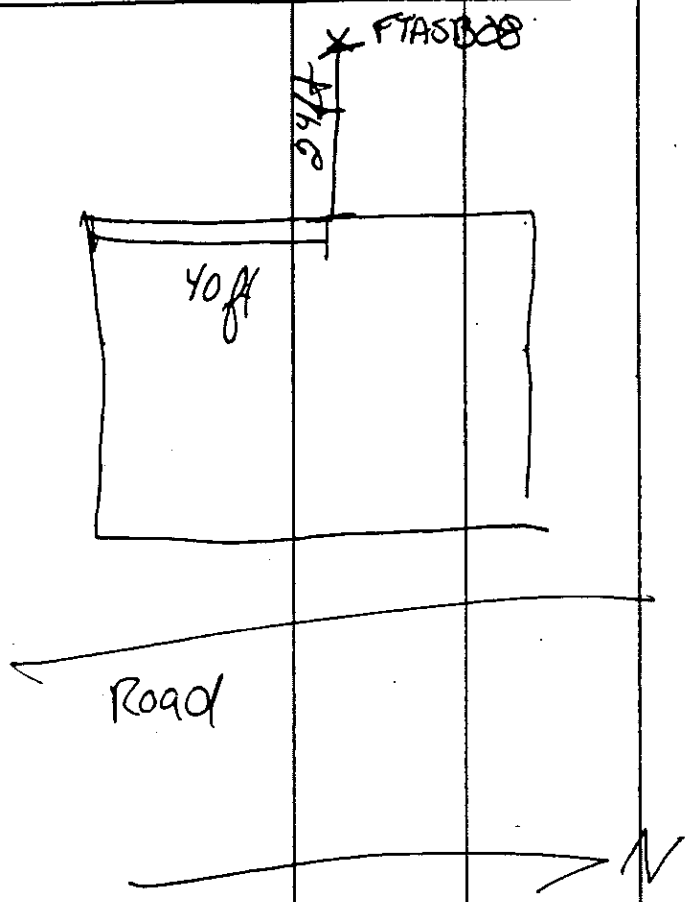
ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	1.0	SAND, silty, soft, dark reddish brown 5YR 3/3 (SM)	BZ 0 HS 0		A		
	2.0	SAME	Borehole ID HS 16		B		slight fuel odor
	4.0	SAME	HS 50		C		

HTW DRILLING LOG

FTASB08

PROJECT: Hunter AAF | INSPECTOR: H Loewe II | SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h



MRK FORM JUN 89 55-2

PROJECT NAME & NO: Hunter Army Airfield 11-3551-0320

HOLE No. FTASB-08

HF — Rev. 5/

HTW DRILLING LOG

HOLE No. FTASB-09

1. COMPANY NAME: CH2M Engineering & Environmental	2. DRILLING SUBCONTRACTOR: NA	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA	
5. NAME OF DRILLER: NA	6. MANUFACTURER'S DESIGNATION OF DRILL: NA	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3½ in Stainless steel hand auger	9. HOLE LOCATION (SITE): Fire training Area	
	10. SURFACE ELEVATION	
8. WEATHER: Sunny hot, breezy	11. DATE STARTED: 8/22/95 1432	12. DATE COMPLETED: 8/22/95 1455
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 7.2 ft bgs @ 1455	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
15. TOTAL DEPTH OF HOLE: 7.3 ft bgs	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
—	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY%
2	✓	✓	semi voc	—	—	NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
bore hole	✓	—	—	Heather A Lasvell

25. CHECKED BY:	26. NAME OF INSPECTOR
J Kemp	Heather A Lasvell

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	1.0	SAND, silty, soft, yellowish brown (10YR 5/6) (SM)	HS 0.0		A		
	2.0	color change very dark grey (7.5YR 3/1)	HS 0.0		B		
	3.0						
	4.0	Same ~~dry~~ moist	Borehole OK				
			HS 0.0		C		

MRK FORM JUN 89 55

PROJECT NAME & NO.: Hunter Army Airfield 11-3551-0330

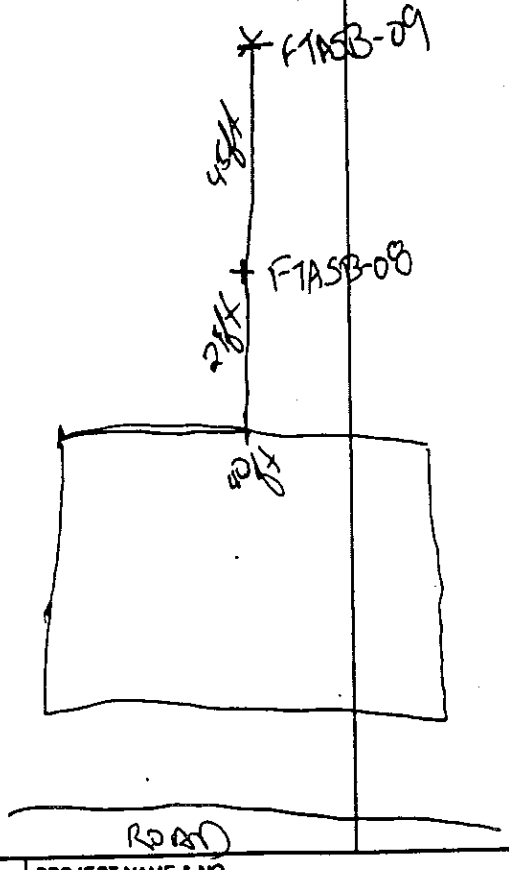
HOLE No. FTASB-09 Rev. 5/94

HTW DRILLING LOG

F7ASB-09

PROJECT: Hunter AAF | INSPECTOR: HCaswell | SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0	same					
	6.0	same, few wood pieces	HS 0.0		D		
	7.0	wet					
		Boring terminated at 7.3					



MRK FORM JUN 89 55-2

PROJECT NAME & NO: Hunter Army Airfield 11-3651-0320

HOLE No. F7ASB-09

HF — Rev. 5/5

HTW DRILLING LOG

HOLE No. FTA-SB-10

1. COMPANY NAME: Law Engineering & Environmental	2. DRILLING SUBCONTRACTOR: hand auger	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA	
5. NAME OF DRILLER: NA	6. MANUFACTURER'S DESIGNATION OF DRILL: NA	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3½ in stainless steel hand auger	9. HOLE LOCATION (SITE): Fire training area	
	10. SURFACE ELEVATION	
8. WEATHER: sunny, hot, breezy	11. DATE STARTED: 8/22/95 0815	12. DATE COMPLETED: 8/29/95 1550
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 10.4 @ ~~1548~~ 1548	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
15. TOTAL DEPTH OF HOLE: 10.4ft	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
—	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22 TOTAL CORE RECOVERY%
—	—	—	—	—	—	NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
borehole	✓	—	—	Heather A Laswell

25. CHECKED BY: JKemper

26. NAME OF INSPECTOR: Heather A Laswell

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	1.0	Sand, silty, soft dark reddish gray 5YR 3/3 (SM)	HS 0		A		fuel odor
	2.0				B		
	3.0	SAME	HS 50				
	4.0		HS 35		C		

MRK FORM JUN 89 55

PROJECT NAME & NO.: Hunter Army Airfield 11-3551-0320

HOLE No. FTASB-10

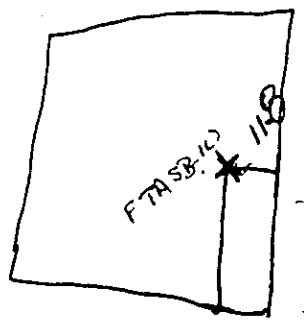
HF — Rev. 5/94

HTW DRILLING LOG

FTA SB-10

PROJECT: Hunter AAF | INSPECTOR: H. Casmell | SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0						
	6.0	SAME					
	7.0		HS 60		D		
	8.0						
	9.0	SAME	HS 40		E		
	10.		HS 70		F		
		Wet					
		Boring terminated at 10.4ft bgs					



the location of FTASB-10 is also the location for FTA-SB-2

MRK FORM 55-2 JUN 89 | PROJECT NAME & NO. Hunter Army Airfield 11-3551-0320 | HOLE No. FTASB-10

HF — Rev. 5/

HTW DRILLING LOG

HOLE NO. FTASB-11

SHEET 1 OF 2 SHEETS

1. COMPANY NAME	2. DRILLING SUBCONTRACTOR hand auger ~~NA~~
3. PROJECT Hunter Army Airfield	4. LOCATION (CITY, STATE) Savannah GA
5. NAME OF DRILLER NA	6. MANUFACTURER'S DESIGNATION OF DRILL NA
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 3½ in stainless steel hand augers	9. HOLE LOCATION (SITE) Fire training area
	10. SURFACE ELEVATION
8. WEATHER wet rainy	11. DATE STARTED 8/23/95 0730 — 12. DATE COMPLETED 8/23/95 0755
13. OVERBURDEN THICKNESS NA	16. DEPTH GROUNDWATER ENCOUNTERED 9.54 bgs @ 752
14. DEPTH DRILLED INTO ROCK NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED NA
15. TOTAL DEPTH OF HOLE 10.0 ft bgs	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
—	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22 TOTAL CORE RECOVERY%
—	—	—	—	—	—	NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
borehole	—	—	bent chips	Heather Laswell

25. CHECKED BY:	26. NAME OF INSPECTOR
	Heather A Laswell

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	1.0	SAND, silty, soft light yellowish brown 2.5Y 6/3 (SM)	HSO		A		
	2.0		HSO		B		
	3.0	SAME					
	4.0	same	HS 5		C		

MRK FORM JUN 89 55

PROJECT NAME & NO. Hunter Army Airfield 11-3551-0320

HOLE No FTASB-11

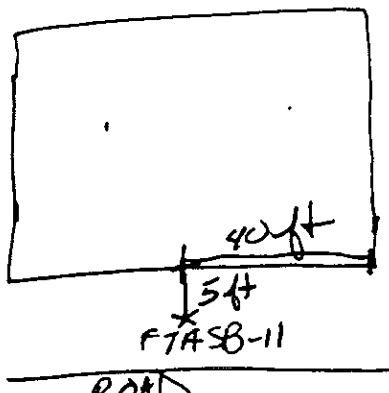
HF — Rev. 5/94

HTW DRILLING LOG

FTA58-11

PROJECT: Hunter AAF | INSPECTOR: H. Caswell | SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	3.0	same					
	6.0	SAND, clayey, brownish gray 2.5Y 5/3 (SC)					
		SAND, silty, very pale brown 10YR 7/3 (SM)	HS 2		D		fuel odor
	8.0	same					
			HS 10		E		fuel odor
	9.0						
▽		same, wet	HS 20		F		
	10.0	Boring terminated at 10 ft bgs					



MRK FORM JUN 89 55-2 | PROJECT NAME & NO: Hunter Army Airfield 11-3551-0320 | HOLE No. FTASB-11 | HF — Rev. 5/

HTW DRILLING LOG

HOLE No. FTA SB-12

1. COMPANY NAME: CAW Engineering & Environmental	2. DRILLING SUBCONTRACTOR: hand auger	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA	
5. NAME OF DRILLER: NA	6. MANUFACTURER'S DESIGNATION OF DRILL: NA	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3½ in stainless steel hand auger	9. HOLE LOCATION (SITE): Firetraining Area	
	10. SURFACE ELEVATION	
8. WEATHER: wet, rainy	11. DATE STARTED: 8/23/95 0818	12. DATE COMPLETED: 8/23/95 0858
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: NA	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
15. TOTAL DEPTH OF HOLE	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
—	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY%
2	✓	✓	semi VOC	—	—	NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
borehole	—	—	bat chips	Heather A Laswell

25. CHECKED BY:	26. NAME OF INSPECTOR
JReeper	Heather A Laswell

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	1.0	SAND, silty, soft, dusky red {2.5YR 4/2} HS 15 (SM)			A		
	2.0	SAME					
			HS 10		B		
	3.0	SAME					
	4.0						
			HS 10		C		

MRK FORM JUN 89 55

PROJECT NAME & NO.: Hunter Army Airfield 11-3551-0320

HOLE No. FTA SB-12

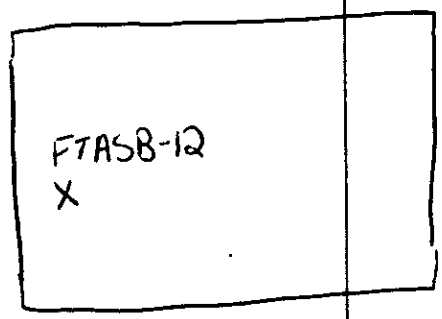
Rev. 5/94

HTW DRILLING LOG

FTASB-12

PROJECT: Hunter Army Airfield | INSPECTOR: H. Laswell | SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0	SAME					
	6.0						
			HS 12		D		
	7.0						
	8.0	SAME					
			HS 11		E		
	9.0						
▽	10.0	wet					
		Boring terminated at 10.0 ft bgs					



The location of FTASB-12 is also the location of FTACO-4

MRK FORM JUN 89 55-2 | PROJECT NAME & NO Hunter Army Airfield 11-3551-0320 | HOLE No FTASB-12 | HF — Rev. 5/

MW DRILLING LOG

FTSB013

1. COMPANY NAME: Law Engineering & Environmental	2. DRILLING SUBCONTRACTOR: NA - Hand Auger	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter ARMY Airfield	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Jim Beaver	6. MANUFACTURER'S DESIGNATION OF DRILL: NA (Hand Auger)	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Hand Auger (3" Stainless steel)	9. HOLE LOCATION (SITE): Directly adjacent to HMW-10 (See attached map)	
	10. SURFACE ELEVATION	
8. WEATHER: 73°F, Breezy (from east)	11. DATE STARTED: 10/3/95	12. DATE COMPLETED: 10/3/95
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 5.0	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: —	
15. TOTAL DEPTH OF HOLE: 5.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
—	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY%
2 (A&B)	✓	✓	TPH	SV		NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
~~Backfilled~~	✓			Jim Beaver

25. CHECKED BY	26. NAME OF INSPECTOR
[illegible]	Jim Beaver

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		Fine to medium SAND with minor fine gravel and silt; black 7.5YR 2.5/1 (SP)	0		A		Submitted for laboratory chemical analysis
	1.0						
	2.0						
		same as above	0		B		Submitted for laboratory chemical analysis
	3.0						
	4.0						
		same as above	0		C		
		Boring Terminated at 5.0 ft.					

MRK FORM JUN 89 55

PROJECT NAME & NO: Hunter Army Airfield, Fire Training Area 4

HOLE No: FTSB013

RF — Rev. 5/94

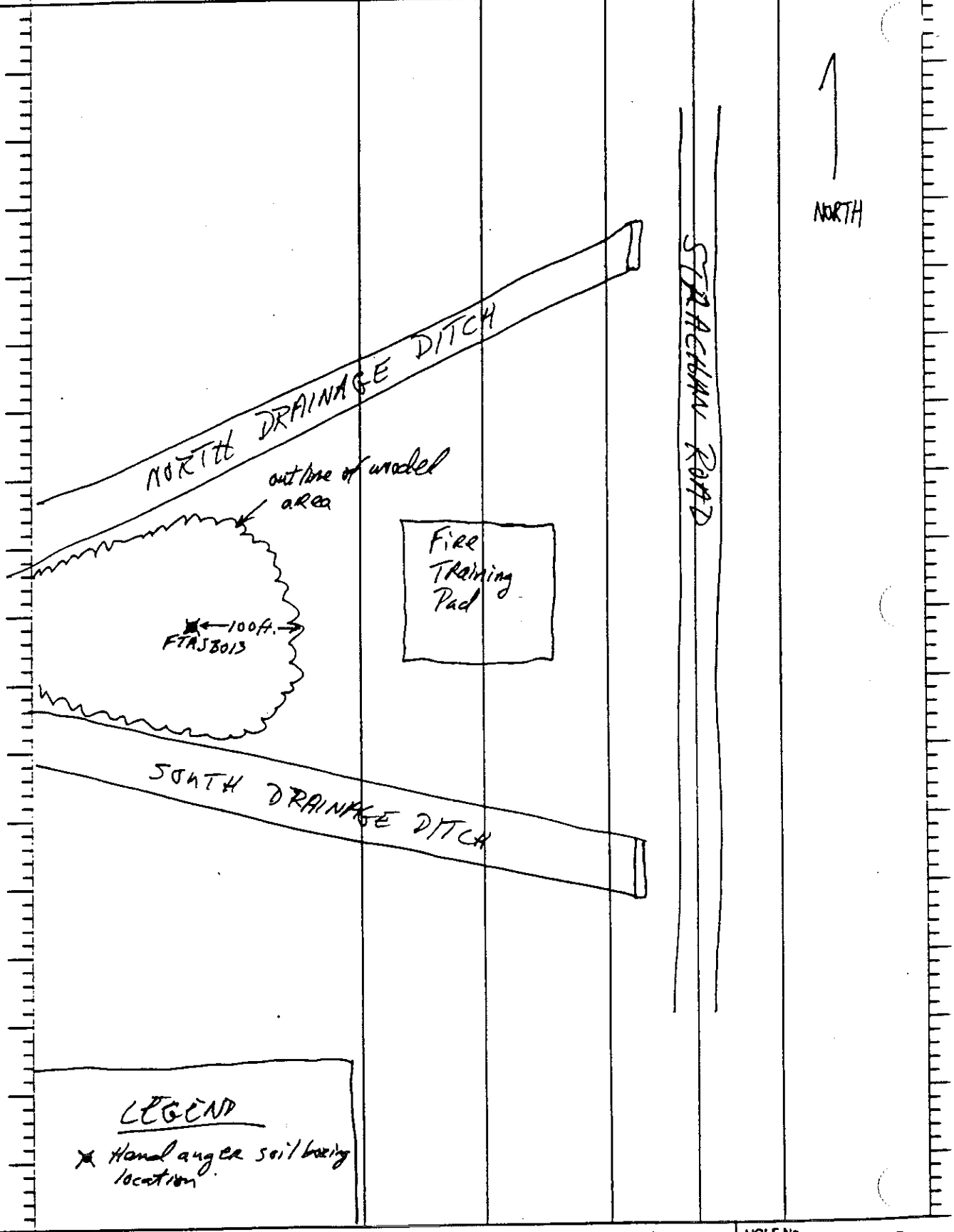
11-3551-0320

RTW DRILLING LOG

FTA5B013

PROJECT	INSPECTOR	SHEET / OF
Hunter Army Airfield	Jim Beaver	SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h



MRK FORM JUN 89 55-2

PROJECT NAME & NO: Hunter Army Airfield 11-3551-0320

HOLE No. FTA5B013

HF — Rev. 5/

HTW DRILLING LOG

HOLE NO. FTASB-14

1 COMPANY NAME: LAW Eng & Env. Services Inc	2. DRILLING SUBCONTRACTOR: hand auger	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA	
5. NAME OF DRILLER: NA	6. MANUFACTURER'S DESIGNATION OF DRILL: NA	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3" stainless steel hand auger	9. HOLE LOCATION (SITE): Fire training Area	
	10. SURFACE ELEVATION	
8. WEATHER: sunny, hot, 86°, wind from S	11. DATE STARTED: 10-04-95 1436	12. DATE COMPLETED: 10-04-95 1512
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 5.5 at 1512	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 6.0	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
NA	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22 TOTAL CORE RECOVERY%
2 (A&C)	✓	✓	TPH ✓	semivocs ✓		NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
	✓			Heather A Caswell

25. CHECKED BY	26. NAME OF INSPECTOR
JKenyon	Heather A Caswell

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	1.0	SAND, fine to med grain, some roots and rocks, brown {7.5YR 4/2} [SP]	HS 0 0		A		
	2.0						
	3.0	SAND, fine to med grain, reddish brown {2.5YR 3/1} [SP]	HS 0 50		B		fuel odor
	4.0	same	HS 7 162		C		fuel odor

MRK FORM 55 JUN 89

PROJECT NAME & NO: Hunter Army Airfield 11-3551-0320

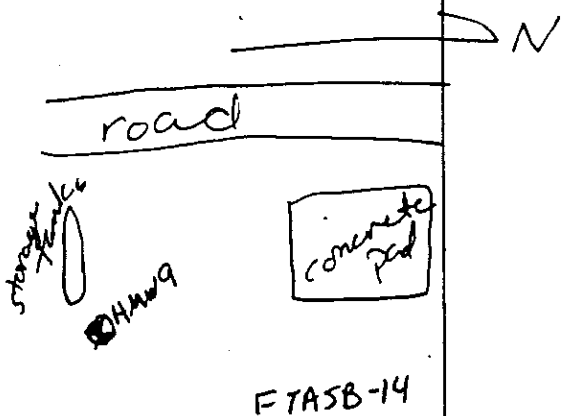
HOLE No: FTASB-14 HF — Rev. 5/94

RTW DRILLING LOG

FTASB 14

PROJECT: Hunter Army Airfield | INSPECTOR: Heather A Laswell | SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0						CW at 55 at 1512
	6.0	Boring terminated					
	7.0						



MRK FORM JUN 89 55-2 | PROJECT NAME & NO: Hunter Army Airfield 11-3551-0320 | HOLE No FTASB-14

HF — Rev. 5/9

MW DRILLING LOG

FTA58-0K5

1 COMPANY NAME: AW Eng. & Env. Services Inc	2. DRILLING SUBCONTRACTOR: hand auger	SHEET 1 OF 2 SHEETS
3 PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA	
5. NAME OF DRILLER: NA	6. MANUFACTURER'S DESIGNATION OF DRILL: NA	
7 SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 8in stainless steel hand auger	9. HOLE LOCATION (SITE): Fire training area	
	10. SURFACE ELEVATION:	
8. WEATHER: Sunny, 85°	11. DATE STARTED: 10-04-95 1334	12. DATE COMPLETED: 10-04-95 1405
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 6.9 at 1415	
14 DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: —	
15. TOTAL DEPTH OF HOLE: 7.0	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
NA	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22 TOTAL CORE RECOVERY%
2 (A&C)	✓	✓	TPH ✓	semi VOCs ✓		NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
	✓			Heather A Laswell

25. CHECKED BY:	26. NAME OF INSPECTOR
[illegible]	Heather A Laswell

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	1.0	SAND, fine to med grain, roots and some rocks, brown {7.5YR 4/3} [SP]	HSO		A		
	2.0						
	3.0	SAME w/ some black {7.5YR 2.5/1} [SP]	HSO		B		
	4.0						
		SAND, silty, light brown [SP] {7.5YR 4/3} very dark gray {7.5YR 3/1}	HSO		C		

MRK FORM JUN 89 55

PROJECT NAME & NO.: Hunter Army Airfield 11-3551-0320

HOLE No: FTA58-K

AF — Rev. 5/94

HTW DRILLING LOG

FTASB-15

PROJECT	INSPECTOR	SHEET
Hunter Army Airfield	Heather A Caswell	2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0						
	6.0						
	7.0	Boring terminated at 7.0 ft bgs					GWat 6.9 at 2:15
	8.0						
		road					
		stage tank					
		13 ft HMW-9 FTASB 15					

MRK FORM JUN 89 55-2

PROJECT NAME & NO: Hunter Army Airfield 11-3551-0320

HOLE No.: FTASB-015 HF Rev. 5/

HTW DRILLING LOG

HOLE NO. FTASB-16

1. COMPANY NAME: LAW Eng. & Env. Services Inc	2. DRILLING SUBCONTRACTOR: hand auger	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA	
5. NAME OF DRILLER: NA	6. MANUFACTURER'S DESIGNATION OF DRILL: NA	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: hand auger (3in stainless steel)	9. HOLE LOCATION (SITE): Fire Training Area	
	10. SURFACE ELEVATION	
8. WEATHER: overcast; 80's, windy winds from SW	11. DATE STARTED: 10-04-95 0948	12. DATE COMPLETED: 10-04-95 1020
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 7.8 at 10:19	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: —	
15. TOTAL DEPTH OF HOLE: 8.1 ft bgs	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
NA	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY%
2 (A & C)	—	✓	TPA ✓	Semi-VOC ✓		NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
	✓			Heather A Lasswell

25. CHECKED BY	26. NAME OF INSPECTOR
JKeyser	Heather A Lasswell

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		Asphalt					fuel odor
	1.0	Sand, silt, fine to med grain dark yellow brown (10YR 4/4) (SP)	HS 30		A		
	2.0	color change to gray (10YR 5/1) (SP)					
	3.0	SAND, fine to med grain, brown (10YR 5/3) (SP)	HS 40		B		
	4.0	SAND, fine to med grain light gray (10YR 7/2) (SP)	HS		C		

MRK FORM 55 JUN 89

PROJECT NAME & NO: Hunter Army Airfield 11-3551-0320

HOLE No: FTASB-16

HF — Rev. 5/94

RTW DRILLING LOG

FTASB-16

PROJECT: Hunter Army Airfield | INSPECTOR: Heather A Laswell | SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0						
	6.0	Sand, silty, fine to med grain yellowish brown 10YR 5/4 to light gray 5Y 10YR 7/1			D		GWat 7.8 at 1019
	8.0	Boring terminated at 8.1					
	9.0						
	10.0						
	11.0						

concrete Pad

34.6 — 24.5

FTASB-16

apron

N

MRK FORM JUN 89 55-2 | PROJECT NAME & NO Hunter Army Airfield | 11-3551-0320 | HOLE No FTASB-16 | HF — Rev. 5/5

HTW DRILLING LOG

FTASB01

1. COMPANY NAME: Law Eng. & Env. Services Inc	2. DRILLING SUBCONTRACTOR: Hand auger	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA	
5. NAME OF DRILLER: NA	6. MANUFACTURER'S DESIGNATION OF DRILL: NA	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: hand auger (3 in Stainless steel)	9. HOLE LOCATION (SITE): Fire Training Area	
	10. SURFACE ELEVATION	
8. WEATHER: overcast, 80's windy from SW	11. DATE STARTED: 10-04-95 1110	12. DATE COMPLETED: 10-04-95 1155
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 6.9 at 1154	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: —	
15. TOTAL DEPTH OF HOLE: 7.8 ft	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
NA	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY%
2 (A & C)	✓	—	TPH ✓	semi VOC ✓		NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
	✓			Heather A Aswell

25. CHECKED BY:	26. NAME OF INSPECTOR
JHeppen	Heather Alaswell

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		SAND, silty, brown, some roots {7.5YR 4/3} [SP]	HS 0		A		
	1.0						
		stone in borehole					1.5 ft of rock
	2.0						
		SAME [SP]	HS 2		B		
	3.0						
	4.0						
		Sand, fine to med [SP] 1.5ft brown {7.5YR 4/3}	HS 0		C		

MRK FORM JUN 89 55

PROJECT NAME & NO: Hunter Army Airfield 11-3551-0320

HOLE No: FTASB-017

HF — Rev. 5/94

RTW DRILLING LOG

FTASB-017

PROJECT: Hunter Army Airfield | INSPECTOR: Heather Laswell | SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0						
	6.0	same, saturated			D HH3		Gw at 6.9 at 1154
▽	7.0						
	8.0	Boring terminated at 7.8ft					

FTASB-017 X 13.5 — HMW5, HMW6

Concrete Pad

road

MRK FORM JUN 89 55-2 | PROJECT NAME & NO Hunter Army Airfield 11-3551-0320 | HOLE No FTASB-017 | HF — Rev. 5/5

HTW DRILLING LOG

HMW 10

1 COMPANY NAME: LAW Eng & Env. Services Inc	2. DRILLING SUBCONTRACTOR: LAW Eng.	SHEET 1 OF 3 SHEETS
3. PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA	
5. NAME OF DRILLER: Russell Murdock	6. MANUFACTURER'S DESIGNATION OF DRILL: CME 55 (ATV)	
7 SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 140 lb hammer; 2in stainless steel split spoon	9. HOLE LOCATION (SITE): Fire Training Area, within treeline	
	10. SURFACE ELEVATION: 27.96'	
8. WEATHER: Sunny, wind from E 78°	11. DATE STARTED: 10-03-95 1230	12. DATE COMPLETED: 10-03-95 1343
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 5.6' 1307	
14 DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: (TOC) 7.36 1550 10/04/95	
15. TOTAL DEPTH OF HOLE: 14 ft	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 5.6 1311 5.5 1318	

19 GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
1 (F)	NA	NA	NA

21 SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22 TOTAL CORE RECOVERY%
2 (AB)	✓	✓	semi-VOC	TPH ✓	—	NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
		✓		Heather A Laswell

25. CHECKED BY:	26. NAME OF INSPECTOR
[signature]	Heather A Laswell

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		SAND, fine to med grain. Some roots, organics dark reddish gray {10R 3/1} [SP]	HS 0		A	3	100% recovery
						3	
	1.0					3	
						4	
	2.0	SAND, fine to med, dusky red {2.5YR 4/3} [SP]	HS 0		B	5	90% recovery
						4	
	3.0					3	
						3	
	4.0	Sand, fine to med, dark reddish brown {5YR 3/2}, wet [SP]	HS 0		C	4	
						2	

MRK FORM JUN 89 55 | PROJECT NAME & NO: Hunter Army Airfield 11-3551-0320 | HOLE No: HMW-10 | HF — Rev. 5/94

HTW DRILLING LOG

HA # 10

PROJECT	INSPECTOR	SHEET
Hunter Army Airfield	Heather A Laswell	2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0					2	
▽						2	GW at 5.6 at 1307
	6.0	Sand fine to med V. dark brown {7.5YR2.5/2} saturated [SP]	HS 0	D		3	100% recovery some wood fragments
						1	
	7.0					1	
						4	
	8.0	same {2.5YR 5/1} gray, saturated [SP]	HS <1	E		5	150% recovery
						3	
	9.0					5	
						2	
	10.0	SAND Fine to med grain, saturated gray {2.5Y 6/1} [SP]	HS <1	F		2	100 recovery
						2	
						2	
	11.0	w/color change to v.dark gray {5YR 3/1} [SP]				6	
	12.0	SAND, gray {2.5Y 5/1} Saturated, fine to med [SP]	HS <1	G		2	100% recovery
						2	
	13.0					2	
						2	
		Boring terminated 14ft bgs	see attached maps				

MRK FORM 55-2 JUN 89

PROJECT NAME & NO Hunter Army Airfield 11-3551-0320

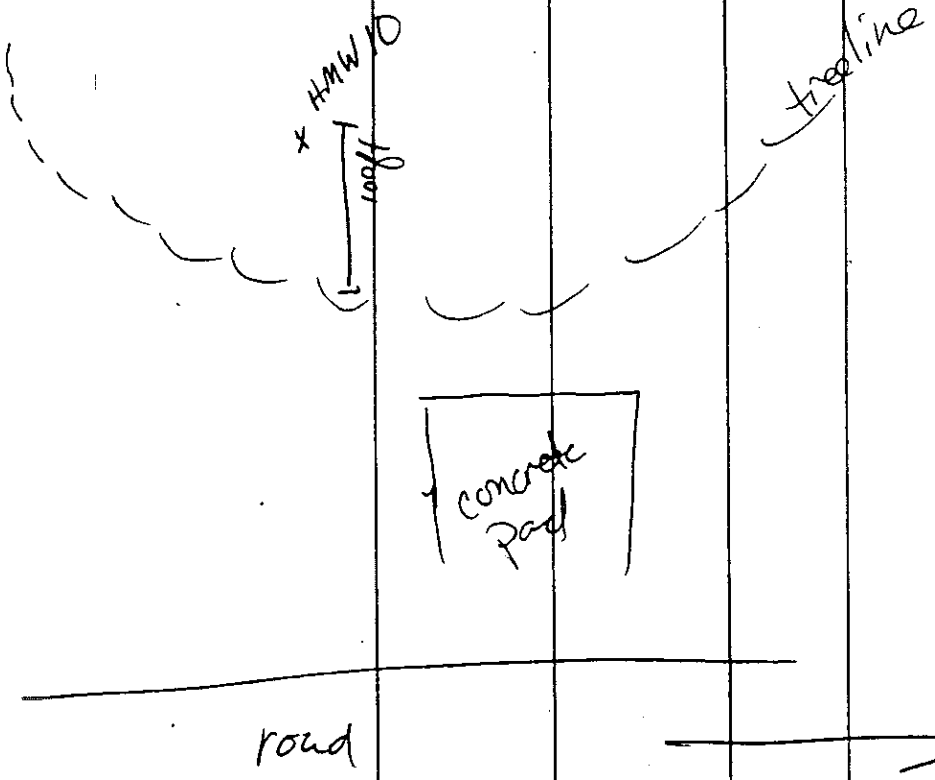
HOLE No HMW-10

HF — Rev. 5/9

RTW DRILLING LOG

PROJECT	INSPECTOR	SHEET / OF
Hunter Army Airfield	Heather Laswell	3 / 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h



MRK FORM JUN 89 55-2

PROJECT NAME & NO: Hunter Army Airfield 11-3551-0320

HOLE No. HMW10

HF — Rev. 5

RTW DRILLING LOG

HMW 11

1 COMPANY NAME: LAW Environmental & Engineering	2. DRILLING SUBCONTRACTOR: LAW Engineering	SHEET 1 OF 3 SHEETS
3. PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA	
5. NAME OF DRILLER: Russell Murdock	6. MANUFACTURER'S DESIGNATION OF DRILL: CME 55 (ATV)	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2in split spoon; 140lb hammer (cathead)	9. HOLE LOCATION (SITE): Fire training area	
	10. SURFACE ELEVATION: 28.82'	
8. WEATHER: Sunny 74°, slight breeze from E	11. DATE STARTED: 10-03-95 0740	12. DATE COMPLETED: 10-03-95 0920
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 8.58 0840	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 10.83 1544 10/04/95	
15. TOTAL DEPTH OF HOLE: 15 ft	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 0904 @ 7.8	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
1 (F)	NA	NA	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY%
2 (B&D)	✓	✓	PPH ✓	semivols	NA	NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
		✓		Heather Laswell

25. CHECKED BY	26. NAME OF INSPECTOR
Kleyser	Heather A Laswell

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		SAND, fine to med grain, yellowish brown (10YR 5/6) Some roots [SP]	HS 0		4A	4	20% recovery
					b	6	
	1.0				~~A~~	7	
						1	
	2.0	SAND, fine to med grain, black (10YR 2/1) [SP]	HS ✗1		B	10	75% recovery
						9	
	3.0					6	
						6	
	4.0	SAND, fine to med grain, sl. silt black (10YR 2/1) [SP]	HS 9		C	4	50% recov
						3	

MRK FORM JUN 89 55

PROJECT NAME & NO: Hunter Army Airfield D-58

HOLE No: HMW11

HF — Rev. 5/94

11-3551-0320

RI/FS DRILLING LOG

HMW 11

PROJECT	INSPECTOR	SHEET
Hunter Army Airfield	Heather Laswell	2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0					3	
						3	
	6.0	SAND, fine to med, silty, black {10YR 2/1} to very pale brown {10YR 7/3}; moist [SP]	HS 9		D	4	90% recovery
						3	
						2	
	7.0					2	
		same, wet					
	8.0	SAND, yellowish brown {10YR 5/4} wet [SP]			E	11	100% recovery
▽						9	GW at 8.58 at 0841
		2in of saturated at 8.5ft bgs					
	9.0					3	
						3	
	10.0	SAND, black {10YR 2/1}		F		8	90% recovery
		do grey {5Y 5/1} wet				5	
		do saturated [SP]					
	11.0					3	
						3	
	12.0	SAME, saturated				9	
				G		7	
	13.0					7	
						9	

MRK FORM JUN 89 55-2

PROJECT NAME & NO: Hunter Army Airfield 11-3551-0320

HOLE No: HMW 11

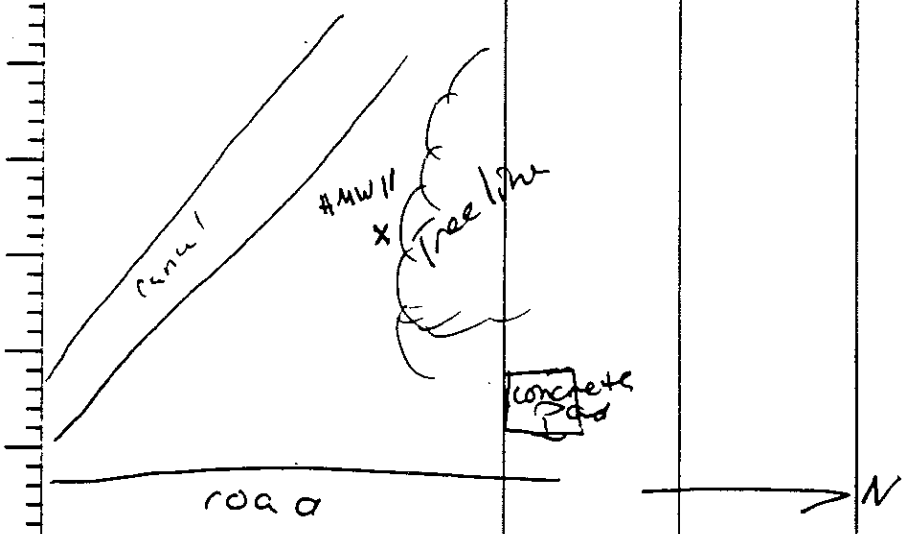
HF — Rev. 5/94

RI W DRILLING LOG

HMW 11

PROJECT	INSPECTOR	SHEET
Hunter Army Airfield	Heather Laswell	3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	14.0	SAND, fine to med grain saturated black 5Y 2.5/1 [SP]		H		2 5	
	15.0	color change to gray 5Y 5/1 [SP]				4 5	
	16.0	sampled to 16 ft bgs augered to 15 ft bgs					



MRK FORM JUN 89 55-2 | PROJECT NAME & NO Hunter Army Airfield 11-3551-0320 | HOLE No HMW11 | HF — Rev. 5/9

RTW DRILLING LOG

HMW-12

1. COMPANY NAME: IT Env. Services, Inc.	2. DRILLING SUBCONTRACTOR: CAW	SHEET 1 OF 3 SHEETS
3. PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA	
5. NAME OF DRILLER: Russell Murdock	6. MANUFACTURER'S DESIGNATION OF DRILL: CME 55 (ATV)	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2in steel split spoon; 140 lb hammer; airhead	9. HOLE LOCATION (SITE): Fire training Area - opposite side of canal	
	10. SURFACE ELEVATION: 29.29'	
8. WEATHER: Sunny; md 80s; breeze from ?	11. DATE STARTED: 10-02-95 1410	12. DATE COMPLETED: 10-02-95 1810
13. OVERBURDEN THICKNESS: N/A	16. DEPTH GROUNDWATER ENCOUNTERED: ~~N/A~~ 727 - 9.2 ft bgs	
14. DEPTH DRILLED INTO ROCK: N/A	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 10-03-95 1700 @ 11.48 ft TOC	
15. TOTAL DEPTH OF HOLE: 16 ft	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 1735 - 9.2 ft bgs	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
1	NA	NA	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22 TOTAL CORE RECOVERY%
2 (BED)	✓	✓	TPH	Semi VOC	NA	NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
		✓		Heather A. Lasure

25. CHECKED BY	26. NAME OF INSPECTOR
glenzer	Heather A. Lasure

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		fine to ~~med~~ SAND; rich in organic; roots; thin nodding or bedding; reddish brown to yellowbrown to black; Reddish black {5YR 2.5/1} [SP]	HS 0		A	6	75% recovery
	1.0					4	
						4	
	2.0	SAND, sl. silty, black [SP] {5YR 2.5/1}	HS X		B	6	50% recovery
	3.0					4	
						4	
	4.0	SAND, fine to med. sl. silt med grade, damp, black {5YR 2.5/1} [SP]	HS 1		C	4	75% recovery
						4	

MRK FORM JUN 89 55

PROJECT NAME & NO: Hunter Army Airfield 11-3551-0320

HOLE No: HMW12

HF — Rev. 5/94

RFW DRILLING LOG

HMW 12

PROJECT	INSPECTOR	SHEET / OF
Hunter Army Airfield	Heather A Caswell	SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0					3	
		Color change to Hgray {5YR 7/1}					
	6.0	SAND, fine to Med grain, black {5YR 2.5/1} [SP]	2		D	4 1 1	20% recovery
	7.0	med grain SAND, moist, black {5YR 2.5/1} & reddish brown {5YR 5/3} [SP] Sl. silty	1		E	1 0 1	60% recovery
	8.0	SAND [SP] black {5YR 2.5/1} & reddish brown {5YR 5/3}	1		F	1 2 3	60% recovery
	9.0	Sand, brownish yellow {10YR 6/6} saturated to moist [SP]		6	F	11 21 24	GWat 9.2 ft @ 1727
	10.0					18	75% recovery
		SAND, fine to med, brownish yellow {10YR 6/6}, wet [SP]		H	G	16 14	
	11.0						
	12.	SAND, light yellowish brown {10YR 6/4} saturated fine to med. grain [SP]		I		4 8 8	100% recovery
	13.						

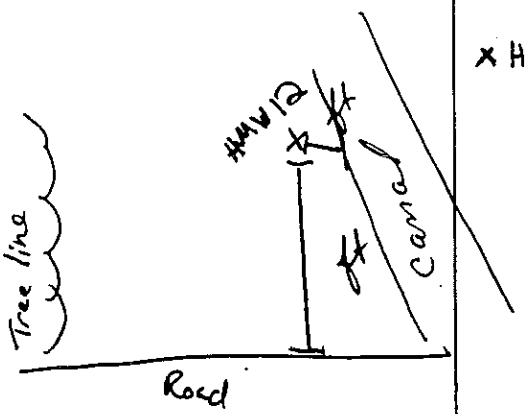
MRK FORM JUN 80 55-2 | PROJECT NAME & NO Hunter Army Airfield 11-3551-0320 | HOLE No HMW-12 | HF — Rev. 5/9

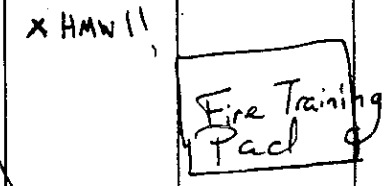
RTW DRILLING LOG

HMW 12

PROJECT	INSPECTOR	SHEET
Hunter Army Airfield	Heather A Laswell	3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	14	SAND, fine grain, sl. silty, saturated, gray {5Y6/1} [5Y]		J		4	5% recovery
						2	
	15					4	
				K		4	95% recovery
	16	SAME				2	
						2	
	17						
		Sampler driven to 17 ft bgs Augers drilled to 16 ft bgs					





MRK FORM JUN 80 55-2

PROJECT NAME & NO: Hunter Army Airfield 11-3551-0320

HOLE No. HMW 12

HF — Rev. 5/9

HTW DRILLING LOG

HMW 3

1. COMPANY NAME: LAW Eng & Env Services Inc	2. DRILLING SUBCONTRACTOR: LAW Engineering	SHEET 1 OF 3 SHEETS
3. PROJECT: Hunter Army Airfield	4. LOCATION (CITY, STATE): Savannah GA	
5. NAME OF DRILLER: Russell Murdock	6. MANUFACTURER'S DESIGNATION OF DRILL: CME 55 (ATV)	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 140 lb Hammer (cathead); 2 in Stainless Steel split spoon	9. HOLE LOCATION (SITE): Fire training area	
	10. SURFACE ELEVATION: 32.54'	
8. WEATHER: Sunny ; 79 , breeze from E	11. DATE STARTED: 10-03-95 1445	12. DATE COMPLETED: 10-03-95 1613
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 11.7 at 1542	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 12.64 (TOC) 1548 10-04-95	
15. TOTAL DEPTH OF HOLE: 18 ft	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 11.6 at 1547	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
1 (I)	—	—	NA

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22 TOTAL CORE RECOVERY%
2 (B&E)	✓	✓	TPH ✓	semivcc ✓		NA

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
		✓		Heather A Laswell

25. CHECKED BY	26. NAME OF INSPECTOR
glesper	Heather A. Laswell

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		Sand, fine to med, reddish brown {2.5YR 3/3} some roots [SP]	HS 16		A	4	100% recovery
						4	
	1.0					5	
						6	
	2.0	SAND, fine to med grain, brown {7.5YR 4/3} [SP]	HS 30		B	5	10% recovery
						5	
	3.0					5	
						4	
	4.0	color changing to light brown {7.5YR 6/4} SAND, fine to med grain pale yellow {2.5Y 7/4} [SP]	HS 40		C	3	slight fuel odor 100% recovery
						3	

MRK FORM JUN 89 55

PROJECT NAME & NO: Hunter Army Airfield 11-3551-0320

HOLE No HMW 13

HF — Rev. 5/94

RTW DRILLING LOG

RTWM-13

PROJECT	INSPECTOR	SHEET / OF
Hunter Army Airfield	Heather Laswell	2 / 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0					4	
						4	
	6.0	SAME, some roots, wood fragements, some black staining [SP]	HS 130		D	5	90% recovery
						4	fuel odor
	7.0					3	
						4	
	8.0	same	HS 90		E	6	100% recovery
						3	fuel odor
	9.0					3	
						8	
	10.0	SAND, pale yellow (2.5Y 7/4) wet, some wood fragments [SP]	HS 100		F	6	80% recovery
						6	
	11.0					3	GW at 11.7 ft bgs at 1547
		color Orange to black (2.5Y 2.5/1) [SP]				5	
	12.0	SAND; pale yellow (2.5Y 7/4) saturated, wood fragments [SP]	HS 1	G	G MB	7	100% recovery
						7	
	13.0					12	
						14	

MRK FORM JUN 89 55-2 | PROJECT NAME & NO Hunter Army Airfield | 11-3551-0320 | HOLE No HMW13 | HF — Rev. 5/9

RTW DRILLING LOG

HMW D

PROJECT: Hunter Army Airfield | INSPECTOR: Heather Laswell | SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	14.0	same	HS 2	H		9	100% recovery
						8	
	15.0					7	
						6	
	16.0	same, color change to gray (2.5Y 5/1) [SP]	HS 0	I		3	100% recovery
						WH 6	
	17.0					4	
						2	
	18.0	same.	HS 2	J		1	100% recovery
						2	
						2	
	19.0	augers drilled to 18 ft bgs Samplers taken to 20 ft bgs				1	
	20.0						
		concrete pad	0 0 stragglers	X HMW13			
		Road					N

MRK FORM JUN 89 55-2 | PROJECT NAME & NO Hunter Army Airfield 1-3551-0320 | HOLE No. HMW13

HF — Rev. 5/

HTW DRILLING LOG

HOLE No. HMW-14

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 3 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4-1/4 ID HSA; CME 55; AW Rods - SS	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 34.6 ft.	
8. WEATHER: Very Hot, 98° +	11. DATE STARTED: 7/28/99	12. DATE COMPLETED: 7/28/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 16.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
	2	0	0

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
		Type II		

25. CHECKED BY:	26. NAME OF INSPECTOR
David Goershel	Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
34.6		Firm medium to coarse clayey SAND (CL-SA)				
	1.0					
	2.0		NM	1.5-3	6-9-11	VOC, SVOC Analysis
	3.0					
	4.0					

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HTW DRILLING LOG

HOLE No. HMW-14

PROJECT: Hunter AAF CSR

INSPECTOR: Patrick J. Kelley

SHEET 2 OF 3 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
29.6		Firm medium to coarse clayey SAND (CL-SA)				
	6.0		NM	6-7	6-7-14	VOC, SVOC Analysis
	7.0					
	8.0					
	9.0					
	10.0					
	11.0				7-10-13	
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. HMW-14

PROJECT: Hunter AAF CSR | INSPECTOR: Patrick J. Kelley | SHEET 3 OF 3 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
20.6		Firm to medium coarse clayey SAND (CL-SA)			9-11-16	
	15.0					
18.6	16.0	Boring terminated at 16.0 feet				
	17.0					
	18.0					
	19.0					
	20.0					
	21.0					
	22.0					

HTW DRILLING LOG

HOLE No. HMW-14R

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 3 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: Dredrich 0-50 (well) - SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Soil Samples by DPT; Well by 6.25" ID HSA	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 32.7 ft.	
8. WEATHER	11. DATE STARTED: 1/05/00	12. DATE COMPLETED: 1/05/00
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 9.5 ft.	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 18.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	0-2 7-9		SVOC:0-2 7-9			

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Thomas M. Keller

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
32.7		Yellowish-brown fine slightly silty SAND (SP) [10YR 5/6]				
	1.0		0.7	0-2		VOC, SVOC Analysis
30.7	2.0	Dark grayish-brown fine slightly silty SAND [10YR 4/2]				
	3.0		0.3			
	4.0					

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HTW DRILLING LOG

HOLE No. HMW-14R

PROJECT: Hunter AAF CSR

INSPECTOR: Thomas M. Keller

SHEET 2 OF 3 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
26.7	6.0	Very dark grayish-brown fine silty SAND (SM) [10YR 3/2]				
	7.0					
	8.0		0.3	7-9		VOC, SVOC Analysis
	9.0					
						Wet at 9.5 ft.
22.7	10.0	Light gray fine slightly silty SAND (SP)[10YR 7/2]				
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. HMW-14R

PROJECT: Hunter AAF CSR

INSPECTOR: Thomas M. Keller

SHEET 3 OF 3 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
18.7		Light gray fine slightly silty SAND (SP) [2.5Y 7/1]				
	15.0					
	16.0					
	17.0					
14.7	18.0	Boring terminated at 18.0 feet				
	19.0					
	20.0					
	21.0					
	22.0					

HTW DRILLING LOG

HOLE No. HMW-15

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 3 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4-1/4 ID HSA; CME 55; AW Rods - SS	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 22.1 ft.	
8. WEATHER: Very Hot, 98° +	11. DATE STARTED: 7/28/99	12. DATE COMPLETED: 7/28/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 11-12 ft.	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 16.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
	2	0	0

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
		Type II		

25. CHECKED BY:	26. NAME OF INSPECTOR
David Goershel	Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
22.1		Firm dark gray to brown medium to coarse clayey SAND (CL-SA)				
	1.0					
	2.0		NM	1.5-3	4-6-6	VOC, SVOC Analysis
	3.0					
	4.0					

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HTW DRILLING LOG

HOLE No. HMW-15

PROJECT: Hunter AAF CSR

INSPECTOR: Patrick J. Kelley

SHEET 2 OF 3 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
17.1		Firm dark gray to brown medium to coarse clayey SAND (CL-SA)				
	6.0					
	7.0					
	8.0		NM	7.5-9	7-5-10	VOC, SVOC Analysis
	9.0					
	10.0					
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. HMW-15

PROJECT: Hunter AAF CSR

INSPECTOR: Patrick J. Kelley

SHEET 3 OF 3 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
8.1		Firm dark gray to brown medium to coarse clayey SAND (CL-SA)				
	15.0					
6.1	16.0	Boring terminated at 16.0 feet				
	17.0					
	18.0					
	19.0					
	20.0					
	21.0					
	22.0					

HTW DRILLING LOG

HOLE No. HMW-17

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 3 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4-1/4 ID HSA; CME 55; AW Rods - SS	9. HOLE LOCATION (SITE): Former Fire Training Area 10. SURFACE ELEVATION: 31.3 ft.	
8. WEATHER: Very Hot, 98° +	11. DATE STARTED: 7/29/99	12. DATE COMPLETED: 7/29/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 16.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
	2	0	0

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
		Type II		

25. CHECKED BY:	26. NAME OF INSPECTOR
David Goershel	Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
31.3	0	Firm brown to dark gray to orangish-tan medium to coarse clayey SAND (CL-SA)				
	1.0		NM	1.5	7-8-8	VOC, SVOC Analysis
	2.0					
	3.0					
	4.0					

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HTW DRILLING LOG

HOLE No. HMW-16

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 3 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4-1/4 ID HSA; CME 55; AW Rods - SS	9. HOLE LOCATION (SITE): Former Fire Training Area 10. SURFACE ELEVATION: 27.1 ft.	
8. WEATHER: Very Hot, 98° +	11. DATE STARTED: 7/28/99	12. DATE COMPLETED: 7/28/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 16.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
	2	0	0

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
		Type II		

25. CHECKED BY:	26. NAME OF INSPECTOR
David Goershel	Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27.1		Firm dark grayish-brown medium to coarse clayey SAND (CL-SA) with orangish-tan rocks				
	1.0					
	2.0		NM	1.5-3	3-3-4	VOC, SVOC Analysis
	3.0					
	4.0					

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HTW DRILLING LOG

HOLE No. HMW-16

PROJECT: Hunter AAF CSR | INSPECTOR: Patrick J. Kelley | SHEET 2 OF 3 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
22.1		Firm dark grayish-brown medium to coarse clayey SAND (CL-SA) with orangish-tan rocks				
	6.0					
	7.0					
	8.0		NM	7-8.5	9-9-10	VOC, SVOC Analysis
	9.0					
	10.0					
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. HMW-16

PROJECT: Hunter AAF CSR | INSPECTOR: Patrick J. Kelley | SHEET 3 OF 3 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
13.1		Firm dark grayish-brown medium to coarse clayey SAND (CL-SA) with orangish-tan rocks				
	15.0					
11.1	16.0	Boring terminated at 16.0 feet				
	17.0					
	18.0					
	19.0					
	20.0					
	21.0					
	22.0					

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HTW DRILLING LOG

HOLE No. HMW-17

PROJECT: Hunter AAF CSR | INSPECTOR: Patrick J. Kelley | SHEET 2 OF 3 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
26.3		Firm brown to dark gray to orangish-tan medium to coarse clayey SAND (CL-SA)				
	6.0					
	7.0					
	8.0		NM	7-8.5	5-6-7	VOC, SVOC Analysis
	9.0					
	10.0					
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. HMW-17

PROJECT: Hunter AAF CSR

INSPECTOR: Patrick J. Kelley

SHEET 3 OF 3 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
17.3		Firm brown to dark gray to orangish-tan medium to coarse clayey SAND (CL-SA)				
	15.0					
15.3	16.0	Boring terminated at 16.0 feet				
	17.0					
	18.0					
	19.0					
	20.0					
	21.0					
	22.0					

HTW DRILLING LOG

HOLE No. HMW-18

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: CME55	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Soil Samples by DPT; Well by 6.25" ID HSA	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 27.4 ft.	
8. WEATHER	11. DATE STARTED: 1/06/00	12. DATE COMPLETED: 1/08/00
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 3.5 ft.	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 14.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	0-2 2-3		SVOC:0-2 2-3	Pest:0-2		

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
		Type II		

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Thomas M. Keller

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27.4		Very dark gray slightly silty fine SAND (SP) with some organics [5YR 3/1]	0	0-2		VOC, SVOC, Pesticide Analysis
	1.0					
	2.0		0	2-3		VOC, SVOC Analysis
	3.0					
						Wet at 3.5 ft.
23.4	4.0	Light yellowish-brown fine SAND (SP) [10YR 6/4]				

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HTW DRILLING LOG

HOLE No. HMW-18

PROJECT: Hunter AAF CSR | INSPECTOR: Thomas M. Keller | SHEET 2 OF 2 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
21.4	6.0	Light yellowish-brown trace silt fine SAND (SP) [2.5Y 6/4]	NM	6-10		Grain Size Analysis
	7.0					
	8.0					
	9.0					
17.4	10.0	Light gray slightly silty fine SAND (SP)				
	11.0					
	12.0					
	13.0					
13.4		Boring terminated at 14.0 feet				

HTW DRILLING LOG

HOLE No. SB-38/HMW-19

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: CME 55	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Soil Samples by DPT; Well by 6.25" ID HSA	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 22.3 ft.	
8. WEATHER	11. DATE STARTED: 1/04/00	12. DATE COMPLETED: 1/08/00
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 5.5 ft.	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 14.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	0-2 3.5-5.5		SVOC: 0-2 3.5-5.5			

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
		Type II		

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Thomas M. Keller

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
22.3		Light brown slightly silty fine SAND (SP-SM) with organics (7.5YR 6/3)	0.6	0-2		VOC, SVOC Analysis
	1.0					
20.3	2.0	Reddish-black very silty fine SAND (SM) with organics (2.5YR 2.5/1)				
	3.0					Very Moist at 3.5 ft.
	4.0		0.1	3.5-5.5		VOC, SVOC Analysis

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HTW DRILLING LOG

HOLE No. SB-38/HMW-19

PROJECT: Hunter AAF CSR | INSPECTOR: Thomas M. Keller | SHEET 2 OF 2 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
						Wet at 5.5 ft.
16.3	6.0	Reddish-black very silty fine SAND (SM) with organics [2.5YR 2.5/1]				
	7.0					
14.8		Pale brown fine SAND (SP) [10YR 6/3], wet				
	8.0					
	9.0					
	10.0					
11.3	11.0	Gray trace clay slightly silty fine to medium SAND (SM) [2.5YR 5/1]				
	12.0					
	13.0					
8.3		Boring terminated at 14.0 feet				

HTW DRILLING LOG

HOLE No. SB-40/HMW-20

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: CME 55	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Soil Samples by DPT; Well by 6.25" ID HSA	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 21.0 ft.	
8. WEATHER	11. DATE STARTED: 1/04/00	12. DATE COMPLETED: 1/09/00
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 14.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	0-2 2-4					

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
		Type II		

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Thomas M. Keller

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
21.0		Black silty fine SAND (SP-SM) with organics [2.5Y 2.5/1]	11.7	0-2		VOC Analysis
	1.0					
	2.0					
	3.0		3.2	2-4		VOC Analysis
	4.0					

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HTW DRILLING LOG

HOLE No. SB-40/HMW-20

PROJECT: Hunter AAF CSR | INSPECTOR: Thomas M. Keller | SHEET 2 OF 2 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
16.0		Pale brown trace silt with minor clay lenses fine SAND (SP) [10YR 6/3]				
	6.0					
	7.0		0.7	6-10		Grain Size Analysis
13.0	8.0	Gray trace silt with minor clay lenses fine SAND (SM) [5Y 5/1]				
	9.0					
	10.0		0			
	11.0					
	12.0					
8.5		Gray trace silt fine to medium SAND (SP) [5Y 5/1]				
	13.0					
7.0		Boring terminated at 14.0 feet				

HTW DRILLING LOG

HOLE No. SB-18

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 31.8 ft.	
8. WEATHER	11. DATE STARTED: 7/22/99	12. DATE COMPLETED: 7/22/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 7.0 ft.	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 8.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
31.8		Fine SAND				
	1.0			1.5		VOC, SVOC Analysis
	2.0					
	3.0					
	4.0					

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HTW DRILLING LOG

HOLE No. SB-18

PROJECT: Hunter AAF CSR

INSPECTOR: Patrick J. Kelley

SHEET 2 OF 2 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	6.0			6.0		VOC, SVOC Analysis
	7.0					
23.8	8.0	Boring terminated at 8.0 feet				
	9.0					
	10.0					
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. SB-19

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 34.7 ft.	
8. WEATHER	11. DATE STARTED: 7/22/99	12. DATE COMPLETED: 7/22/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 6.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
34.7		Fine SAND				
	1.0			1.5		VOC, SVOC Analysis
	2.0					
	3.0					
	4.0					

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HTW DRILLING LOG

HOLE No. SB-19

PROJECT: Hunter AAF CSR

INSPECTOR: Patrick J. Kelley

SHEET 2 OF 2 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
				5.5		VOC, SVOC Analysis
28.7	6.0	Boring terminated at 6.0 feet				
	7.0					
	8.0					
	9.0					
	10.0					
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. SB-20

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering
SHEET 1 OF 2 SHEETS	
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area
	10. SURFACE ELEVATION: 35.6 ft.
8. WEATHER	11. DATE STARTED: 7/22/99 / 12. DATE COMPLETED: 7/22/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED
15. TOTAL DEPTH OF HOLE: 6.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY: Rhonda Quinn	26. NAME OF INSPECTOR: Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
35.6		Fine SAND				
	1.0			1.5		VOC, SVOC Analysis
	2.0					
	3.0					
	4.0					

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HTW DRILLING LOG

HOLE No. SB-20

PROJECT: Hunter AAF CSR

INSPECTOR: Patrick J. Kelley

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
				5.5		VOC, SVOC Analysis
29.6	6.0	Boring terminated at 6.0 feet				
	7.0					
	8.0					
	9.0					
	10.0					
	11.0					
	12.0					
	13.0					

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HTW DRILLING LOG

HOLE No. SB-21

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 26.3 ft.	
8. WEATHER	11. DATE STARTED: 7/22/99	12. DATE COMPLETED: 7/22/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 6.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
26.3		Fine SAND				
	1.0			1.5		VOC, SVOC Analysis
	2.0					
	3.0					
	4.0					

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HTW DRILLING LOG

HOLE No. SB-21

PROJECT: Hunter AAF CSR

INSPECTOR: Patrick J. Kelley

SHEET 2 OF 2 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
				5.5		VOC, SVOC Analysis
20.3	6.0	Boring terminated at 6.0 feet				
	7.0					
	8.0					
	9.0					
	10.0					
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. SB-22

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 22.3 ft.	
8. WEATHER	11. DATE STARTED: 7/22/99	12. DATE COMPLETED: 7/22/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 6.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
22.3		Fine SAND				
	1.0			1.5		VOC, SVOC Analysis
	2.0					
	3.0					
	4.0					

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HTW DRILLING LOG

HOLE No. SB-22

PROJECT: Hunter AAF CSR | INSPECTOR: Patrick J. Kelley | SHEET 2 OF 2 SHEETS

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ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
				5.5		VOC, SVOC Pesticide Analysis
16.3	6.0	Boring terminated at 6.0 feet				
	7.0					
	8.0					
	9.0					
	10.0					
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. SB-23

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 22.5 ft.	
8. WEATHER	11. DATE STARTED: 7/22/99	12. DATE COMPLETED: 7/22/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 6.5 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
22.5		Fine SAND				
	1.0			1.5		VOC, SVOC, Pesticide Analysis
	2.0					
	3.0					
	4.0					

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HTW DRILLING LOG

HOLE No. SB-23

PROJECT: Hunter AAF CSR

INSPECTOR: Patrick J. Kelley

SHEET 2 OF 2 SHEETS

C:\LOGS\SB-23.PL3 CJG--1 3-01-00

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
16.0	6.0	Boring terminated at 6.5 feet		6.5		VOC, SVOC Pesticide Analysis
	7.0					
	8.0					
	9.0					
	10.0					
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. SB-24

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 24.1 ft.	
8. WEATHER	11. DATE STARTED: 7/29/99	12. DATE COMPLETED: 7/29/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 6.5 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
24.1		Fine SAND				
	1.0			1.5		VOC, SVOC, Pesticide Analysis
	2.0					
	3.0					
	4.0					

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HTW DRILLING LOG

HOLE No. SB-24

PROJECT: Hunter AAF CSR

INSPECTOR: Patrick J. Kelley

SHEET 2 OF 2 SHEETS

C:\LOGS\SB-24.PL3 CJG--1 3-01-0

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
17.6	6.0	Boring terminated at 6.5 feet		6.5		VOC, SVOC Pesticide Analysis
	7.0					
	8.0					
	9.0					
	10.0					
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. SB-25

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEET
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRI: SIMCO Earth Prob 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Train[illegible] rea	
	10. SURFACE ELEVATION: 27.6 ft.	
8. WEATHER	11. DATE STARTED: 7/22/99	12. COMPLETED: 7/22/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER [illegible]ING COMPLETED	
15. TOTAL DEPTH OF HOLE: 6.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27.6	0	Fine SAND				
	1.0			1.5		VOC, SVOC, Pesticide Analysis
	2.0					
	3.0					
	4.0					

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MRK FORM JUN 89 55

PROJECT NAME & NO. D-102 Hunter AFF - CSR 12001-9-3411

HOLE No. SB-25

HF - Rev. 4/94

HTW DRILLING LOG

HOLE No. SB-25

PROJECT: Hunter AAF CSR

INSPECTOR: Patrick J. Kelley

SHEET 2 OF 2 SHEETS

C:\LOGS\SB-25.PL3 CJG--1 3-01-00

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
				5.5	1	VOC, SVOC Pesticide Analysis
21.6	6.0	Boring terminated at 6.0 feet				
	7.0					
	8.0					
	9.0					
	10.0					
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. SB-26

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 33.5 ft.	
8. WEATHER	11. DATE STARTED: 7/22/99	12. DATE COMPLETED: 7/22/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 6.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
33.5		Fine SAND				
	1.0			1.5		VOC, SVOC, Pesticide Analysis
	2.0					
	3.0					
	4.0					

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HTW DRILLING LOG

HOLE No. SB-26

PROJECT: Hunter AAF CSR

INSPECTOR: Patrick J. Kelley

SHEET 2 OF 2 SHEETS

C:\LOGS\SB-26.PL3 CJG--1 3-01-00

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
				5.5		VOC, SVOC Pesticide Analysis
27.5	6.0	Boring terminated at 6.0 feet				
	7.0					
	8.0					
	9.0					
	10.0					
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. SB-27

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 27.6 ft.	
8. WEATHER	11. DATE STARTED: 7/22/99	12. DATE COMPLETED: 7/22/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 6.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27.6		Fine SAND				
	1.0			1.5		VOC, SVOC, Pesticide Analysis
	2.0					
	3.0					
	4.0					

C:\LOGS\SB-27.PL3 CJG-1 3-01-00

HTW DRILLING LOG

HOLE No. SB-27

PROJECT: Hunter AAF CSR

INSPECTOR: Patrick J. Kelley

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
				5.5		VOC, SVOC Analysis
21.6	6.0	Boring terminated at 6.0 feet				
	7.0					
	8.0					
	9.0					
	10.0					
	11.0					
	12.0					
	13.0					

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HTW DRILLING LOG

HOLE No. SB-28

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 33.5 ft.	
8. WEATHER	11. DATE STARTED: 7/22/99	12. DATE COMPLETED: 7/22/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 6.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
33.5		Fine SAND				
	1.0			1.5		VOC, SVOC Analysis
	2.0					
	3.0					
	4.0					

C:\LOGS\SB-28.PL3 CJG--1 3-01-00

HTW DRILLING LOG

HOLE No. SB-28

PROJECT: Hunter AAF CSR | INSPECTOR: Patrick J. Kelley | SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
				5.5		VOC, SVOC Analysis
27.5	6.0	Boring terminated at 6.0 feet				

C:\LOGS\SB-28.PL3 CJG--1 3-01-0C

7.0 8.0 9.0 10.0 11.0 12.0 13.0

MRK FORM JUN 89 55-2 | PROJECT NAME & NO. D-109 Hunter AFF - CSR 12001-9-3411 | HOLE No. SB-28

HF - Rev. 4/94

HTW DRILLING LOG

HOLE No. SB-29

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 34.2 ft.	
8. WEATHER	11. DATE STARTED: 7/22/99	12. DATE COMPLETED: 7/22/99
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 6.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Patrick J. Kelley

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
34.2		Fine SAND				
	1.0			1.5		VOC, SVOC Analysis
	2.0					
	3.0					
	4.0					

C:\LOGS\SB-29.PL3 CJG--1 3-01-00

HTW DRILLING LOG

HOLE No. SB-29

PROJECT: Hunter AAF CSR

INSPECTOR: Patrick J. Kelley

SHEET 2 OF 2 SHEETS

C:\LOGS\SB-29.PL3 CJG-1 3-01-00

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
				5.5		VOC, SVOC Analysis
28.2	6.0	Boring terminated at 6.0 feet				
	7.0					
	8.0					
	9.0					
	10.0					
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. SB-30

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 31.6 ft.	
8. WEATHER: Windy, Clear	11. DATE STARTED: 1/05/00	12. DATE COMPLETED: 1/05/00
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 9.0 ft.	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 10.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	0-2 6-8		SVOC:0-2 6-8			

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY: Rhonda Quinn	26. NAME OF INSPECTOR: Thomas M. Keller

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
31.6		Fine slightly silty brown SAND (SM) [7.5YR 5/4]				
	1.0		0.5	0-2		VOC, SVOC Analysis
29.6	2.0	Fine slightly silty dark black (SP-SM) [5YR 2.5/1] (SP-SM)				
	3.0					
	4.0		0.5			

C:\LOGS\SB-30.PL3 CJG-1 3-01-00

HTW DRILLING LOG

HOLE No. SB-30

PROJECT: Hunter AAF CSR

INSPECTOR: Thomas M. Keller

SHEET 2 OF 2 SHEETS

C:\LOGS\SB-30.PL3 CJG-1 3-01-00

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
25.6	6.0	Fine to medium slightly silty some hard lumps very dark grayish brown SAND (SP) [10YR 3/2]				
	7.0		0.5	6-8		VOC, SVOC Analysis
	8.0					
	9.0					Wet at 9.0 ft.
21.6	10.0	Boring terminated at 10.0 feet				
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. SB-31

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 34.2 ft.	
8. WEATHER	11. DATE STARTED: 1/05/00	12. DATE COMPLETED: 1/05/00
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 7.5 ft.	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 10.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	0-2 6-8		SVOC:0-2 6-8			

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Thomas M. Keller

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
34.2		Concrete				
33.7		Fine light brown SAND (SP) with trace of silt [7.5YR 6/3]				
	1.0		0.3	0.5-2		VOC Analysis
	2.0					
	3.0					
	4.0					

C:\LOGS\SB-31.PL3 CJG-1 3-01-00

HTW DRILLING LOG

HOLE No. SB-31

PROJECT: Hunter AAF CSR

INSPECTOR: Thomas M. Keller

SHEET 2 OF 2 SHEETS

C:\LOGS\SB-31.PL3 CJG--1 3-01-00

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
29.2		Fine light brown SAND (SP) with trace of silt [7.5YR 6/3]				
	6.0		0.3	5-7		
	7.0					Wet at 7.5 ft.
	8.0					
	9.0					
24.2	10.0	Boring terminated at 10.0 feet				
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. SB-32

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 33.7 ft.	
8. WEATHER	11. DATE STARTED: 1/05/00	12. DATE COMPLETED: 1/05/00
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 7.0 ft.	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 10.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
			PCB:0.5-2 4-6			

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Thomas M. Keller

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
33.7		Concrete				
33.2		Very pale brown fine SAND (SP) with trace of silt [10YR 7/3]				
	1.0		0.3	0.5-2		PCB Analysis
	2.0					
	3.0					
	4.0		0	4-6		PCB Analysis

C:\LOGS\SB-32.PL3 CJG--1 3-01-00

HTW DRILLING LOG

HOLE No. SB-32

PROJECT: Hunter AAF CSR

INSPECTOR: Thomas M. Keller

SHEET 2 OF 2 SHEETS

C:\LOGS\SB-32.PL3 CJG--1 3-01-00

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	6.0					
	7.0					Wet at 7.0 ft.
26.2		Light gray clayey SAND [5Y 7/1]				
	8.0					
	9.0					
23.7	10.0	Boring terminated at 10.0 feet				
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. SB-33

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 33.2 ft.	
8. WEATHER	11. DATE STARTED: 1/05/00	12. DATE COMPLETED: 1/05/00
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 5.5 ft.	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 10.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	0.5-2 3-5		PCB:0.5-2 3-5			

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Thomas M. Keller

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
33.2		Concrete				
32.7		Light brown fine SAND (SP) with trace of silt				
	1.0		0.1	0.5-2		VOC, PCB Analysis
31.2	2.0	Pinkish-white fine SAND (SP) [7.5YR 8/2] - clean well sorted, poor graded				
	3.0					
	4.0		0.4	3-5		VOC, PCB Analysis

C:\LOGS\SB-33.PL3 CJG-1 3-01-00

HTW DRILLING LOG

HOLE No. SB-33

PROJECT: Hunter AAF CSR

INSPECTOR: Thomas M. Keller

SHEET 2 OF 2 SHEETS

C:\LOGS\SB-33.PL3 CJG-1 3.01-00

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
						Wet at 5.5 ft.
27.2	6.0	Pinkish-white fine SAND (SP) [7.5YR 8/2]				
	7.0					
	8.0					
	9.0					
23.2	10.0	Boring terminated at 10.0 feet				
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. SB-34

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 32.5 ft.	
8. WEATHER	11. DATE STARTED: 1/05/00	12. DATE COMPLETED: 1/05/00
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 5.5 ft.	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 10.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	0-2 2.5-4.5		Pest:0-2 2.5-4.5			

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Thomas M. Keller

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
32.5		Yellowish-brown slightly silty fine SAND (SP)[10YR 5/4]				
	1.0		0.7	0-2		VOC, Pesticide Analysis
	2.0					
	3.0		0.1	2.5-4.5		VOC, Pesticide Analysis
	4.0					

C:\LOGS\SB-34.PL3 CJG--1 3-01-00

HTW DRILLING LOG

HOLE No. SB-34

PROJECT: Hunter AAF CSR

INSPECTOR: Thomas M. Keller

SHEET 2 OF 2 SHEETS

C:\LOGS\SB-34.PL3 CJG--1 3-01-00

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
						Wet at 5.5 ft.
26.7	6.0	Light gray fine sandy CLAY (CH) with high plasticity [2.5Y 7/1]				
	7.0					
	8.0					
	9.0					
22.5	10.0	Boring terminated at 10.0 feet				
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. SB-35

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 32.1 ft.	
8. WEATHER	11. DATE STARTED: 1/06/00	12. DATE COMPLETED: 1/06/00
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 5.5 ft.	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 10.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	0-2 4-6		SVOC:0-2 4-6	Pest:0-2 4-6		

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Thomas M. Keller

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
32.1		Black slightly silty fine SAND (SP) [7.5YR 25/2] with some organics				
	1.0		1.7	0-2		VOC, SVOC, Pesticide Analysis
	2.0					
	3.0					
	4.0					
27.6			0.5	4-6		VOC, SVOC, Pesticide Analysis

C:\LOGS\SB-35.PL3 CJG--1 3-01-00

HTW DRILLING LOG

HOLE No. SB-35

PROJECT: Hunter AAF CSR

INSPECTOR: Thomas M. Keller

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
27.1		Gray slightly silty clayey fine SAND (SP-SM) [7.5YR 6/1]		4-6		
	6.0					Wet at 6.5 ft.
	7.0					
	8.0					
	9.0					
22.1	10.0	Boring terminated at 10.0 feet				
	11.0					
	12.0					
	13.0					

C:\LOGS\SB-35.PL3 CJG-1 3-01-00

HTW DRILLING LOG

HOLE No. SB-36

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 28.9 ft.	
8. WEATHER	11. DATE STARTED: 1/06/00	12. DATE COMPLETED: 1/06/00
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 3.5 ft.	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 6.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	0-2 2-3		SVOC:0-2 2-3	Pest:0-2		

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Thomas M. Keller

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
28.9		Very dark gray slightly silty fine SAND (SP) [7.5YR 3/1] with some organics				
	1.0		0.3	0-2		VOC, SVOC, Pesticide Analysis
27.2		Very dark gray slightly silty fine SAND (SP) [7.5YR 3/1] with some organics				
	2.0			2-3		VOC, SVOC Analysis
	3.0					
25.4		Dusky red slightly silty fine SAND (SP) [2.5YR 4/3]				Wet at 3.5 ft.
	4.0		0.3			

C:\LOGS\SB-36.PL3 CJG--1 3-01-00

HTW DRILLING LOG

HOLE No. SB-36

PROJECT: Hunter AAF CSR

INSPECTOR: Thomas M. Keller

SHEET 2 OF 2 SHEETS

C:\LOGS\SB-36.PL3 CJG--1 3-01-00

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
22.9	6.0	Boring terminated at 6.0 feet				
	7.0					
	8.0					
	9.0					
	10.0					
	11.0					
	12.0					
	13.0					

HTW DRILLING LOG

HOLE No. SB-39

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF CSR	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Cody Presley	6. MANUFACTURER'S DESIGNATION OF DRILL: SIMCO Earth Probe 200	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: DPT	9. HOLE LOCATION (SITE): Former Fire Training Area	
	10. SURFACE ELEVATION: 19.8 ft.	
8. WEATHER: Partly Cloudy	11. DATE STARTED: 1/04/00	12. DATE COMPLETED: 1/04/00
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 4.0 ft.	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 10.0 ft.	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	0-2 2-4					

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
			Sealed with Bentonite	

25. CHECKED BY:	26. NAME OF INSPECTOR
Rhonda Quinn	Thomas M. Keller

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
19.8		Black organic silty SAND (SM) [2.5Y 25/1]				
	1.0		0.0	0-2		VOC Analysis
17.8	2.0	Dark organic brown slightly silty fine SAND (SP-SM) [7.5YR 3.2]	0.0	2-4		VOC Analysis
	3.0					
	4.0					Wet at 4.0 ft.

C:\LOGS\SB-39.PL3 CJG--1 3-01-00

HTW DRILLING LOG

HOLE No. SB-39

PROJECT: Hunter AAF CSR

INSPECTOR: Thomas M. Keller

SHEET 2 OF 2 SHEETS

C:\LOGS\SB-39.PL3 CJG-1 3-01-00

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
14.4		Light brown fine SAND (SP) [7.5YR 6/3]				
	6.0					
12.8	7.0	Gray silty fine SAND (SM) [5Y 5/1]				
	8.0					
	9.0					
9.8	10.0	Boring terminated at 10.0 feet				
	11.0					
	12.0					
	13.0					

TYPE II MONITORING WELL INSTALLATION DIAGRAM

PROJECT NAME Hunter Army Airfield PROJECT NO. 11-3551-0320

WELL NO. HMW 10 WELL LOCATION Fire Training Area

DATE 10-03-95 TIME 1350 - 1430

GROUND SURFACE ELEVATION 27.96

TOP OF SCREEN ELEVATION ~~28.68~~ 25.14

REFERENCE POINT ELEVATION (TOC) 30.68

TYPE FILTER PACK SAND GRADATION 20/40

FILTER PACK MANUFACTURER Mall

SCREEN MATERIAL 40 PVC

MANUFACTURER DSI

SCREEN DIAMETER 2in SLOT SIZE .010

RISER MATERIAL 40 PVC

MANUFACTURER DSI

RISER DIAMETER 2in

DRILLING TECHNIQUE HSA

AUGER/BIT SIZE AND TYPE 4½ ID

BENTONITE TYPE 3/8 in tablets

MANUFACTURER Cetco Volclay

CEMENT TYPE Portland

MANUFACTURER Signal Mountain

BOREHOLE DIAMETER 8.5 OD

LAW FIELD REPRESENTATIVE H Laswell

DRILLING CONTRACTOR Law Eng.

AMOUNT BENTONITE USED (SEAL) 1 & buckets

AMOUNT BENTONITE USED (GROUT) NA

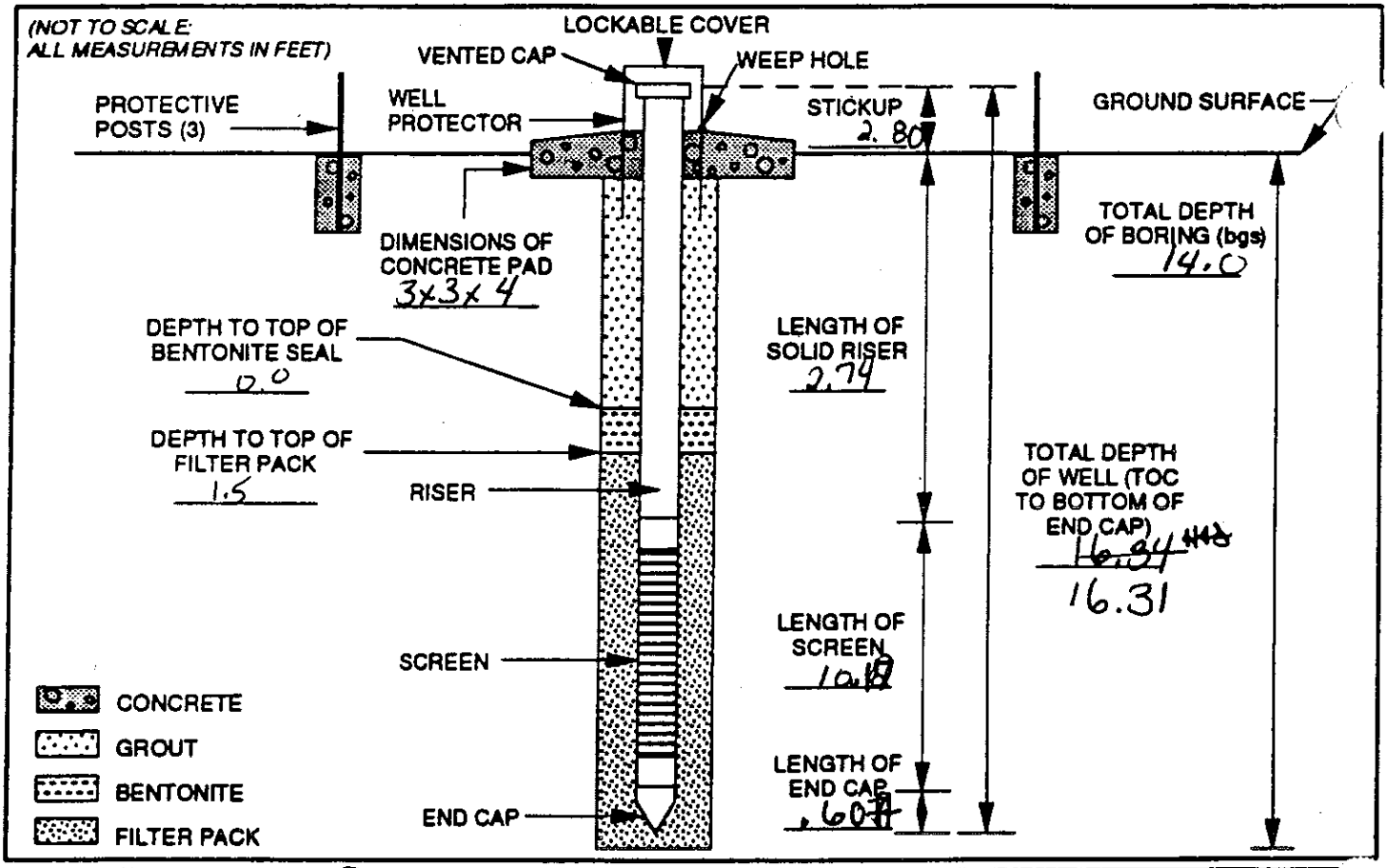
AMOUNT CEMENT USED (GROUT) NA

AMOUNT SAND USED 4 - 50 lb bags

STATIC WATER LEVEL (> 24 hrs. after dev.) 7.36 (TOC)

MEASURED ON (Date/Time) 10-04-95 1550

REMARKS Prepack screen (16/20 sand)



QA / QC

DRILLER: Russell Murdock INSPECTOR: Heather A Laswell

DISCREPANCIES: _____ CHECKED BY: gllemp DATE: 10-03-95

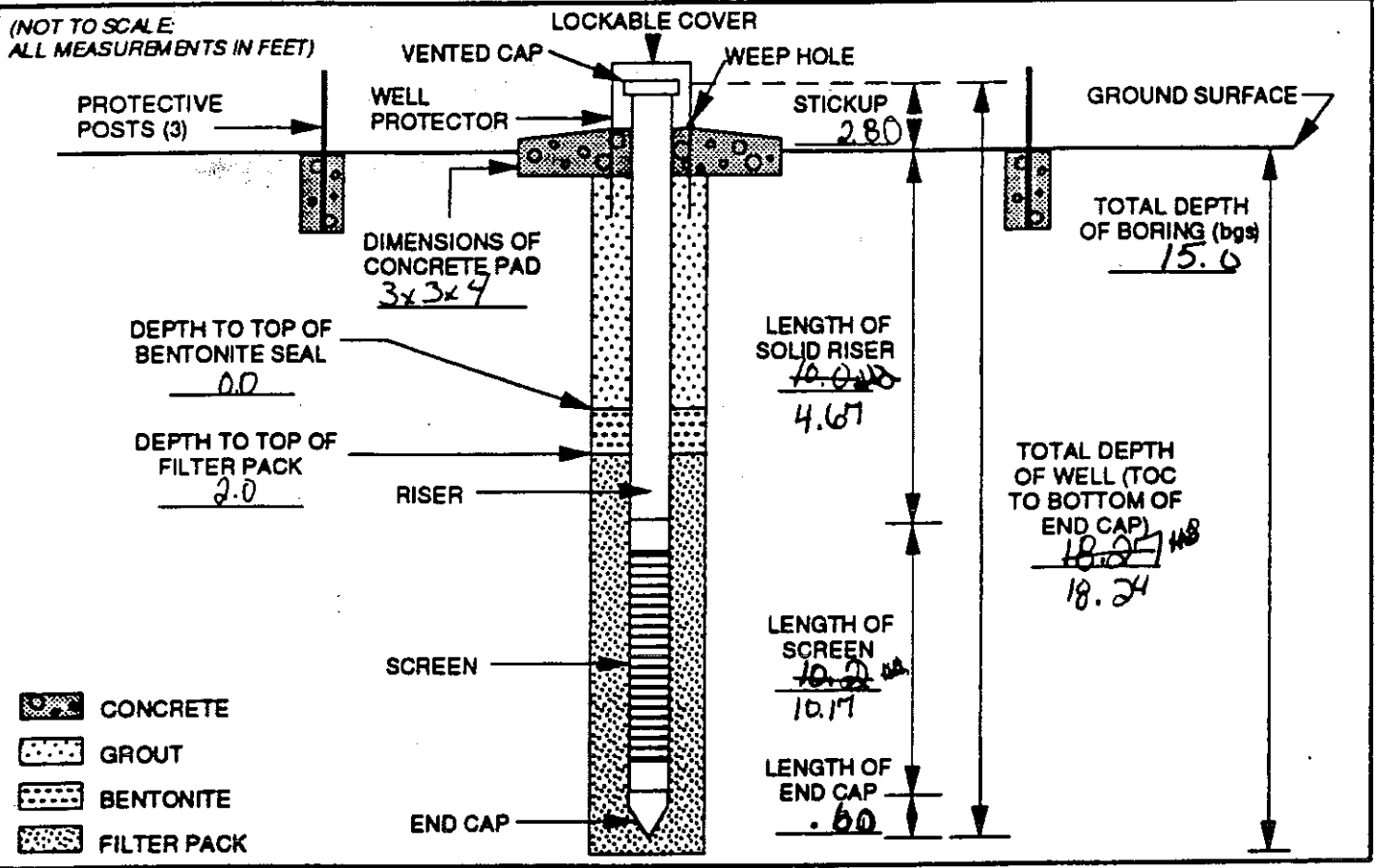
Type II SU — Rev. 6/94

TYPE II MONITORING WELL INSTALLATION DIAGRAM

PROJECT NAME Hunter Army Airfield PROJECT NO. 11-3551-0320
WELL NO. HMW 11 WELL LOCATION Fire Traing Area
DATE 10-03-95 TIME 0920 - 0950

GROUND SURFACE ELEVATION 28.82'
TOP OF SCREEN ELEVATION 23.83'
REFERENCE POINT ELEVATION TOC 31.30'
TYPE FILTER PACK SAND GRADATION 20/40
FILTER PACK MANUFACTURER Moire
SCREEN MATERIAL 40 PVC
MANUFACTURER DSI
SCREEN DIAMETER 2 in SLOT SIZE .010
RISER MATERIAL 40 PVC
MANUFACTURER DSI
RISER DIAMETER 2 in
DRILLING TECHNIQUE 4 1/4 HSA
AUGER/BIT SIZE AND TYPE 4 1/2 ID
REMARKS prepacked screen (16/30 sand)

BENTONITE TYPE 3/8 in tablets
MANUFACTURER Cetco Volclay
CEMENT TYPE Portland
MANUFACTURER Signal Mountain
BOREHOLE DIAMETER 8 1/2 OD
LAW FIELD REPRESENTATIVE H Laswell
DRILLING CONTRACTOR Roy Law Eng.
AMOUNT BENTONITE USED (SEAL) 1 bucket
AMOUNT BENTONITE USED (GROUT) NA
AMOUNT CEMENT USED (GROUT) NA
AMOUNT SAND USED 3.5 5016 bgs
STATIC WATER LEVEL (> 24 hrs. after dev.) 10.83 TOC
MEASURED ON (Date/Time) 10-04-95 1544



QA / QC

DRILLER: Russell Murdock INSPECTOR: Heather A. Laswell
DISCREPANCIES: CHECKED BY: DATE: 10-03-95

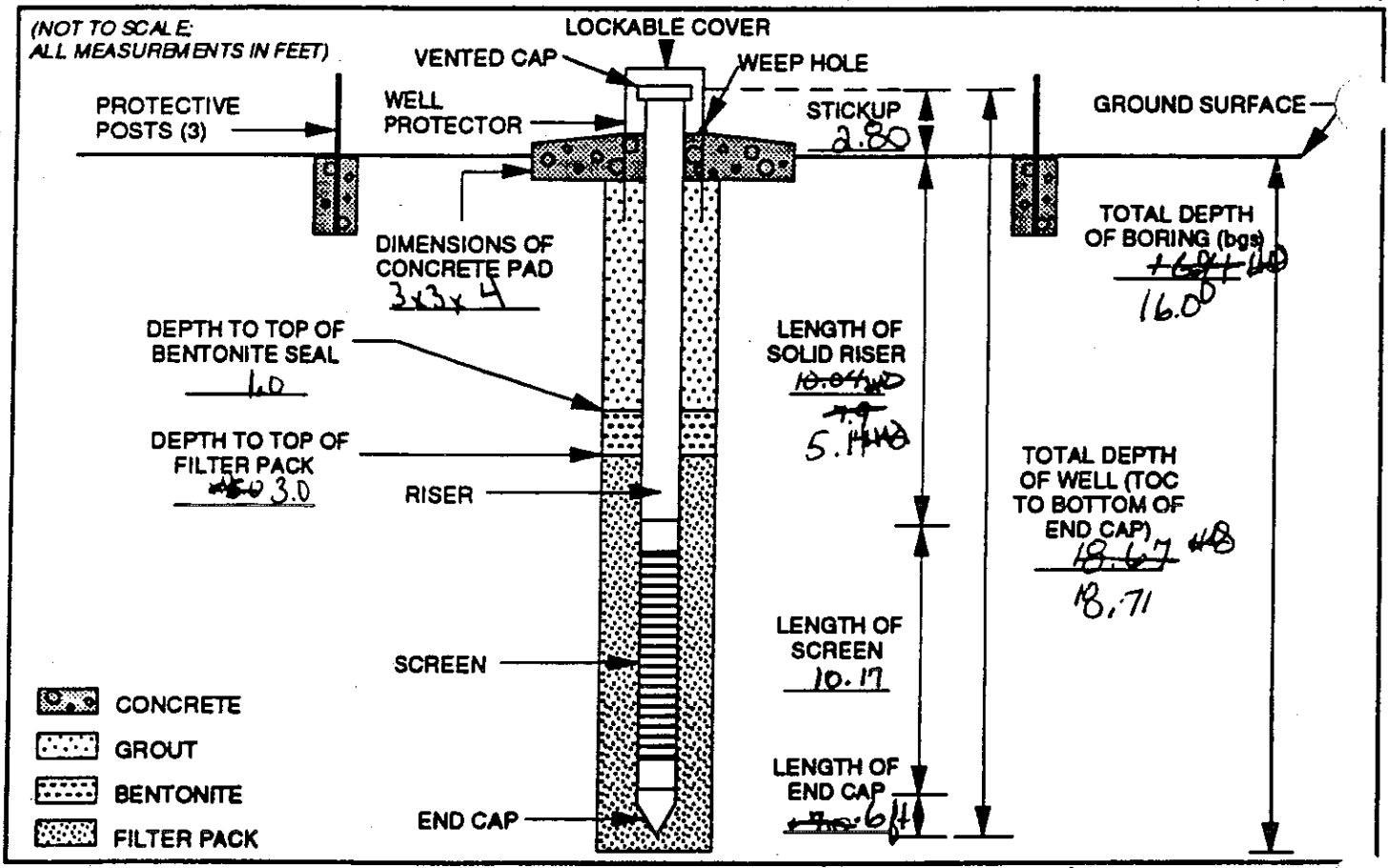
Type II SU — Rev. 6/94

TYPE II MONITORING WELL INSTALLATION DIAGRAM

PROJECT NAME Hunter Army Airfield PROJECT NO. 4-3551-0320
WELL NO. HMW 12 WELL LOCATION Fire training area
DATE 10-02-95 TIME 1815 - 1835

GROUND SURFACE ELEVATION 29.29'
TOP OF SCREEN ELEVATION 23.82'
REFERENCE POINT ELEVATION 31.76'
TYPE FILTER PACK SAND GRADATION 20/40 ~~#60~~ MSA
FILTER PACK MANUFACTURER MORIE
SCREEN MATERIAL 40 PVC
MANUFACTURER DSI
SCREEN DIAMETER 2 in SLOT SIZE .01
RISER MATERIAL 40 PVC
MANUFACTURER DSI
RISER DIAMETER 2 in
DRILLING TECHNIQUE 4¼ HSA
AUGER/BIT SIZE AND TYPE 4½ ID
REMARKS Prepack 16/20 ~~filter~~ screen

BENTONITE TYPE 3/8 in tablets
MANUFACTURER Cetco Volclay
CEMENT TYPE Portland
MANUFACTURER Signal mountain
BOREHOLE DIAMETER 8½ OD
LAW FIELD REPRESENTATIVE H.A. Caswell
DRILLING CONTRACTOR LAW Eng.
AMOUNT BENTONITE USED (SEAL) 1 bucket
AMOUNT BENTONITE USED (GROUT) NA
AMOUNT CEMENT USED (GROUT) NA
AMOUNT SAND USED 4 5016 bags
STATIC WATER LEVEL (> 24 hrs. after dev.) 11.48 TOC
MEASURED ON (Date/Time) 10-03-95 1700
4 gallons of H2O to hydrate seal



QA / QC
DRILLER: Russell Murdock INSPECTOR: Heather A Fussell
DISCREPANCIES: CHECKED BY: JKeegan DATE: 10-10-95

Type II SU — Rev. 6/94

TYPE II MONITORING WELL INSTALLATION DIAGRAM

PROJECT NAME Hunter Army Airfield PROJECT NO. 11-3551-0320

WELL NO. HMW 13 WELL LOCATION Fire Training Area

DATE 10-03-95 TIME 1615 - 1630

GROUND SURFACE ELEVATION 32.54'

TOP OF SCREEN ELEVATION 24.79'

REFERENCE POINT ELEVATION 34.83'

TYPE FILTER PACK SAND GRADATION 20/40

FILTER PACK MANUFACTURER Morie

SCREEN MATERIAL 40 PVC

MANUFACTURER DSI

SCREEN DIAMETER 2 SLOT SIZE .010

RISER MATERIAL 40 PVC

MANUFACTURER DSI

RISER DIAMETER 2

DRILLING TECHNIQUE HSA

AUGER/BIT SIZE AND TYPE 4½ ID

REMARKS Prepacked screen (16/20 Sand)

BENTONITE TYPE 3/8 in tablets

MANUFACTURER Petro Volcky

CEMENT TYPE Portland

MANUFACTURER Signal Mountain

BOREHOLE DIAMETER 8½ OD

LAW FIELD REPRESENTATIVE H Caswell

DRILLING CONTRACTOR Law Eng

AMOUNT BENTONITE USED (SEAL) 1 bucket

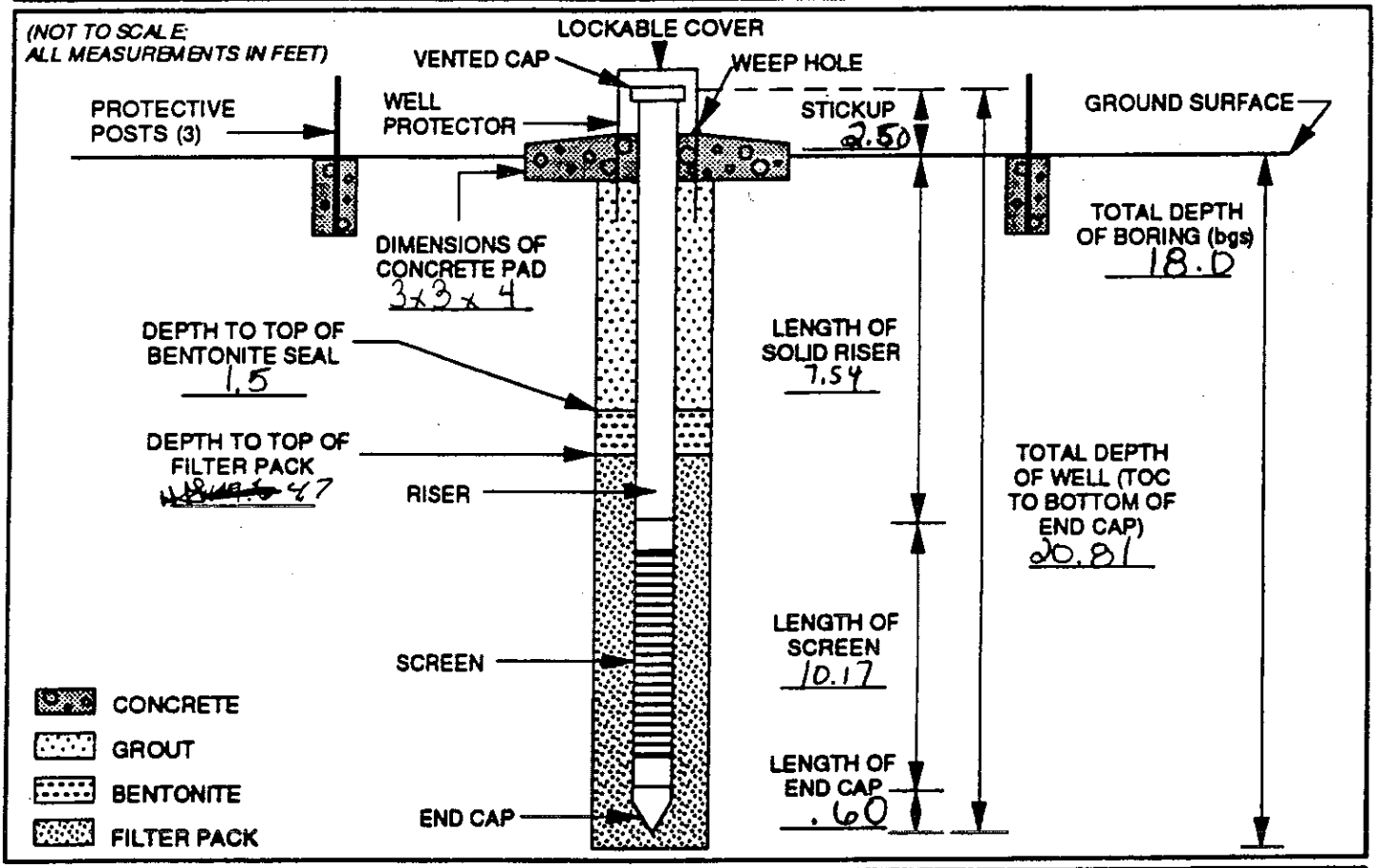
AMOUNT BENTONITE USED (GROUT) NA

AMOUNT CEMENT USED (GROUT) NA

AMOUNT SAND USED 4 50lb bags

STATIC WATER LEVEL (> 24 hrs. after dev.) 12.64 (TOC)

MEASURED ON (Date/Time) 10-04-95 1548



QA / QC

DRILLER: _____ INSPECTOR: H Caswell

DISCREPANCIES: _____ CHECKED BY: J Kayser DATE: 12/19/95

Type II SU — Rev. 6/94

FIGURE B-2

TYPE II MONITORING WELL INSTALLATION DIAGRAM

PROJECT NAME Hunter Air Field PROJECT NO. 12001-9-0331

WELL NO. H.M.W-14 WELL LOCATION on site see map

DATE 7-28-99 TIME 8 PM - 11 PM

GROUND SURFACE ELEVATION _____

TOP OF SCREEN ELEVATION 4' from surface

REFERENCE POINT ELEVATION _____

TYPE FILTER PACK #1 GRADATION 20/40

FILTER PACK MANUFACTURER DSI

SCREEN MATERIAL SCH 40 P.V.C.

MANUFACTURER BOART LONGYEAR

SCREEN DIAMETER 2" SLOT SIZE .010

RISER MATERIAL SCH 40 P.V.C.

MANUFACTURER BOART LONGYEAR

RISER DIAMETER 2"

DRILLING TECHNIQUE Hollow Stem Auger

AUGER/BIT SIZE AND TYPE CME 4¼" ID HD

REMARKS Wet Sand * pad to top of bentonite seal using sakrete

BENTONITE TYPE Pure Gold - med chips

MANUFACTURER Cetco

CEMENT TYPE SaKrete

MANUFACTURER Southern Products + Silica

BOREHOLE DIAMETER 8"

LAW FIELD REPRESENTATIVE Pat Kelly

DRILLING CONTRACTOR LAW Engineering

AMOUNT BENTONITE USED (SEAL) 1 Bag - 1.5'

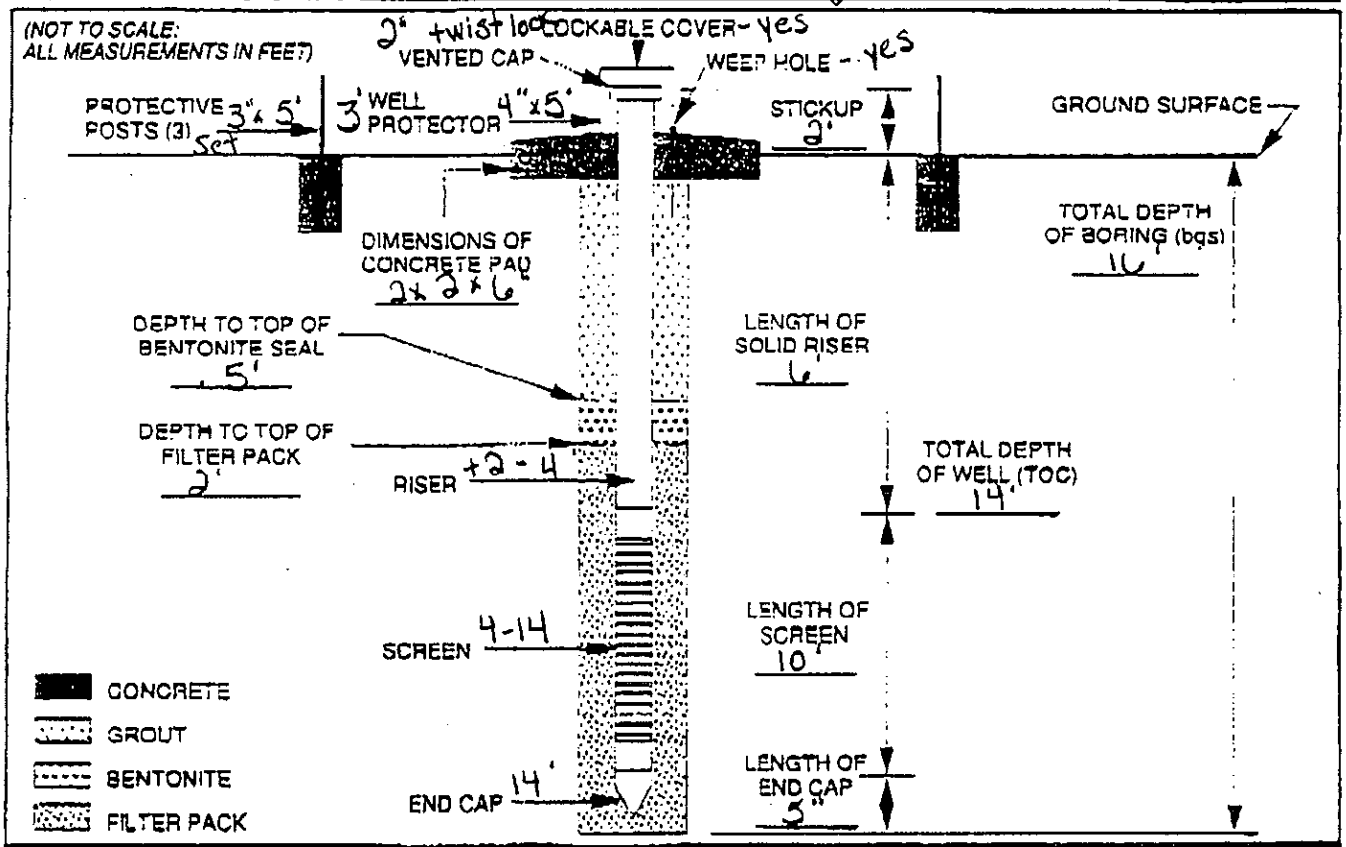
AMOUNT BENTONITE USED (GROUT) _____

AMOUNT ~~CEMENT~~ SaKrete USED (GROUT) * 3 - 80lb. Bags

AMOUNT SAND USED 8 - 50 lb. Bags

STATIC WATER LEVEL (> 24 hrs. after dev.) _____

MEASURED ON (Date/Time) _____



QA / QC | DRILLER: Cody Presley INSPECTOR: _____

DISCREPANCIES: _____ CHECKED BY: _____ DATE: _____

Type II SU — Rev. 6/94

TYPE II MONITORING WELL INSTALLATION DIAGRAM

PROJECT NAME HUNTER AAF PROJECT NO. 12001-9-03411

WELL NO. HMW-14R WELL LOCATION FORMER FIRE TRAINING AREA

DATE 1-7-00 TIME

GROUND SURFACE ELEVATION

TOP OF SCREEN ELEVATION

REFERENCE POINT ELEVATION

TYPE FILTER PACK Silica Sand GRADATION ~~30-60~~ 30-65 TMC

FILTER PACK MANUFACTURER STANDARD SAND

SCREEN MATERIAL ~~PCV~~ PVC

MANUFACTURER U.S. FILTER

SCREEN DIAMETER 2" SLOT SIZE 0.06

RISER MATERIAL PVC

MANUFACTURER BOART LONGYEAR

RISER DIAMETER 2"

DRILLING TECHNIQUE HSA

AUGER/BIT SIZE AND TYPE 6.25

BENTONITE TYPE 3/8" CHIP

MANUFACTURER DSI - SHAW PLANT

CEMENT TYPE PORTLAND

MANUFACTURER CEMEX

BOREHOLE DIAMETER > 10"

LAW FIELD REPRESENTATIVE T.M. KELLER

DRILLING CONTRACTOR LAW CHARLOTTE

AMOUNT BENTONITE USED (SEAL) 50 lbs

AMOUNT BENTONITE USED (GROUT) ~ 6 lbs

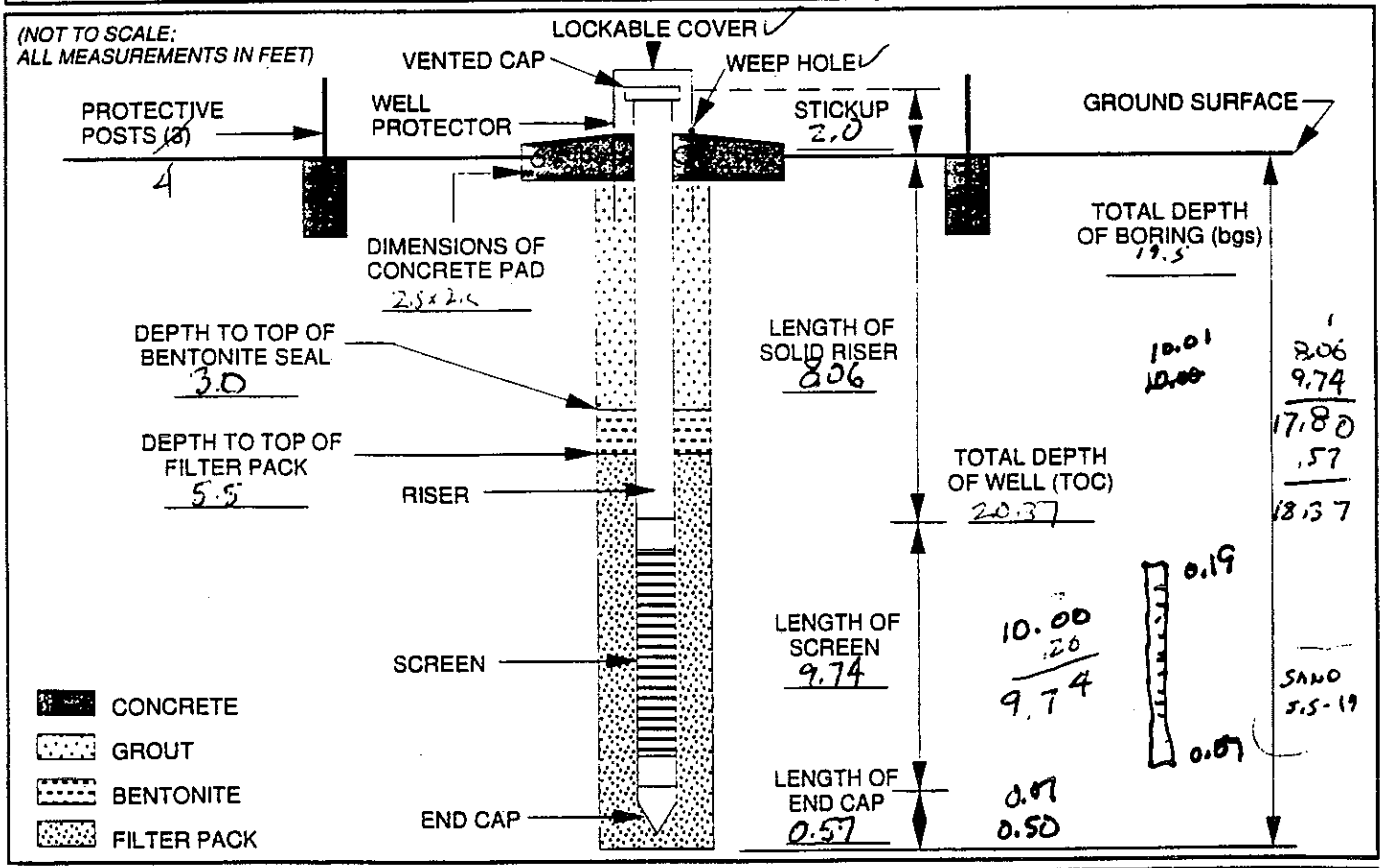
AMOUNT CEMENT USED (GROUT) 122 lbs (TMC)

AMOUNT SAND USED 550

STATIC WATER LEVEL (> 24 hrs. after dev.)

MEASURED ON (Date/Time)

REMARKS ADDED 10 GAL WATER TO WET SAND, 10 GALS TO CHARGE AUGERS



QA / QC

DRILLER: Judy Bradley INSPECTOR: T.M. Kelly

DISCREPANCIES: CHECKED BY: DATE:

Type II SU — Rev. 6/94

FIGURE B-2

TYPE II MONITORING WELL INSTALLATION DIAGRAM

PROJECT NAME Hunter Air Field PROJECT NO. 12001-9-0331

WELL NO. H.M.W-15 WELL LOCATION on site see map

DATE Wed. 7-28-99 TIME 11PM - 1PM

GROUND SURFACE ELEVATION _____

TOP OF SCREEN ELEVATION _____

REFERENCE POINT ELEVATION _____

TYPE FILTER PACK #1 GRADATION 20/40

FILTER PACK MANUFACTURER DSI

SCREEN MATERIAL SCH 40 P.V.C.

MANUFACTURER BOART LONGYEAR

SCREEN DIAMETER 2" SLOT SIZE 0.10

RISER MATERIAL SCH 40 P.V.C.

MANUFACTURER BOART LONGYEAR

RISER DIAMETER 2"

DRILLING TECHNIQUE Hollow Stem Auger

AUGER/RIT SIZE AND TYPE CME 4¼" ID HD

REMARKS Wet Sand

BENTONITE TYPE Pure Gold - med chips

MANUFACTURER cetco

CEMENT TYPE Sakrete

MANUFACTURER Southern Products + Silica

BOREHOLE DIAMETER 8"

LAW FIELD REPRESENTATIVE PAT KELLY

DRILLING CONTRACTOR LAW Engineering

AMOUNT BENTONITE USED (SEAL) 1 Bag - 1.5'

AMOUNT BENTONITE USED (GROUT) _____

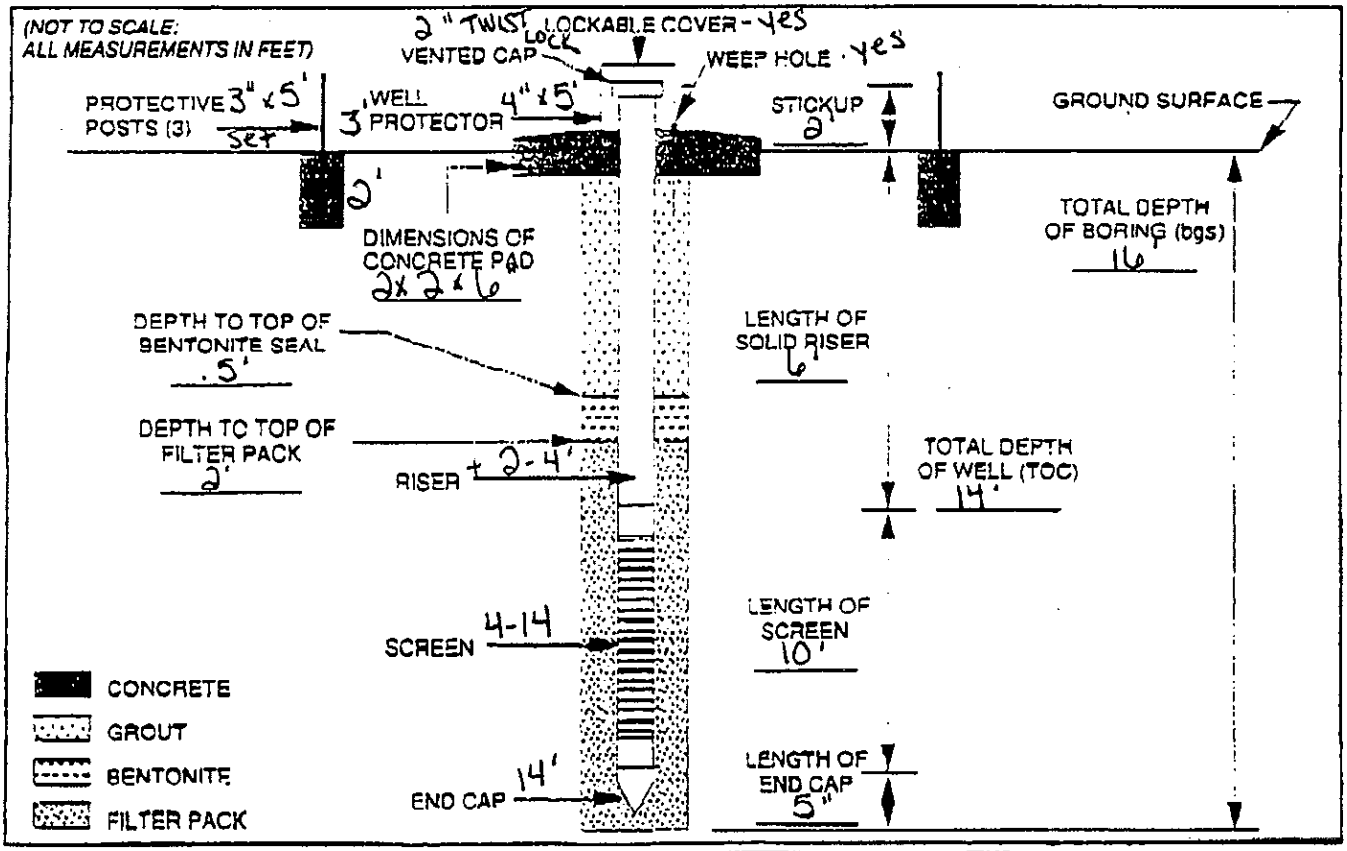
AMOUNT CEMENT (SAKRETE) USED (GROUT)* 3 - 80 lb. Bags

AMOUNT SAND USED 8 - 50 lb. Bags

STATIC WATER LEVEL (> 24 hrs. after dev.) _____

MEASURED ON (Date/Time) _____

* PAD to top bentonite seal using Sakrete



QA / QC DRILLER: Cody Presley INSPECTOR: _____

DISCREPANCIES: _____ CHECKED BY: _____ DATE: _____

Type II SU — Rev. 6/94

FIGURE B-2

TYPE II MONITORING WELL INSTALLATION DIAGRAM

PROJECT NAME Hunter Air Field PROJECT NO. 12001-9-0331

WELL NO. H.M.W-16 WELL LOCATION on site see map

DATE 7-28-99 Wed TIME 1 PM - 3:30 PM

GROUND SURFACE ELEVATION _____

TOP OF SCREEN ELEVATION 4' From surface

REFERENCE POINT ELEVATION _____

TYPE FILTER PACK #1 GRADATION 20/40

FILTER PACK MANUFACTURER DSI

SCREEN MATERIAL Sch 40 P.V.C.

MANUFACTURER BOART LONGYEAR

SCREEN DIAMETER 2" SLOT SIZE 0.10

RISER MATERIAL SCH 40 P.V.C.

MANUFACTURER BOART LONGYEAR

RISER DIAMETER 2"

DRILLING TECHNIQUE Hollow Stem Auger

AUGER/BIT SIZE AND TYPE CME 4¼" ID HD

REMARKS Wet Sand

BENTONITE TYPE Pure Gold - med chips

MANUFACTURER Cetco

CEMENT TYPE Sakrete

MANUFACTURER Southern Products + Silica

BOREHOLE DIAMETER 8"

LAW FIELD REPRESENTATIVE Pat Kelly

DRILLING CONTRACTOR LAW Engineering

AMOUNT BENTONITE USED (SEAL) 1 Bag - 1.5'

AMOUNT BENTONITE USED (GROUT) _____

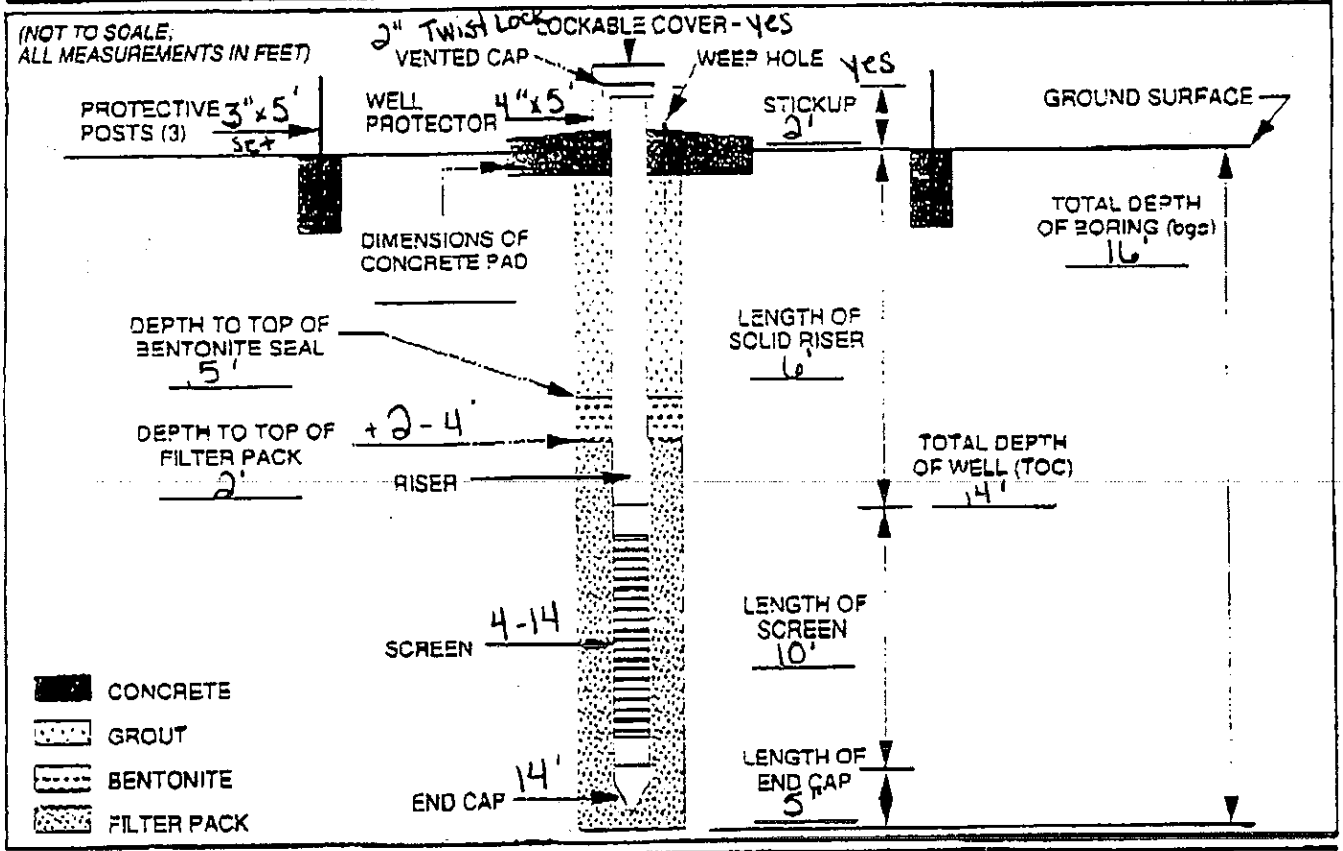
AMOUNT ~~CEMENT~~ Sakrete USED (GROUT) * 3-80 lb bag

AMOUNT SAND USED 8 - 50lb Bags

STATIC WATER LEVEL (> 24 hrs. after dev.) _____

MEASURED ON (Date/Time) _____

* pad to top of bentonite



QA / QC | DRILLER: Cody Presley INSPECTOR: _____

DISCREPANCIES: _____ CHECKED BY: _____ DATE: _____

Type II SU — Rev. 6/94

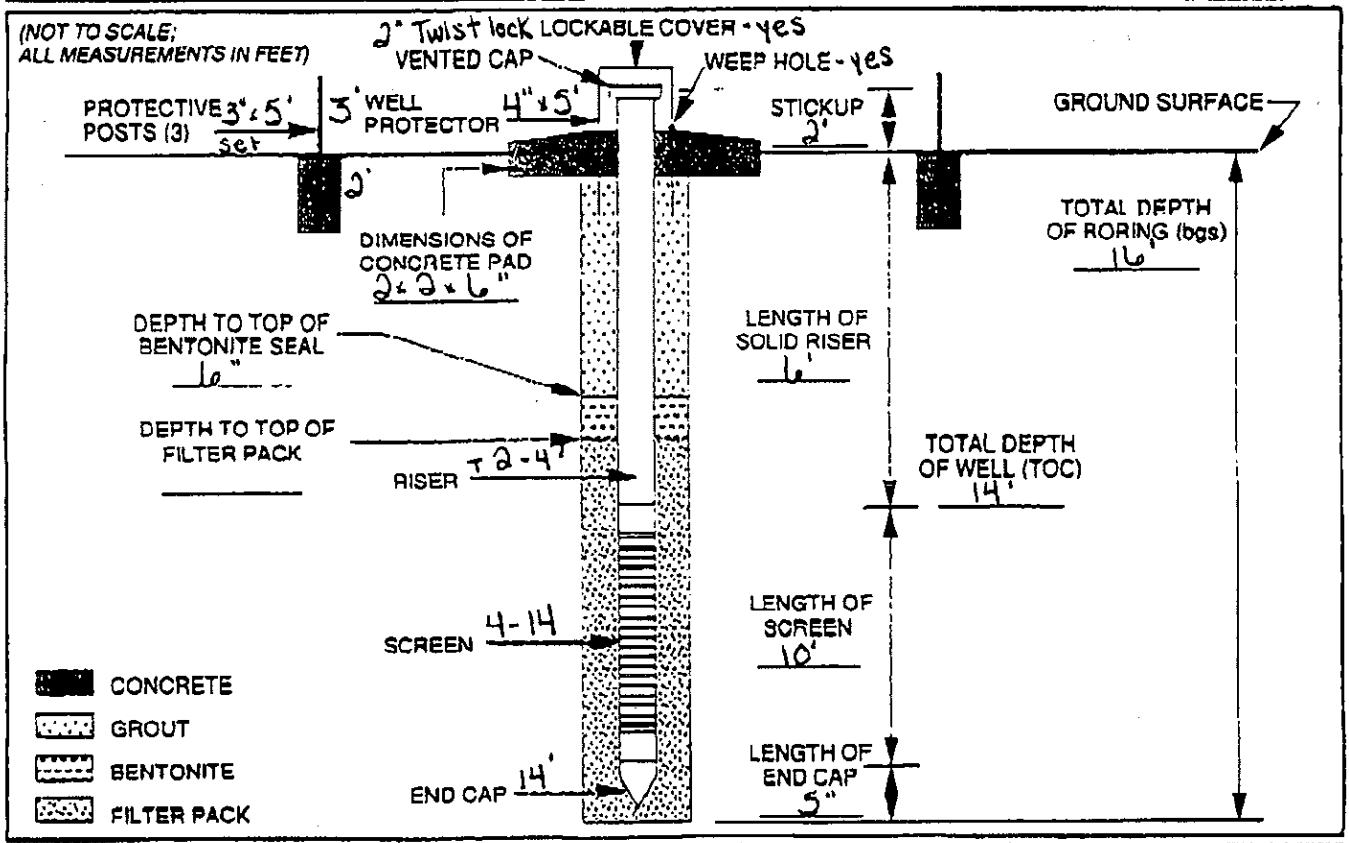
FIGURE B-2

TYPE II MONITORING WELL INSTALLATION DIAGRAM

PROJECT NAME Hunter Air Field PROJECT NO. 12001-9-0331
WELL NO. H.M.W - 17 WELL LOCATION on site see map
DATE 7-29-99 TIME 8 AM - 10 AM

GROUND SURFACE ELEVATION
TOP OF SCREEN ELEVATION
REFERENCE POINT ELEVATION
TYPE FILTER PACK # 1 GRADATION 20/40
FILTER PACK MANUFACTURER DSI
SCREEN MATERIAL SCH 40 P.V.C.
MANUFACTURER BOART LONGYEAR
SCREEN DIAMETER 2" SLOT SIZE 0.10
RISER MATERIAL SCH 40 P.V.C.
MANUFACTURER BOART LONGYEAR
RISER DIAMETER 2"
DRILLING TECHNIQUE Hollow Stem Auger
AUGER/BIT SIZE AND TYPE CME 4 1/4" ID HD
REMARKS Wet Sand

BENTONITE TYPE Pure Gold - med chips
MANUFACTURER Cetco
CEMENT TYPE Sakrete
MANUFACTURER Southern Products + Silica
BOREHOLE DIAMETER 8"
LAW FIELD REPRESENTATIVE Pat Kelly
DRILLING CONTRACTOR LAW Engineering
AMOUNT BENTONITE USED (SEAL) 1 Bag - 1.5'
AMOUNT BENTONITE USED (GROUT)
AMOUNT ~~CEMENT~~ Sakrete USED (GROUT)* 3 - 80 lb. bags
AMOUNT SAND USED 8 - 50 lb. Bags
STATIC WATER LEVEL (> 24 hrs. after dev.)
MEASURED ON (Date/Time)
* pad to top of bentonite seal using Sakrete



QA / QC	DRILLER: Cody Presley	INSPECTOR:
	DISCREPANCIES:	CHECKED BY: DATE:

Type II SU — Rev. 6/94

TYPE II MONITORING WELL INSTALLATION DIAGRAM

PROJECT NAME HUNTER AAF PROJECT NO. 12001-9-3411

WELL NO. HMW-18 WELL LOCATION Former Fire Training Area

DATE 1-8-00 TIME 9:40

GROUND SURFACE ELEVATION _____

TOP OF SCREEN ELEVATION _____

REFERENCE POINT ELEVATION _____

TYPE FILTER PACK 3/16 Sand GRADATION 30-65

FILTER PACK MANUFACTURER STANDARD

SCREEN MATERIAL PVC

MANUFACTURER U.S. FILTER

SCREEN DIAMETER 2" SLOT SIZE 0.06

RISER MATERIAL PVC

MANUFACTURER PLASTIC LUBE TEMP

RISER DIAMETER 2"

DRILLING TECHNIQUE HSA

AUGER/BIT SIZE AND TYPE 6 1/4" I.D. HSA

BENTONITE TYPE 3/8" CHIPS

MANUFACTURER DRY SHORELINE

CEMENT TYPE PORTLAND

MANUFACTURER _____

BOREHOLE DIAMETER ~9 - 9.5

LAW

FIELD REPRESENTATIVE T.M. KELLER

DRILLING CONTRACTOR LAW CHARLOTTE

AMOUNT BENTONITE USED (SEAL) ~12 lbs

AMOUNT BENTONITE USED (GROUT) ~3 lbs TMK

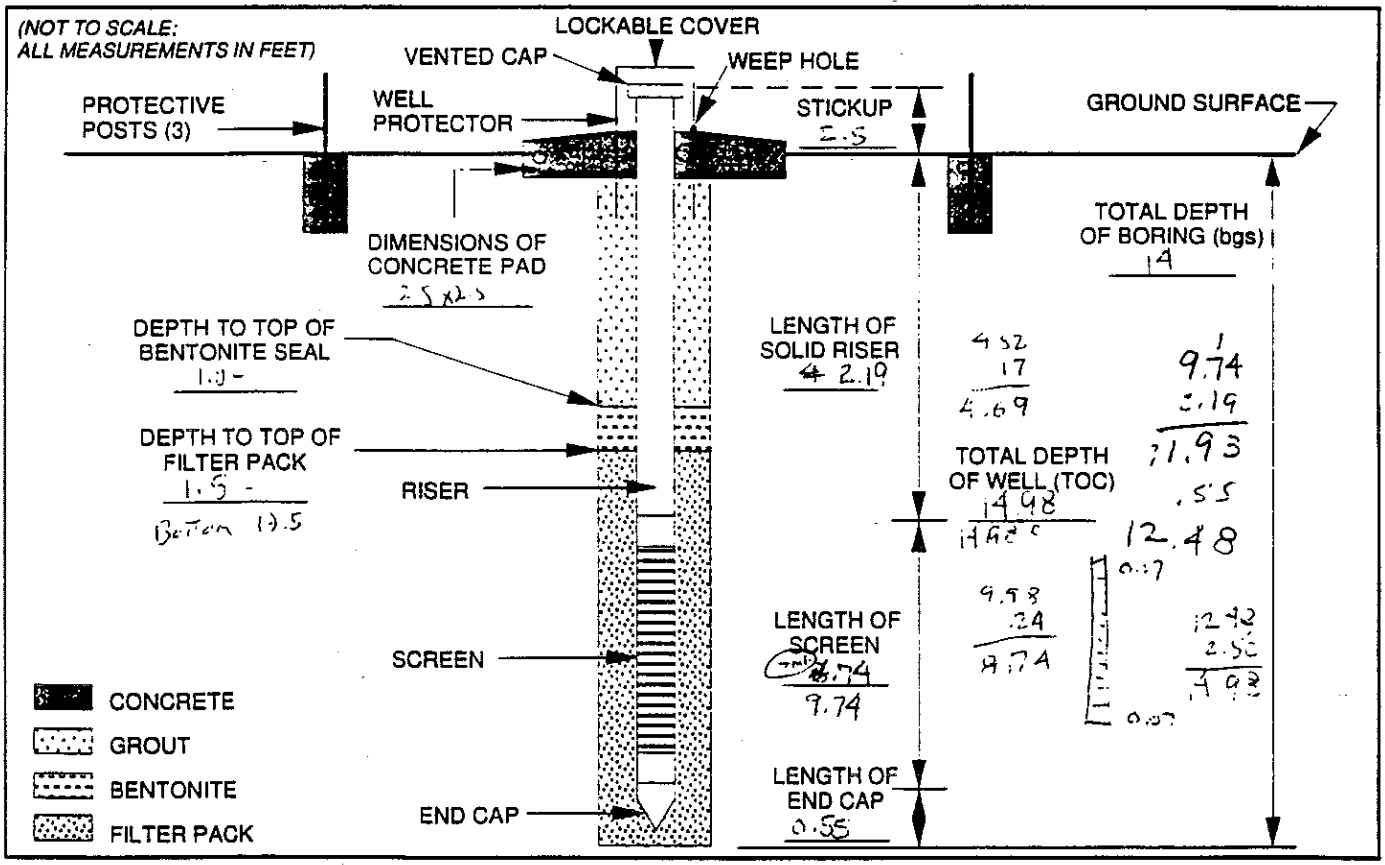
AMOUNT CEMENT USED (GROUT) ~50 lbs TMK

AMOUNT SAND USED 450 lbs

STATIC WATER LEVEL (> 24 hrs. after dev.) _____

MEASURED ON (Date/Time) _____

REMARKS _____



QA / QC

DRILLER: Cody Presley INSPECTOR: TM Keller

DISCREPANCIES: _____ CHECKED BY: _____ DATE: _____

Type II SU — Rev. 6/94

TYPE II MONITORING WELL INSTALLATION DIAGRAM

PROJECT NAME HUNTER AAF PROJECT NO. _____

WELL NO. SB-38/-0.38/HMW-19 WELL LOCATION _____

DATE 1-8-00 TIME _____

GROUND SURFACE ELEVATION _____

TOP OF SCREEN ELEVATION _____

REFERENCE POINT ELEVATION _____

TYPE FILTER PACK Silica Sand GRADATION 30-65

FILTER PACK MANUFACTURER STANDARD

SCREEN MATERIAL PVC

MANUFACTURER U.S. FILTER

SCREEN DIAMETER 2" SLOT SIZE 0.06

RISER MATERIAL PVC

MANUFACTURER BOART/LONGYEAR

RISER DIAMETER 2"

DRILLING TECHNIQUE HSA

AUGER/BIT SIZE AND TYPE _____

BENTONITE TYPE 3/8 CHIP SHUR-PLUG

MANUFACTURER DSI

CEMENT TYPE _____

MANUFACTURER _____

BOREHOLE DIAMETER 9 - 9.5

LAW

FIELD REPRESENTATIVE T.M. Keller

DRILLING CONTRACTOR LAW

AMOUNT BENTONITE USED (SEAL) 25 lbs

AMOUNT BENTONITE USED (GROUT) = 5 lbs (Final)

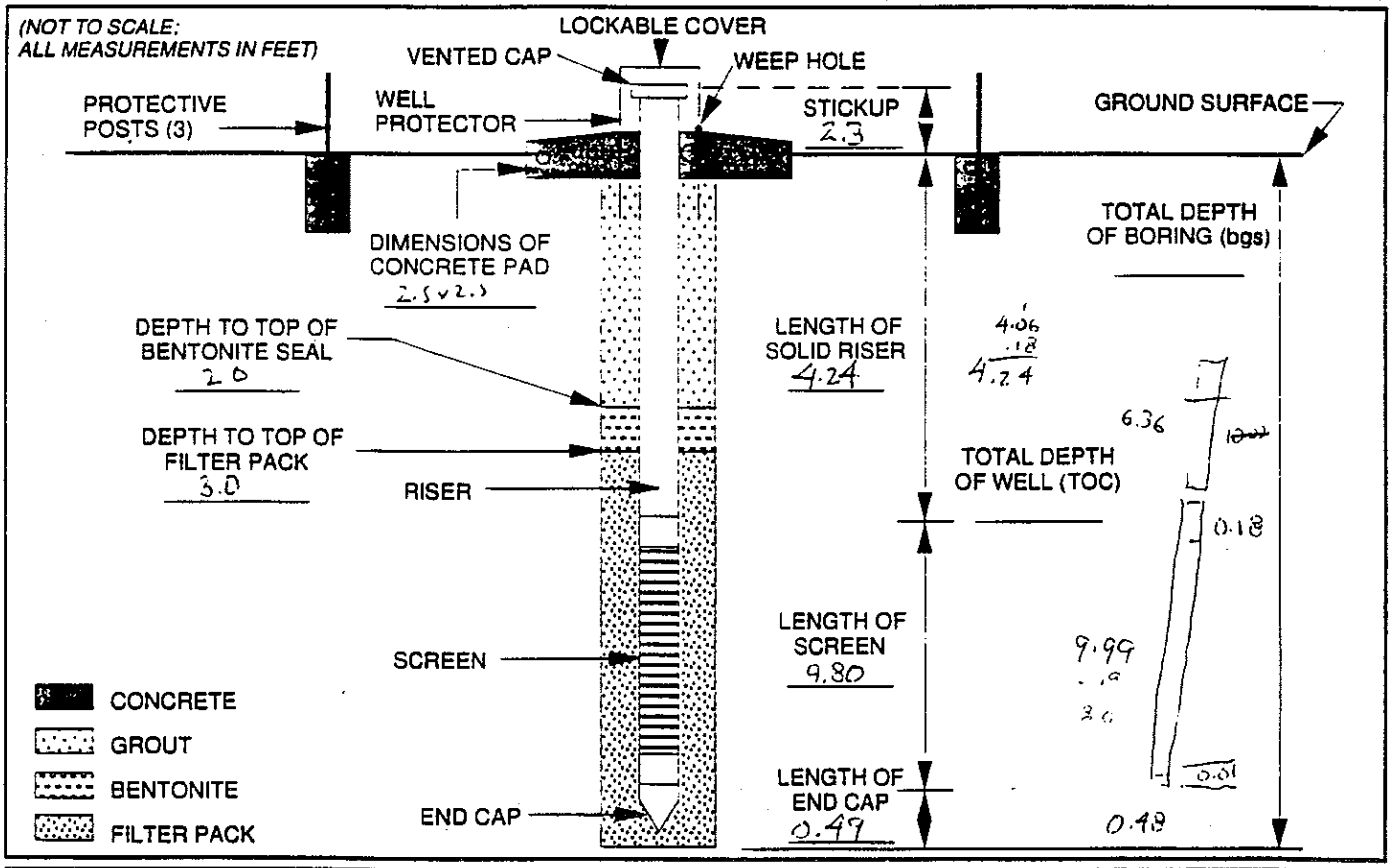
AMOUNT CEMENT USED (GROUT) = 190 lbs (Final)

AMOUNT SAND USED 500 lbs

STATIC WATER LEVEL (> 24 hrs. after dev.) _____

MEASURED ON (Date/Time) _____

REMARKS Added/Lost = 20 GALS WATER DURING CONSTRUCTION



QA / QC

DRILLER: Guy Presley INSPECTOR: T.M. Keller

DISCREPANCIES: _____ CHECKED BY: _____ DATE: _____

4.24 + 9.80 = 14.04

14.53 + 2.3 = 16.83

TYPE II MONITORING WELL INSTALLATION DIAGRAM

PROJECT NAME HUNTER AAF PROJECT NO. 12001-9-3411

WELL NO. HMW-20 WELL LOCATION FORMER FIRE TRAINING AREA

DATE 1-9-00 TIME 11:00

GROUND SURFACE ELEVATION _____

TOP OF SCREEN ELEVATION _____

REFERENCE POINT ELEVATION _____

TYPE FILTER PACK Silica Sand GRADATION 30-65

FILTER PACK MANUFACTURER STANDARD

SCREEN MATERIAL PVC

MANUFACTURER U.S. FILTER

SCREEN DIAMETER 2" SLOT SIZE 0.06

RISER MATERIAL PVC

MANUFACTURER BOART/LONGYEAR

RISER DIAMETER 2"

DRILLING TECHNIQUE HSA

AUGER/BIT SIZE AND TYPE 6.25"

BENTONITE TYPE 3/8" CHIP SHO-PLUG

MANUFACTURER DSI

CEMENT TYPE PORTLAND

MANUFACTURER GOOSA

BOREHOLE DIAMETER 9.5

LAW

FIELD REPRESENTATIVE T.M. KELLER

DRILLING CONTRACTOR LAW-CHARLOTTE

AMOUNT BENTONITE USED (SEAL) 12 FT

AMOUNT BENTONITE USED (GROUT) ± 2-3 lbs

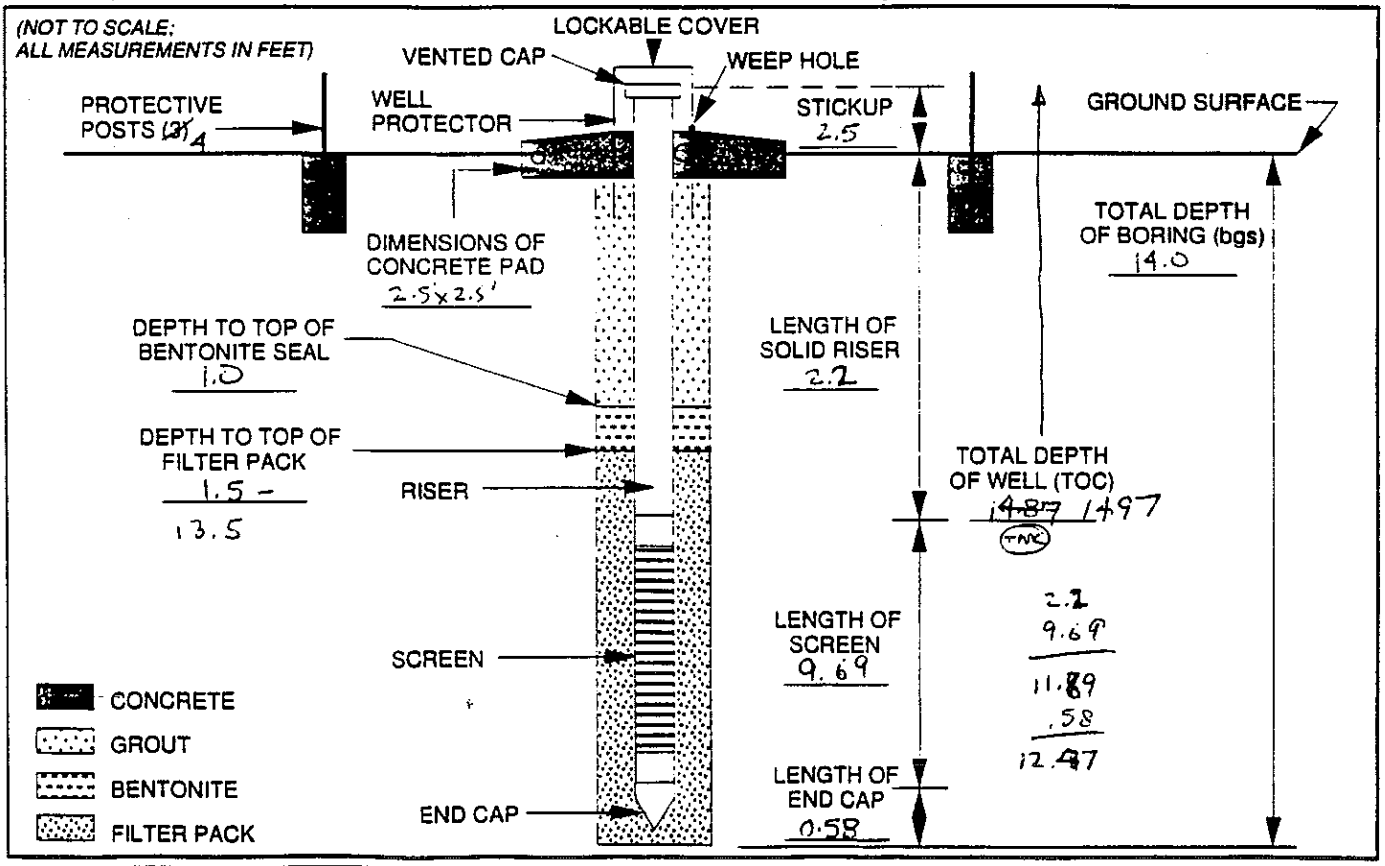
AMOUNT CEMENT USED (GROUT) ≈ 90

AMOUNT SAND USED 500 lbs

STATIC WATER LEVEL (> 24 hrs. after dev.) _____

MEASURED ON (Date/Time) _____

REMARKS USED 15 GALS WATER DURING CONSTRUTION



QA / QC

DRILLER: CODY REESLEY INSPECTOR: TM KELLER

DISCREPANCIES: _____ CHECKED BY: _____ DATE: _____

ATTACHMENT 5.1

HTW DRILLING LOG

HOLE No. SB-43A

1. COMPANY NAME: LAW
2. DRILLING SUBCONTRACTOR: LAW ENG. & ENV.
SHEET 1 OF 1 SHEETS
PROJECT: HUNTER AAF
4. LOCATION (CITY, STATE): SAVANNAH, GA
5. NAME OF DRILLER: JOHN MARTIN & GREG ORZECHOWSKI
6. MANUFACTURER'S DESIGNATION OF DRILL: NA
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3"-I.D. SS-HAND AUGER; SS-BOWL, SS-SPOON
9. HOLE LOCATION (SITE): FTA
10. SURFACE ELEVATION:
8. WEATHER: CLEAR, 60°s F
11. DATE STARTED: 11-5-01
12. DATE COMPLETED: 11-5-01
13. OVERBURDEN THICKNESS: NA
16. DEPTH GROUNDWATER ENCOUNTERED: NA
14. DEPTH DRILLED INTO ROCK: NA
17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA
15. TOTAL DEPTH OF HOLE: 2 ft bgs
18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA
19. GEOTECHNICAL SAMPLES (#): NO — DISTURBED: — — UNDISTURBED: —
20. TOTAL NUMBER OF CORE BOXES: —
21. SAMPLES FOR CHEMICAL ANALYSIS: VOC: X — METALS: — — OTHER (SPECIFY): — — OTHER (SPECIFY): — — OTHER (SPECIFY): —
22. TOTAL CORE RECOVERY%:
23. DISPOSITION OF HOLE: BACKFILLED: X — MONITORING WELL: — — OTHER (SPECIFY): —
24. SIGNATURE OF INSPECTOR:
25. CHECKED BY:
26. NAME OF INSPECTOR: JOHN D. MARTIN

LEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	1.0	VERY DARK GREYISH BROWN, FINE SAND, WITH HIGH O.M. CONTENT, 2.5Y 3/2 (SP)			SB-43A (0-2) VOCs		
	2.0	GRAY, FINE SAND, 2.5Y 5/1 (SP)					
		BT					
	3.0						
	4.0						

MRK FORM 55 JUN 89

PROJECT NAME & NO.: HUNTER AAF 12001-9-3411

HOLE No.: SB43A

HF — Rev. 5/9

D-140

HTW DRILLING LOG

HOLE No. SB-43

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Betts Environmental	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Jason Allwood	6. MANUFACTURER'S DESIGNATION OF DRILL: Ardeo Model L 4x4 (ATV)	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 6 1/4" HSA; 2-inch SS sampler	9. HOLE LOCATION (SITE): FTA	
	10. SURFACE ELEVATION	
8. WEATHER: Clear, <70°F	11. DATE STARTED: 11/1/01	12. DATE COMPLETED: 11/1/01
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 5 ft. bgs	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
15. TOTAL DEPTH OF HOLE: 14 ft. bgs	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
	-	-	-

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	X	Chromium	SVOCs	-	-	-

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
	-	X	-	

25. CHECKED BY:	26. NAME OF INSPECTOR
	John Martin

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		Very dark grayish-brown, fine SAND, with high organic matter content (SP) (2.5Y 3/2)					
	1.0		0.0		SB-43(0-2)	1-3-4-6	
-2.0	2.0	Gray, fine SAND from 2.0'-3.75' (SP) (2.5Y 5/1)					
	3.0		0.0		SB-43(2-4)	3-4-9-9	
-3.7		Very dark grayish-brown, fine SAND with SILT (SP-SM) (2.5Y 3/2)					
-4.0	4.0	Light gray, fine SAND with SILT (SP-SM) (2.5Y 7/2)					
			0.0			12-14-10-10	

A:\SB-43.PL3 TLC-1 11-26-01

HTW DRILLING LOG

HOLE No.	SB-43
PROJECT	Hunter AAF
INSPECTOR	John Martin
SHEET	2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
-5.0		Saturated at 5' bgs	0.0			12-14-10-10	
-6.0	6.0	Light gray fine silty SAND with some CLAY, wet (SP-SM) (2.5Y 5/1)					
	7.0		0.0			5-6-6-7	
	8.0						
	9.0		0.0			7-12-12-10	
	10.0						
	11.0		0.0			6-7-8-5	
	12.0	End of Sampling. Overdrilled to 14' bgs and set well at 12' bgs					
	13.0						

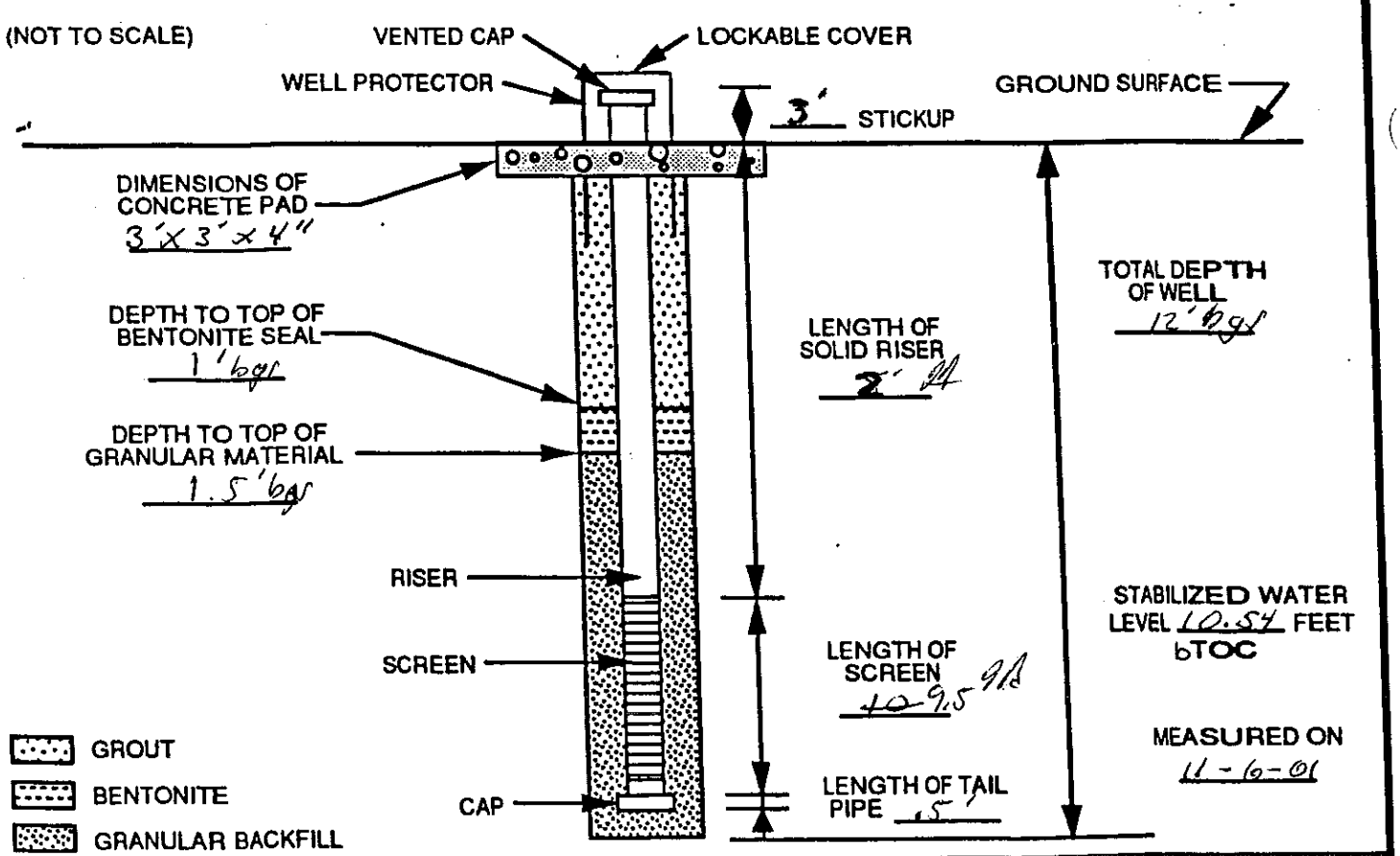
A:\SB-43.PL3 TLC-1 11-26-01

TYPE II MONITORING WELL INSTALLATION DIAGRAM

JOB NAME HUNTER AAF
WELL NO. AMW-21 JOB NO. 12000-9-3411
DATE 11-1-01 TIME 10:30
WELL LOCATION AMW SB-43

GROUND SURFACE ELEVATION 19.38 Ft AMSL
TOP OF SCREEN ELEVATION 17.38 Ft AMSL
REFERENCE POINT ELEVATION TOC = 22.28 Ft AMSL
TYPE SAND PACK QTZ SAND GRADATION 30/65
SAND PACK MANUFACTURER STANDARD SAND & SILICA CO.
SCREEN MATERIAL 2"-PVC
MANUFACTURER DIEDRICK DRILLING CORPORATION
RISER MATERIAL 2"-PVC
MANUFACTURER BOART LONGYEAR
RISER DIAMETER 2-INCH
DRILLING TECHNIQUE HOLLOW STEM AUGER
AUGER SIZE AND TYPE 6 1/4" I.D. / HSA

BENTONITE TYPE 3/8" PELLETS VOLCLAY / POLLGO 40
MANUFACTURER CETCO
CEMENT TYPE TYPE I PORTLAND CEMENT
MANUFACTURER FLORIDA ROCK
BOREHOLE DIAMETER ~12-INCHES
SCREEN DIAMETER 2-INCH SLOT SIZE .006
LAW ENVIRONMENTAL, INC.
FIELD REPRESENTATIVE JOHN MARTIN
DRILLING CONTRACTOR BETTS ENVIRONMENTAL
AMOUNT BENTONITE USED 1/2-5 gal PAILS
AMOUNT CEMENT USED 1-94lb bag / 4-80lb bags for Pad
AMOUNT SAND USED 11-50lb bags
STATIC WATER DEPTH (after dev.) 10.54 Ft bTOC



QA / QC

INSTALLED BY: BETTS ENVIRONMENTAL INSTALLATION OBSERVED BY: JOHN MARTIN
DISCREPANCIES: _____ CHECKED BY: _____ DATE: _____

HF MWID-II-5

D-143

HTW DRILLING LOG

HOLE No. SB-44

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Betts Environmental	SHEET 1 OF 2 SHEETS
3. PROJECT: Hunter AAF	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: Jason Allwood	6. MANUFACTURER'S DESIGNATION OF DRILL	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4 1/4" I.D. HSA; 2-inch SS sampler	9. HOLE LOCATION (SITE): FTA	
	10. SURFACE ELEVATION	
8. WEATHER: Clear, <60s°F	11. DATE STARTED: 11/1/01	12. DATE COMPLETED: 11/1/01
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
15. TOTAL DEPTH OF HOLE	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
	-	-	-

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	X	Chromium	SVOCs	-	-	-

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
	-	-	Grouted	

25. CHECKED BY:	26. NAME OF INSPECTOR
	John D. Martin

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		Dark grayish-brown, fine SAND (SP) (2.5Y 4/2)					
-0.6		Olive yellow, fine SAND (SP) (2.5Y 6/6)	0.0				
	1.0					9-10-17-20	
-2.0	2.0	Very dark gray, fine SAND (SP) (2.5Y 3/1)	0.0		SB-44(2-4) SB-44(2-4)DUP VOCs SVOCs Chromium		
	3.0					10-13-16-18	
-3.5		Gray, fine SAND (SP) (2.5Y 6/1)					
	4.0	No recovery (4'-6')				50/3	

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HTW DRILLING LOG

HOLE No. SB-44

PROJECT: Hunter AAF

INSPECTOR: John D. Martin

SHEET 2 OF 2 SHEETS

A:\SB-44.PL3 TLC-1 11-26-01

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
-6.0	6.0	Light olive brown, fine SAND (SP) (2.5Y 5/3)			SB-44(6-8) VOCs SVOCs Chromium		75% recovery
	7.0					21-25-23-6	
-8.0	8.0	Rotten wood, no soil, but saturated at 9.5'					
	9.0					2-3-4-1	50% recovery
-10.0	10.0	Boring terminated at 10.0 feet					
	11.0						
	12.0						
	13.0						

MRK FORM JUN 89 55-2

PROJECT NAME & NO. D-145

Hunter AAF 12001-9-3411

HOLE No. SB-44

HF - Rev. 4/94

HTW DRILLING LOG

HOLE No. SB-45

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering and Environmental Services, Inc.	SHEET 1 OF 1 SHEETS
3. PROJECT: Hunter AAF	4. LOCATION (CITY, STATE): Savannah, GA	
5. NAME OF DRILLER: John Martin & Greg Orzechowski	6. MANUFACTURER'S DESIGNATION OF DRILL: NA	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3-inch I.D. SS Hand Auger; SS-Bowl, SS-Spoon	9. HOLE LOCATION (SITE): FTA	
	10. SURFACE ELEVATION	
8. WEATHER: Clear, 60s°F	11. DATE STARTED: 10/31/01	12. DATE COMPLETED: 10/31/01
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: NA	
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
15. TOTAL DEPTH OF HOLE: 2 ft. bgs	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
	-	-	-

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	-	-	SVOCs	-	-	-

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
	X	-	-	

25. CHECKED BY:	26. NAME OF INSPECTOR
	John D. Martin

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		Fine SAND (with 0.5') dark grayish brown, with organic matter (SP) (2.5Y 4/2)			SB-45(0-2) SVOCs		
-0.8	1.0	Pale yellow fine SAND (SP) (2.5Y 7/4)					
-1.5		Fine SAND (SP) (2.5YR 7/2)					
-2.0	2.0	Boring terminated at 2.0 feet					
	3.0						
	4.0						

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HTW DRILLING LOG

HOLE No. SB-46

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Betts Environmental
SHEET 1 OF 3 SHEETS	
3. PROJECT: Hunter AAF	4. LOCATION (CITY, STATE): Savannah, GA
5. NAME OF DRILLER: Jason Allwood	6. MANUFACTURER'S DESIGNATION OF DRILL: Ardco Model L 4x4 (ATV)
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 6 1/4" HSA; 2-inch SS samplers	9. HOLE LOCATION (SITE): FTA
	10. SURFACE ELEVATION: -
8. WEATHER: Clear, windy, <70°F	11. DATE STARTED: 10/31/01 / 12. DATE COMPLETED: 10/31/01
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: 14 ft. bgs
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: -
15. TOTAL DEPTH OF HOLE: 23 ft. bgs	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): -

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
	-	-	-

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	X	Chromium	SVOCs	-	-	-

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
	-	X	-	

25. CHECKED BY:	26. NAME OF INSPECTOR
	John D. Martin

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		Very dark grayish-brown fine SAND, with organic matter, some SILT (SP) (10YR 4/2)					
-0.5		Brownish yellow fine SAND (SP) (10YR 6/6)	0.0				
-1.0	1.0	Brownish yellow fine SAND (SP) (10YR 6/6)				6-14-14-15	
-2.0	2.0	Dark brown 2'-2.5', fine SAND, (SP) (10YR 4/2, 10YR 7/3 (2.5-3'), 2.5Y 6/1 (3'-3.5), 2.5Y 7/3 (3.5'-4')	0.0				
	3.0					14-13-12-7	
-4.0	4.0	Pale yellow, mottled yellow and beige fine SAND (SP) (2.5Y 7/3)	0.0		SB-46(4-6)		VOCs, SVOCs, chromium

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HTW DRILLING LOG

HOLE No. SB-46

PROJECT: Hunter AAF

INSPECTOR: John D. Martin

SHEET 2 OF 3 SHEETS

A:\SB-46.PL3 TLC-1 11-26-01

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
						2-3-5-5	
-6.0	6.0	Pale yellow, fine SAND (SP) (2.5Y 8/2)					
	7.0		0.0			14-10-9-8	
		7.5-8' moist					
-8.0	8.0	Pale yellow, fine-medium SAND, pale yellow (SP) (2.5Y 7/2)					
-8.5		White CLAY, with red (ferric) staining, hand stiff CLAY (CL) (2.5Y 8/1)	0.0				
	9.0					14-15-17-10	
-10.0	10.0	White CLAY					
-11.0	11.0	Clayey SAND (SC) (2.5 Y 7/1)	0.0			7-8-12-14	
-12.0	12.0	Fine to medium white SAND (SP) (2.5Y 8/1)			SB-46(12-14)		VOCs, SVOCs, chromium
	13.0		0.0			7-8-10-13	
		Saturated, very moist					

HTW DRILLING LOG

HOLE No. SB-46

PROJECT: Hunter AAF

INSPECTOR: John D. Martin

SHEET 3 OF 3 SHEETS

A:\SB-46.PL3 TLC--1 11-26-01

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		Fine to medium white SAND (SP) (2.5Y 8/1)					
	15.0					6-6-11-11	
	16.0						
	17.0					7-8-12-14	
-18.0	18.0	Light brownish gray medium SAND (SP) (2.5Y 6/2)					
-19.0	19.0	Dark brown medium SAND (SP) (2.5Y 4/4)				4-5-7-9	
-20.0	20.0	Light olive brown medium SAND (SP) (2.5Y 5/4)					
-21.0	21.0	Dark brown medium SAND (SP) (2.5Y 4/4)				3-4-5-9	
	22.0						
-22.9		Boring terminated at 23.0 feet					

MRK FORM JUN 89 55-2

PROJECT NAME & NO. D-149

Hunter AAF
12001-9-3411

HOLE No. SB-46

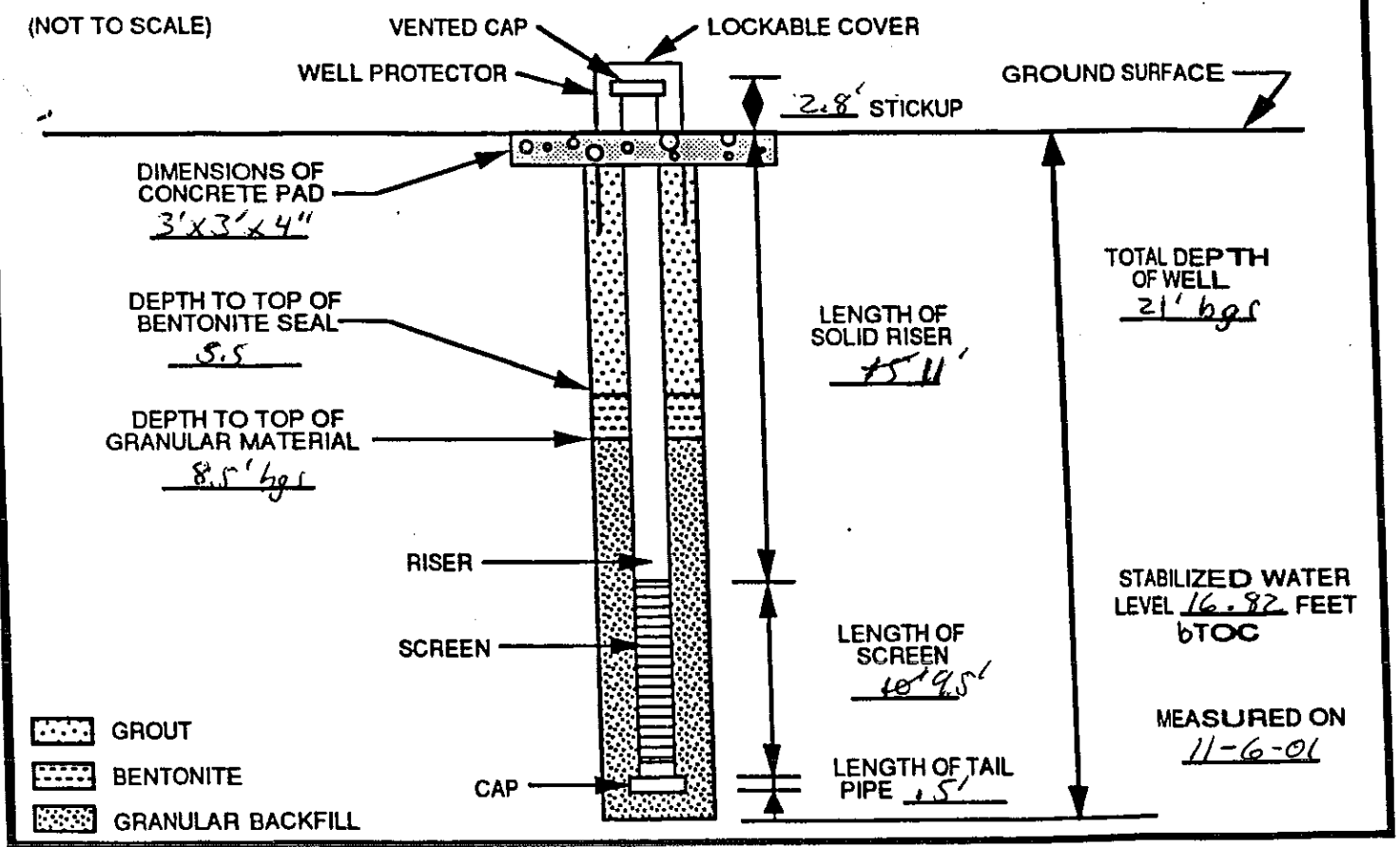
HF - Rev. 4/94

TYPE II MONITORING WELL INSTALLATION DIAGRAM

JOB NAME Hunter AAF
WELL NO. HMW 22 JOB NO. 12001-9-3411
DATE 11-1-01 TIME 7:35 AM
WELL LOCATION SB-46

GROUND SURFACE ELEVATION 35.45 ft AMSL
TOP OF SCREEN ELEVATION 24.45 ft AMSL
REFERENCE POINT ELEVATION TOC = 38.19ft AMSL
TYPE SAND PACK QTZ SAND GRADATION 30/65
SAND PACK MANUFACTURER STANDARD SAND & SILICA CO.
SCREEN MATERIAL PVC-2" MANUFACTURER BOART LONGYEAR
RISER MATERIAL PVC-2" MANUFACTURER DIAMOND DRILLING CORP.
RISER DIAMETER 2-INCH
DRILLING TECHNIQUE Hollow Stem Auger
AUGER SIZE AND TYPE 6 1/4" I.D. / HSA

BENTONITE TYPE 3/8" PELLET VOLCLAY / POLEHOLD
MANUFACTURER CETCO
CEMENT TYPE TYPE I PORTLAND CEMENT
MANUFACTURER FLORIDA ROCK
BOREHOLE DIAMETER ~12-INCHES
SCREEN DIAMETER 2-INCH SLOT SIZE .006
LAW ENVIRONMENTAL, INC.
FIELD REPRESENTATIVE JOHN MARTIN
DRILLING CONTRACTOR BETTS ENVIRONMENTAL
AMOUNT BENTONITE USED 2-5gal BUCKETS
AMOUNT CEMENT USED 2-94lb bags / 4-80lb bags/Pad
AMOUNT SAND USED 10-50-lb bags
STATIC WATER DEPTH (after dev.) 16.82 ft bTOC



QA / QC

INSTALLED BY: BETTS ENVIRONMENTAL INSTALLATION OBSERVED BY: JOHN MARTIN
DISCREPANCIES: _____ CHECKED BY: _____ DATE: _____

HF MWID-II-5

D-150

HTW DRILLING LOG

HOLE No. SB-47

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering and Environmental Services, Inc.
SHEET 1 OF 1 SHEETS	
3. PROJECT: Hunter AAF	4. LOCATION (CITY, STATE): Savannah, GA
5. NAME OF DRILLER: John Martin & Greg Orzechowski	6. MANUFACTURER'S DESIGNATION OF DRILL: SS 3" ID Hand Auger Bucket
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3" ID SS Hand Auger; SS Bowl & Spoons	9. HOLE LOCATION (SITE): FTA
	10. SURFACE ELEVATION:
8. WEATHER: Clear, 60s°	11. DATE STARTED: 10/31/01 — 12. DATE COMPLETED: 10/31/01
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: NA
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA
15. TOTAL DEPTH OF HOLE: 4 ft. bgs	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
	-	-	-

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	-	Barium	-	-	-	-

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
	X	-	-	

25. CHECKED BY:	26. NAME OF INSPECTOR
	John D. Martin

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		Very dark gray fine SAND with organic matter, and lots of pebble/gravel sized pieces of black "tar sand rocks" (SP) (10YR 3/1)					
-2.0	2.0	Dark brown fine SAND with some "tar sand rocks" (SP) (10YR 4/3)			SB-47(2-4) Barium		
-3.0	3.0	Black fine SAND (SP) (10YR 2/1)					
-4.0	4.0	Boring terminated at 4.0 feet					

A:\SB-47.PL3 TLC-1 11-26-01

MRK FORM JUN 89 55

PROJECT NAME & NO. Hunter AAF 12001-9-3411

D-151

HOLE No. SB-47

HF - Rev. 4/94

HTW DRILLING LOG

HOLE No. SB-48

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering and Environmental Services, Inc.
SHEET 1 OF 1 SHEETS	
3. PROJECT: Hunter AAF	4. LOCATION (CITY, STATE): Savannah, GA
5. NAME OF DRILLER: John Martin & Greg Orzechowski	6. MANUFACTURER'S DESIGNATION OF DRILL: 3" I.D. SS Hand Auger
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: SS Bowl and Spoon	9. HOLE LOCATION (SITE): FTA
	10. SURFACE ELEVATION:
8. WEATHER: Clear, 60s°	11. DATE STARTED: 10/31/01 — 12. DATE COMPLETED: 10/31/01
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: NA
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA
15. TOTAL DEPTH OF HOLE: 5 ft. bgs	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
	-	-	-

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	-	Chromium	-	-	-	-

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
	X	-	-	

25. CHECKED BY:	26. NAME OF INSPECTOR: John D. Martin

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		Black fine SAND with organic matter, 0-6" (SP) (2.5YR 2.5/1)					
-0.5							
		Very dark, same as above without organic matter, gray 0-2" (SP) (2.5YR 3/1)					
	1.0						
-2.0	2.0	Dark brown, medium-fine SAND (SP) (10YR 4/3)			SB-48(2-5)		Chromium 2'-5'
	3.0						
-3.5		Yellowish brown, medium-fine SAND (SP) (3.5'-4.0') (10YR 5/6)					
-4.0	4.0	Light Yellow-brown, medium-fine SAND (SP) (10YR 6/4)					
-4.8		Boring terminated at 5.0 feet					

A:\SB-48.PL3 TLC-1 11-

MRK FORM JUN 89 55

PROJECT NAME & NO.: D-152 — Hunter AAF 12001-9-3411

HOLE No. SB-48

HF - Rev. 4/94

HTW DRILLING LOG

HOLE No. SB-49

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering and Environmental Services, Inc.
SHEET 1 OF 1 SHEETS	
3. PROJECT: Hunter AAF	4. LOCATION (CITY, STATE): Savannah, GA
5. NAME OF DRILLER: John Martin & Greg Orzechowski	6. MANUFACTURER'S DESIGNATION OF DRILL: 3" I.D. SS Hand Auger
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: SS Bowl and Spoon	9. HOLE LOCATION (SITE): FTA
	10. SURFACE ELEVATION:
8. WEATHER: Clear, 60s°	11. DATE STARTED: 10/31/01 / 12. DATE COMPLETED: 10/31/01
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: NA
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA
15. TOTAL DEPTH OF HOLE: 2 ft. bgs	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
	-	-	-

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	-	-	SVOCs	-	-	-

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
	X	-	-	

25. CHECKED BY:	26. NAME OF INSPECTOR
	John D. Martin

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		Light olive brown, fine SAND with organic matter (SP) (2.5Y 5/4)					
-0.5		Light yellowish brown, fine SAND (SP) (2.5Y 6/4)					
-1.0	1.0	Gray fine SAND (SP) (2.5Y 5/1)			SB-49(0-2)		SVOCs
-1.5		Olive yellow fine SAND (SP) (2.5Y 6/6)					
-2.0	2.0	Boring terminated at 2.0 feet					
	3.0						
	4.0						

A:\SB-49.PL3 TLC-1 11-30-01

MRK FORM JUN 89 55

PROJECT NAME & NO. D-153 — Hunter AAF 12001-9-3411

HOLE No. SB-49

HF - Rev. 4/94

HTW DRILLING LOG

HOLE No. SB-50

1. COMPANY NAME: Law Engineering and Environmental Services, Inc.	2. DRILLING SUBCONTRACTOR: Law Engineering and Environmental Services, Inc.
SHEET 1 OF 1 SHEETS	
3. PROJECT: Hunter AAF	4. LOCATION (CITY, STATE): Savannah, GA
5. NAME OF DRILLER: John Martin & Greg Orzechowski	6. MANUFACTURER'S DESIGNATION OF DRILL: 3" I.D. SS Hand Auger
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: SS Bowl and Spoon	9. HOLE LOCATION (SITE): FTA
	10. SURFACE ELEVATION:
8. WEATHER: Clear, 60s°	11. DATE STARTED: 10/31/01 — 12. DATE COMPLETED: 10/31/01
13. OVERBURDEN THICKNESS: NA	16. DEPTH GROUNDWATER ENCOUNTERED: NA
14. DEPTH DRILLED INTO ROCK: NA	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA
15. TOTAL DEPTH OF HOLE: 2 ft. bgs	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
	-	-	-

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
	-	-	SVOCs	-	-	-

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
	X	-	-	

25. CHECKED BY:	26. NAME OF INSPECTOR
	John D. Martin

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		Light brownish/gray, very fine to fine, well sorted SAND with SILT with grass roots and some organic matter (SP) (2.5Y 5/3)					
	1.0				SB-50(0-2)		SVOCs
-1.5		Very dark gray, very fine to fine well sorted SAND with SILT (SP) (2.5Y 3/1)					
-2.0	2.0	Boring terminated at 2.0 feet					
	3.0						
	4.0						

A:\SB-50.PL3 TLC-1 11:

APPENDIX E

Hydraulic Conductivity Calculations

Environmental Science & Engineering, Inc.
P.O. Box 1703 Gainesville, Florida 32602-1703
904-332-3318 Fax 904-332-0507

HUNTER
JOB 3912015G-0100-3130
SHEET NO. 1 OF
CALCULATED BY G Wise DATE 8/7/92
CHECKED BY DATE
SCALE

Purpose: Calculate groundwater velocities from available slug test data and piezometric surface elevation data.

Reference: Peck, Hanson, & Thornburn, 1974

Calculation: Linear groundwater flow velocity.

I = gradient

K = hydraulic conductivity

n = porosity (assumed to be 30%)

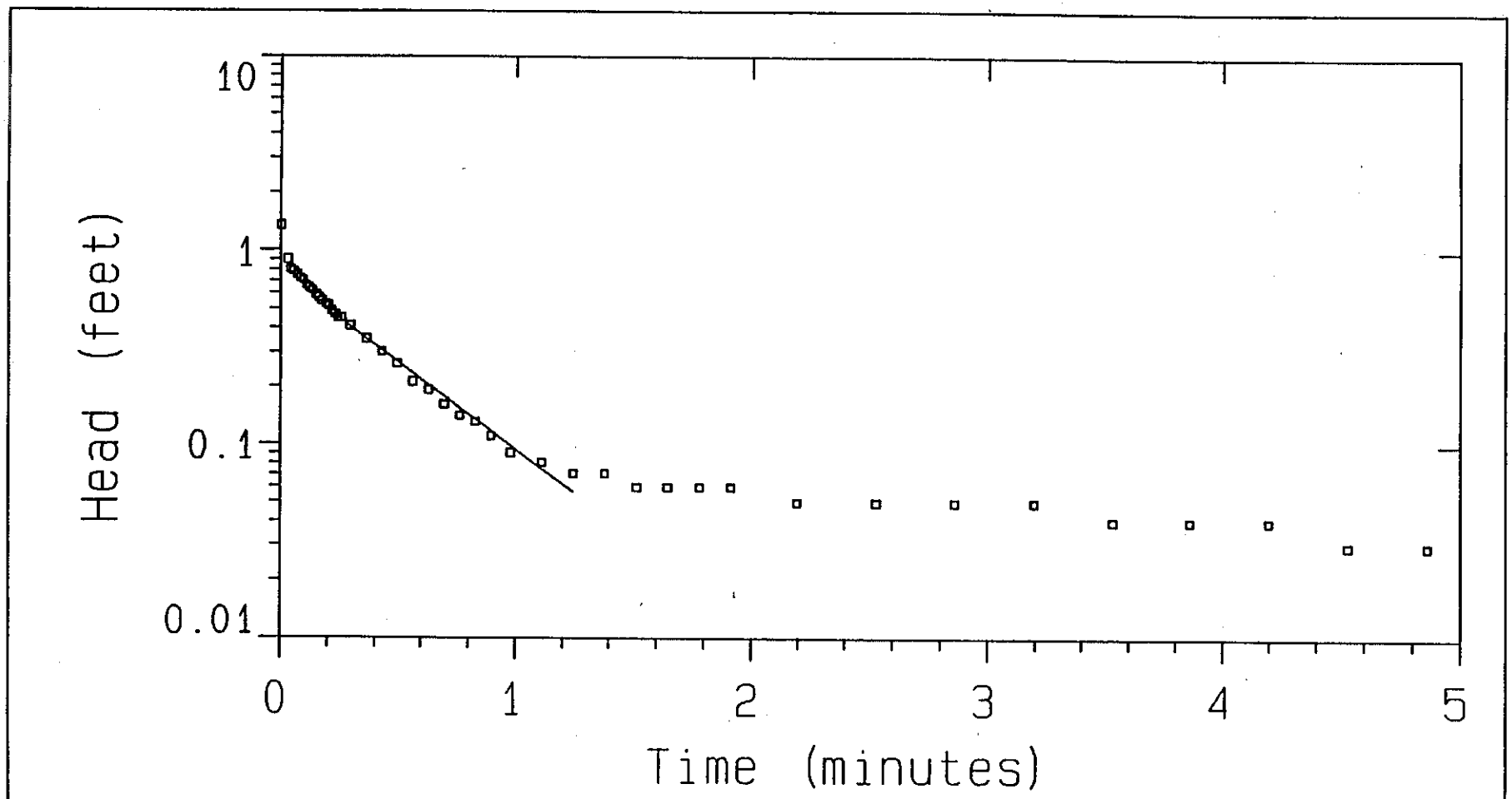
V = linear flow velocity

$$V = KI/n$$

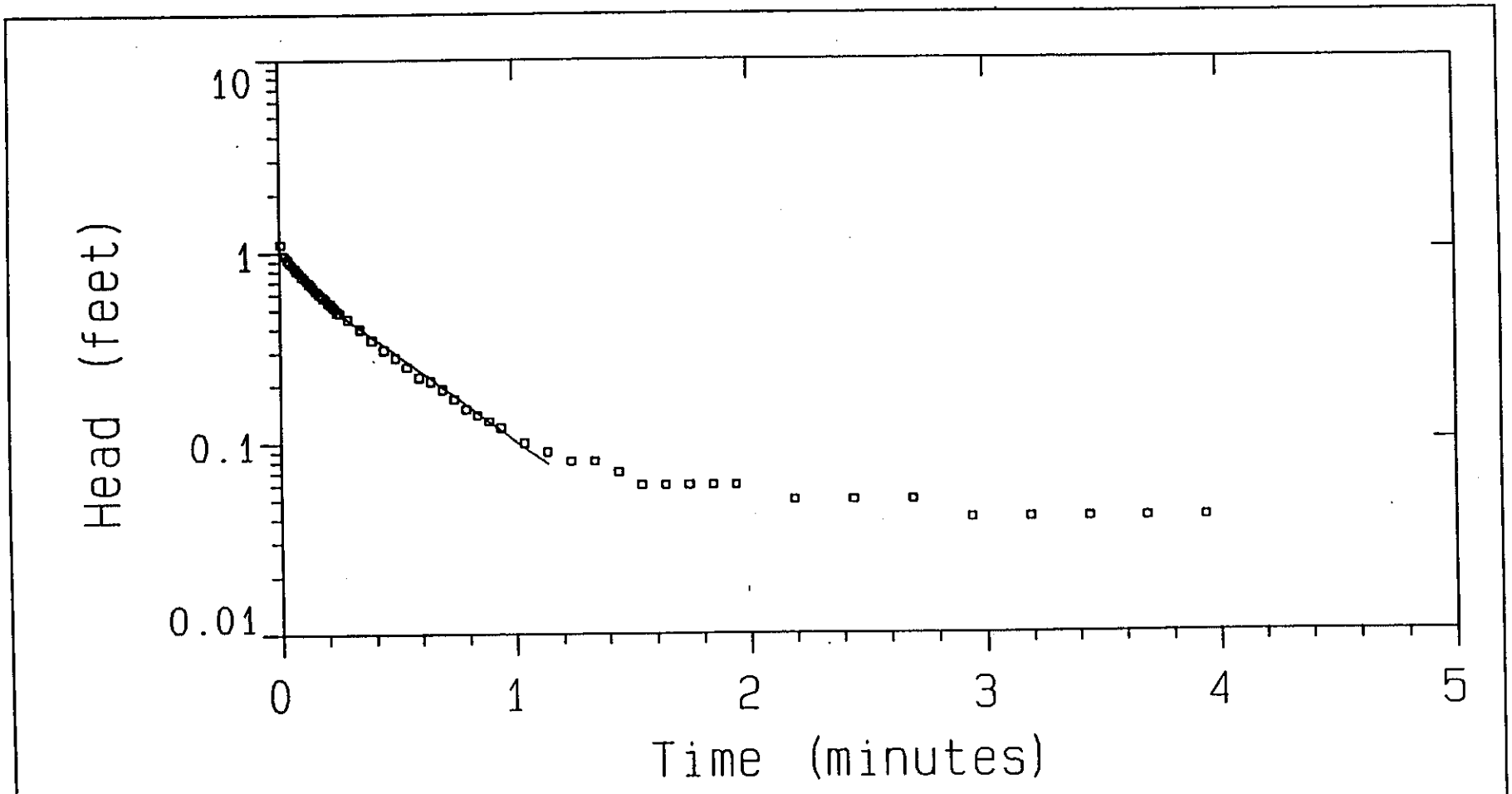
$$V\ (ft/min) \times 60\ min/hr \times 24\ hr/day \times 365\ day/yr \equiv ft/yr$$

WELL NO.	I (ft/ft)	K (ft/min)	V (ft/min)	V (ft/yr)
HMW-4 (shallow)	0.0097 (low)	0.00111 (low)	3.6×10^{-5}	18.8
	0.0154 (avg)	0.00133 (avg)	6.8×10^{-5}	35.9
	0.0187 (high)	0.00155 (high)	9.7×10^{-5}	50.7
HMW-3 (deep)	0.0097 (low)	0.00169 (low)	5.5×10^{-5}	28.7
	0.0119 (avg)	0.00177 (avg)	7.0×10^{-5}	36.8
	0.0131 (high)	0.00184 (high)	8.0×10^{-5}	42.2

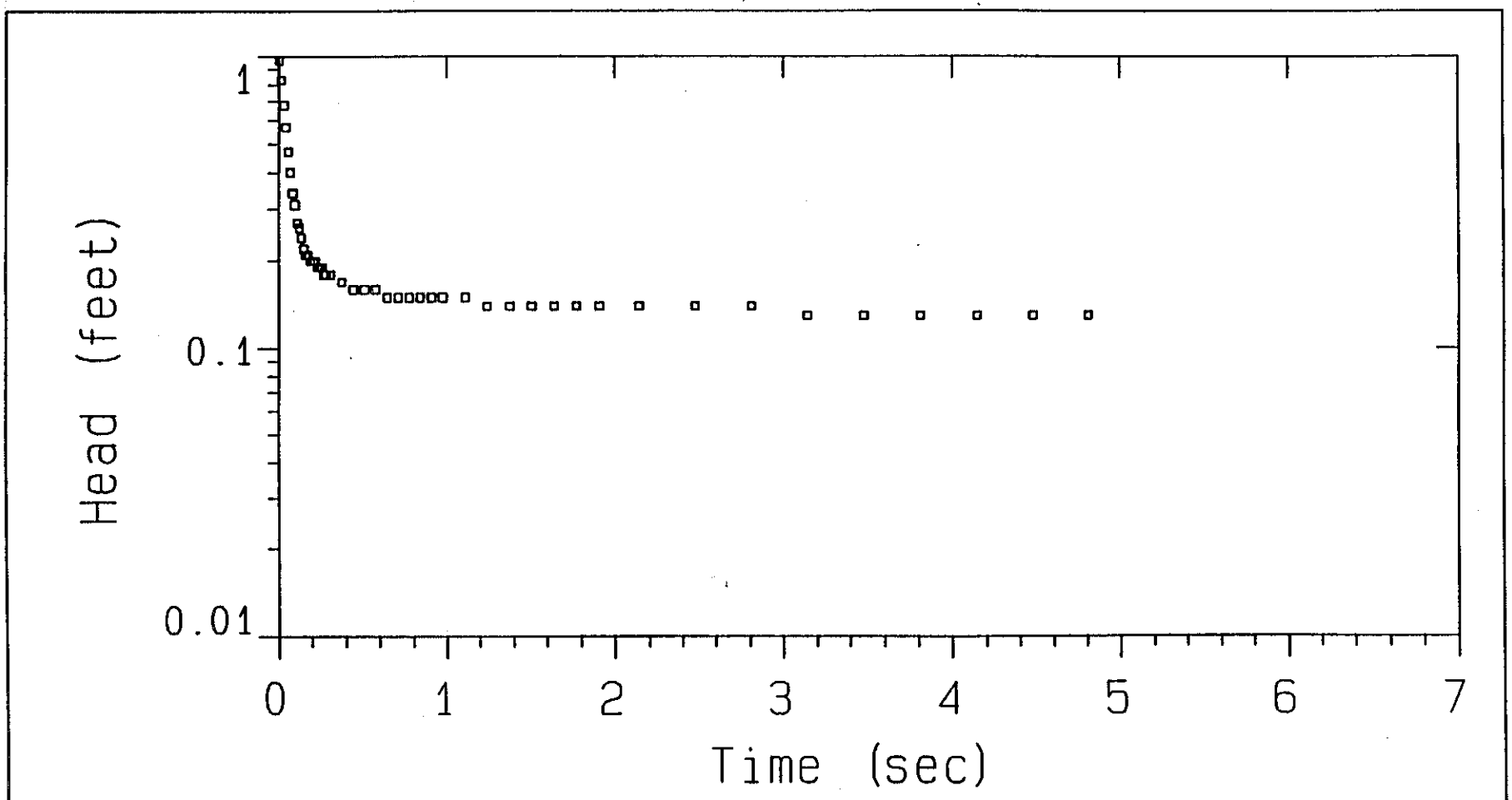
ESE - 38362



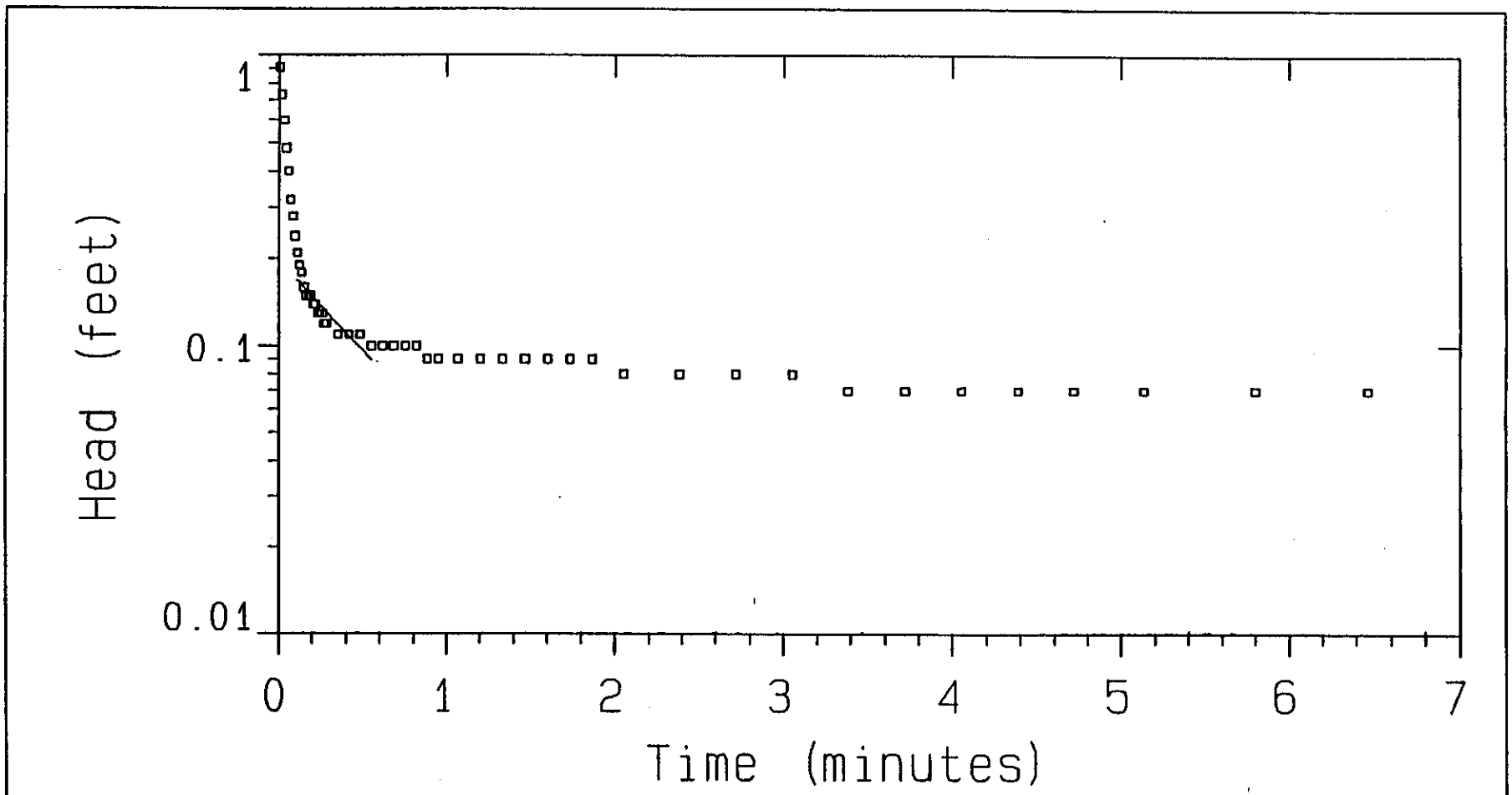
MODEL TYPE: BOUWER and RICE	for: U.S. Army Corps of Engineers	Slug Test Data (Slug-In)
CONDUCTIVITY: .001840 ft/min	by: Environmental Science & Engineering	
TRANSMISSIVITY: .07768 sq. ft/min	WELL DATA: Units: ft	Well: HMW-3
INITIAL HEAD: 1.340 ft	AQUIFER: Water Table	Hunter A.A.F.
Data Set: HMW3-1I | Date: 08/06/92	THICKNESS: 42.20	Savannah, GA
	SCREEN: top: 39.00 base: 49.00	
	DIAMETER: casing: 4666 intake: 1.708	
	DEPTH: Water Tat 9.300 TD: 49.00	



MODEL TYPE: BOUWER and RICE	for: U.S. Army Corps of Engineers	Slug Test Data (Slug-Out)
CONDUCTIVITY: .001691 ft/min	by: Environmental Science & Engineering	Well: HMW-3
TRANSMISSIVITY: .07137 sq. ft/min	WELL DATA: Units: ft	Hunter A.A.F.
INITIAL HEAD: 1.110 ft	AQUIFER: Water Table	Savannah, GA
Data Set: HMW3-10 / Date: 08/06/92	THICKNESS: 42.20	
	SCREEN: top: 39.00 base: 49.00	
	DIAMETER: casing: .1666 intake: 1.708	
	DEPTH: Water Table: 9.300 TD: 49.00	



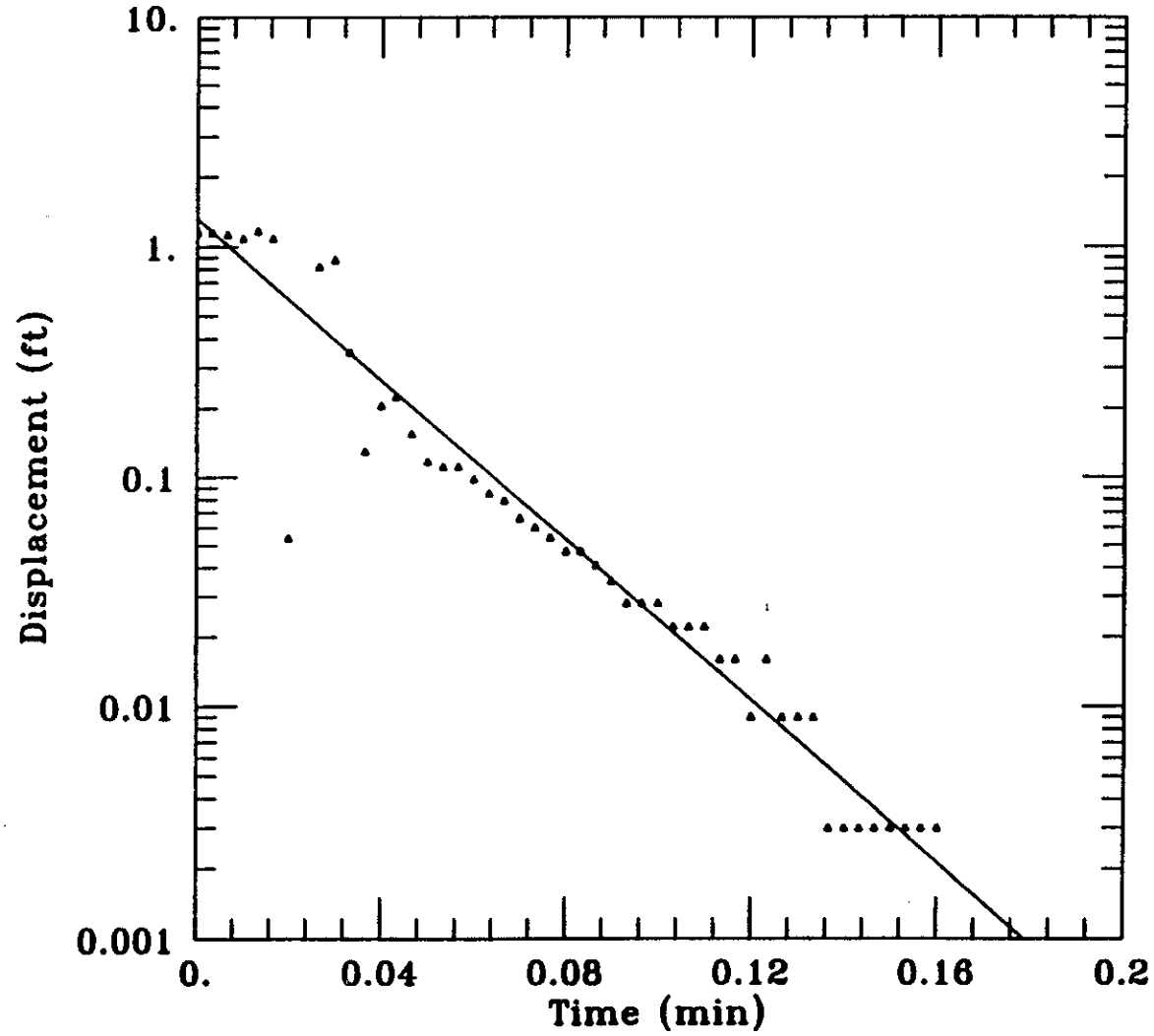
MODEL TYPE: BOUWER and RICE	for: U.S. Army Corps of Engineers	Slug Test Data (Slug-Out)
CONDUCTIVITY: .001110 ft/min	by: Environmental Science & Engineering	
TRANSMISSIVITY: .006859 sq. ft/min	WELL DATA: Units: ft	Well: HMW-4
INITIAL HEAD: .9700 ft	AQUIFER: Water Table	Hunter A.A.F.
ata Set: HMW4-10 / Date: 08/06/92	THICKNESS: 6.180	Savannah,
	SCREEN: top: 3.000 base: 13.00	
	DIAMETER: casin 1666 intake: 1.708	
	DEPTH: Water Ta 9.320 TD: 13.00	



MODEL TYPE: BOUWER and RICE		for: U.S. Army Corps of Engineers	Slug Test Data (Slug-Out)
CONDUCTIVITY: .001546 ft/min		by: Environmental Science & Engineering	
TRANSMISSIVITY: .009556 sq. ft/min		WELL DATA: Units: ft	Well: HMW-4
INITIAL HEAD: .9100 ft		AQUIFER: Water Table	Hunter A.A.F.
Data Set: HMW4-20	Date: 08/06/92	THICKNESS: 6.180	Savannah, GA
		SCREEN: top: 3.000 base: 13.00	
		DIAMETER: casing: .1666 intake: 1.708	
		DEPTH: Water Table: 9.320 TD: 13.00	

Client: ARMY CORPS OF ENGINEERS	Company: LAW ENG. & ENV. SVCS INC.
Location: SAVANNAH GA	Project: 11-3551-0320

HUNTER ARMY AIRFIELD



DATA SET:
HMW10-I.DAT
11/30/95

AQUIFER MODEL:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

PROJECT DATA:
test date: 10/10/95
test well: HMW-10, IN

TEST DATA:
H0 = 1.156 ft
rc = 0.08333 ft
rw = 0.3438 ft
L = 8.08 ft
b = 8.08 ft
H = 7.63 ft

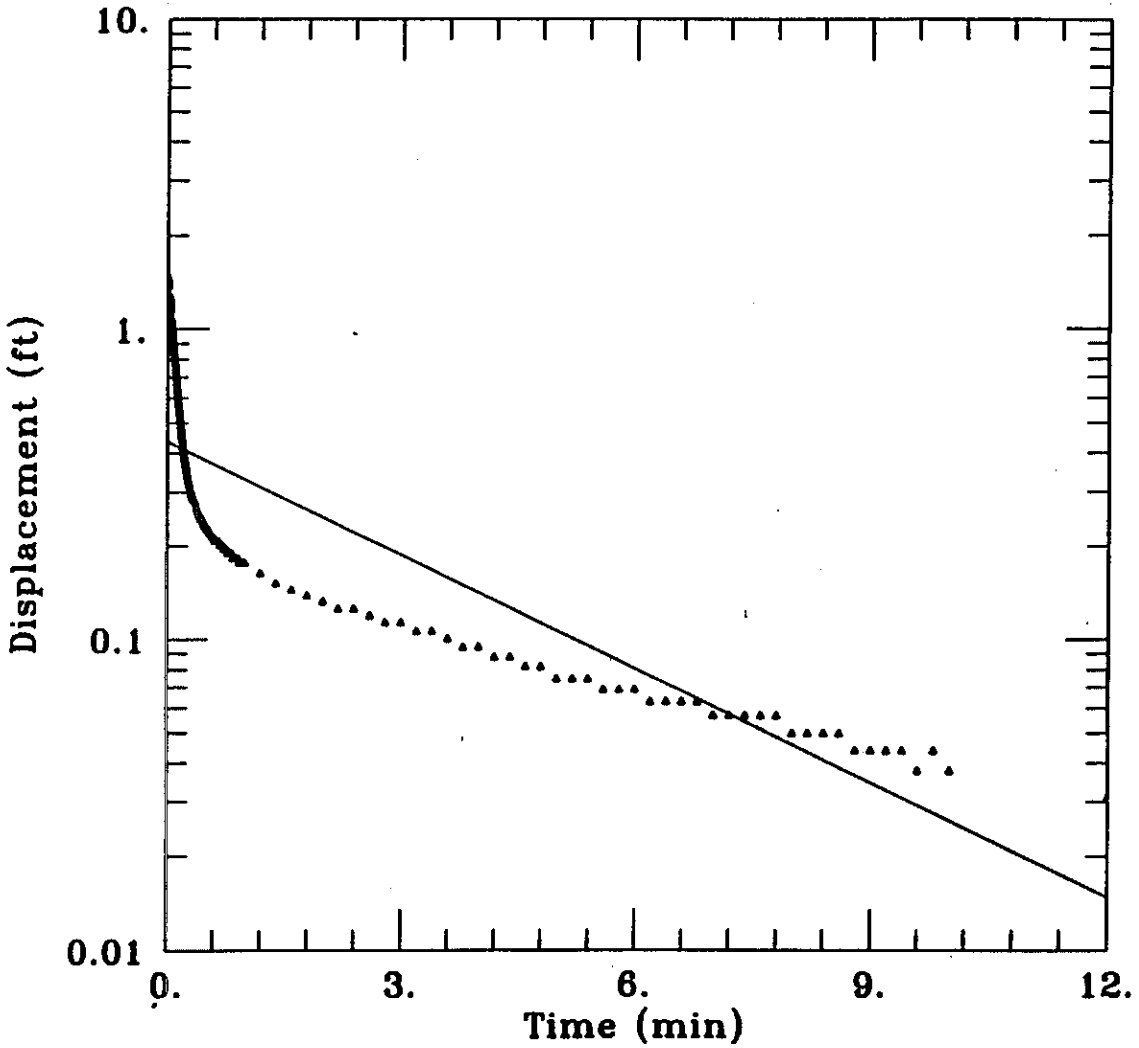
PARAMETER ESTIMATES:
K = 0.19 ft/min
y0 = 1.319 ft

AQTESOL

11/30/95

Client: **ARMY CORPS OF ENGINEERS**	Company: **LAW ENG & ENV SVCS INC**
Location: **SAVANNAH, GA**	Project: **11-3551-0320**

HUNTER ARMY AIRFIELD



DATA SET:
HMW10-0.DAT
12/19/95

AQUIFER MODEL:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

PROJECT DATA:
test date: 10/10/95
test well: HMW-10, OUT

TEST DATA:
H0 = 1.475 ft
rc = 0.08333 ft
rw = 0.3438 ft
L = 8.08 ft
b = 8.08 ft
H = 7.63 ft

PARAMETER ESTIMATES:
K = 0.001334 ft/min
y0 = 0.4367 ft

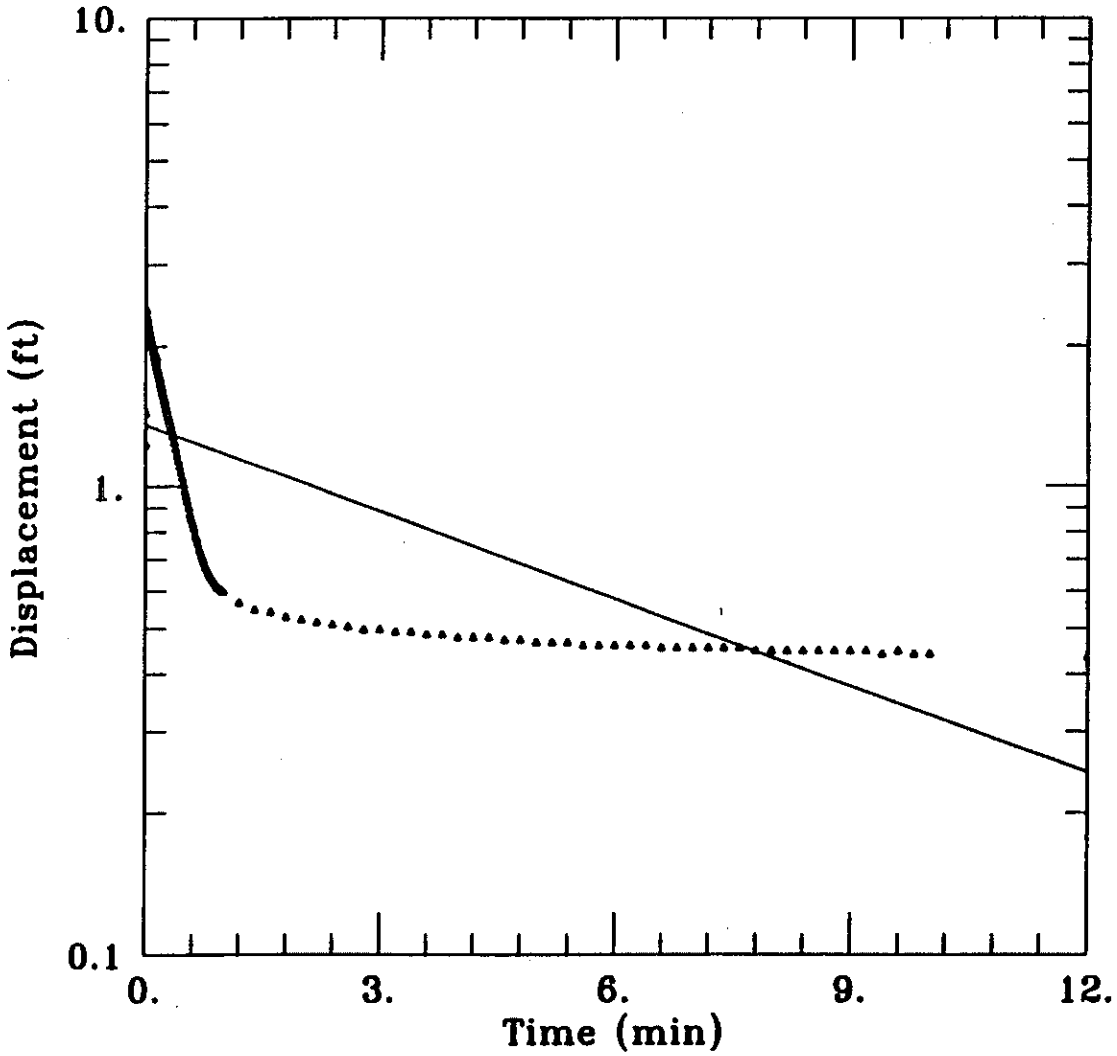
AQTESOL

JCH 12/19/95

E-7

Client: ARMY CORPS OF ENGINEERS	Company: LAW ENG & ENV SVCS INC
Location: SAVANNAH GA	Project: 11-3551-0320

HUNTER ARMY AIRFIELD



DATA SET:
HMW11-0.DAT
12/19/95

AQUIFER MODEL:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

PROJECT DATA:
test date: 10/09/95
test well: HMW-11. OUT

TEST DATA:
H0 = 2.404 ft
rc = 0.08333 ft
rw = 0.3438 ft
L = 6.43 ft
b = 15. ft
H = 11.21 ft

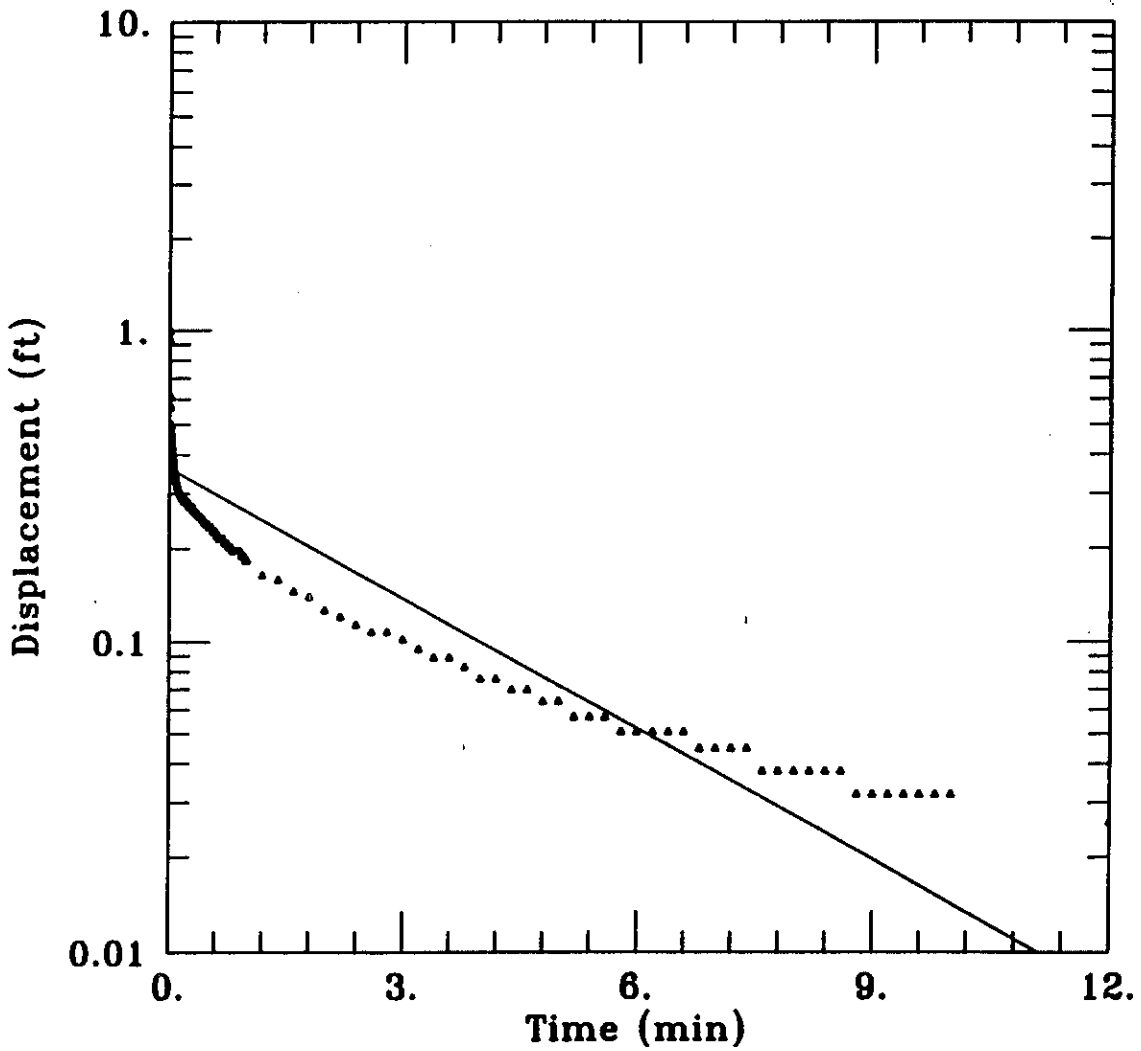
PARAMETER ESTIMATES:
K = 0.0008195 ft/min
y0 = 1.358 ft

AQTESOL

JCH 12/19/95

Client: ARMY CORPS OF ENGINEERS	Company: LAW ENG & ENV SVCS INC
Location: SAVANNAH GA	Project: 11-3551-0320

HUNTER ARMY AIRFIELD



DATA SET:
HMW12-I.DAT
12/19/95

AQUIFER MODEL:
Unconfined
SOLUTION METHOD:
Bouwer-Rice

PROJECT DATA:
test date: 10/09/95
test well: HMW-12, IN

TEST DATA:
H0 = 1.001 ft
rc = 0.08333 ft
rw = 0.3428 ft
L = 6.52 ft
b = 15. ft
H = 11.59 ft

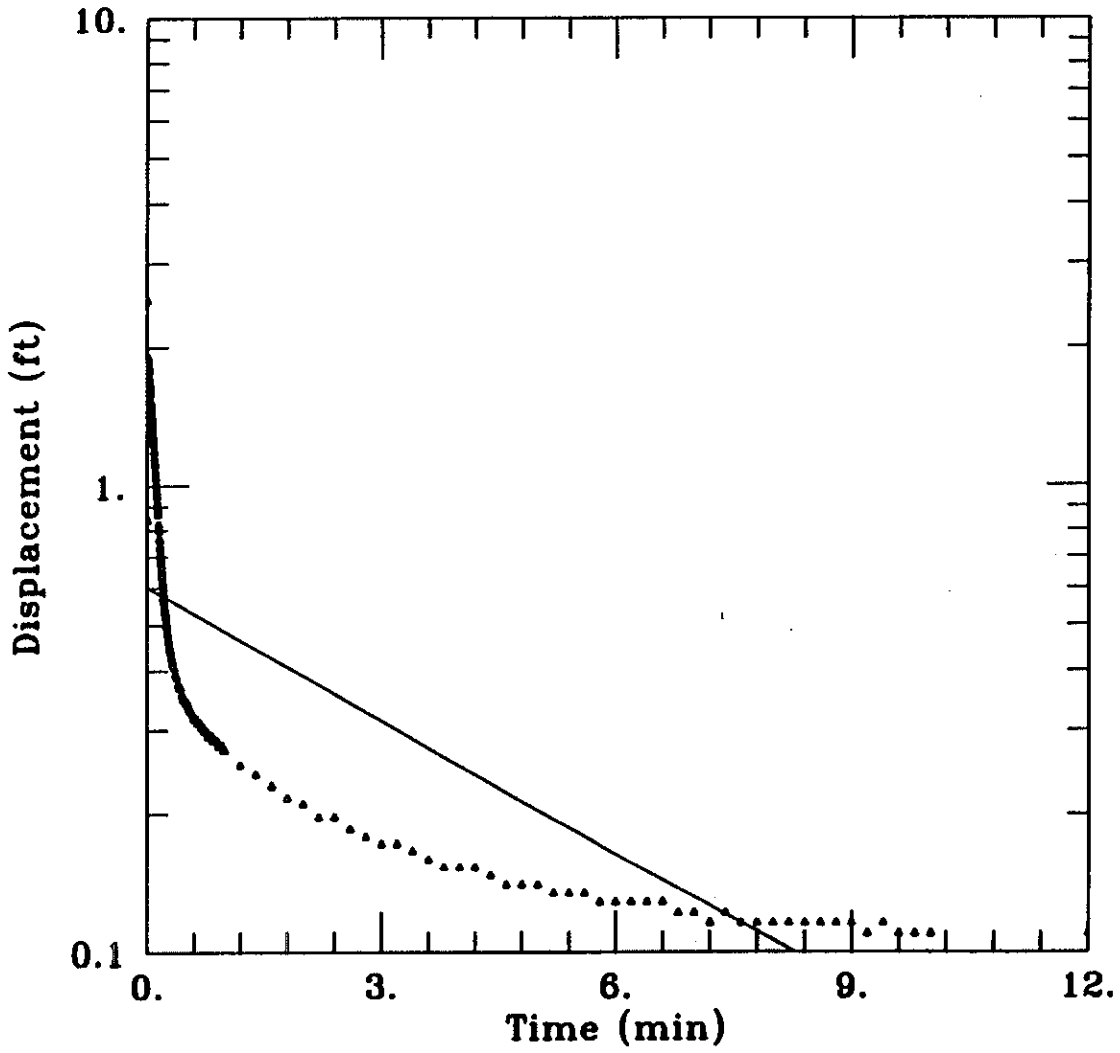
PARAMETER ESTIMATES:
K = 0.001848 ft/min
y0 = 0.363 ft

AQTESOL

JCd 12/19/95

Client: ARMY CORPS OF ENGINNERS	Company: LAW ENG & ENV SVCS INC
Location: SAVANNAH GA	Project: 11-3551-0320

HUNTER ARMY AIRFIELD



DATA SET:
HMW12-0.DAT
12/19/95

AQUIFER MODEL:
Unconfined
SOLUTION METHOD:
Bouwer-Rice

PROJECT DATA:
test date: 10/09/95
test well: HMW-12

TEST DATA:
H0 = 1.907 ft
rc = 0.08333 ft
rw = 0.3428 ft
L = 6.52 ft
b = 15. ft
H = 11.59 ft

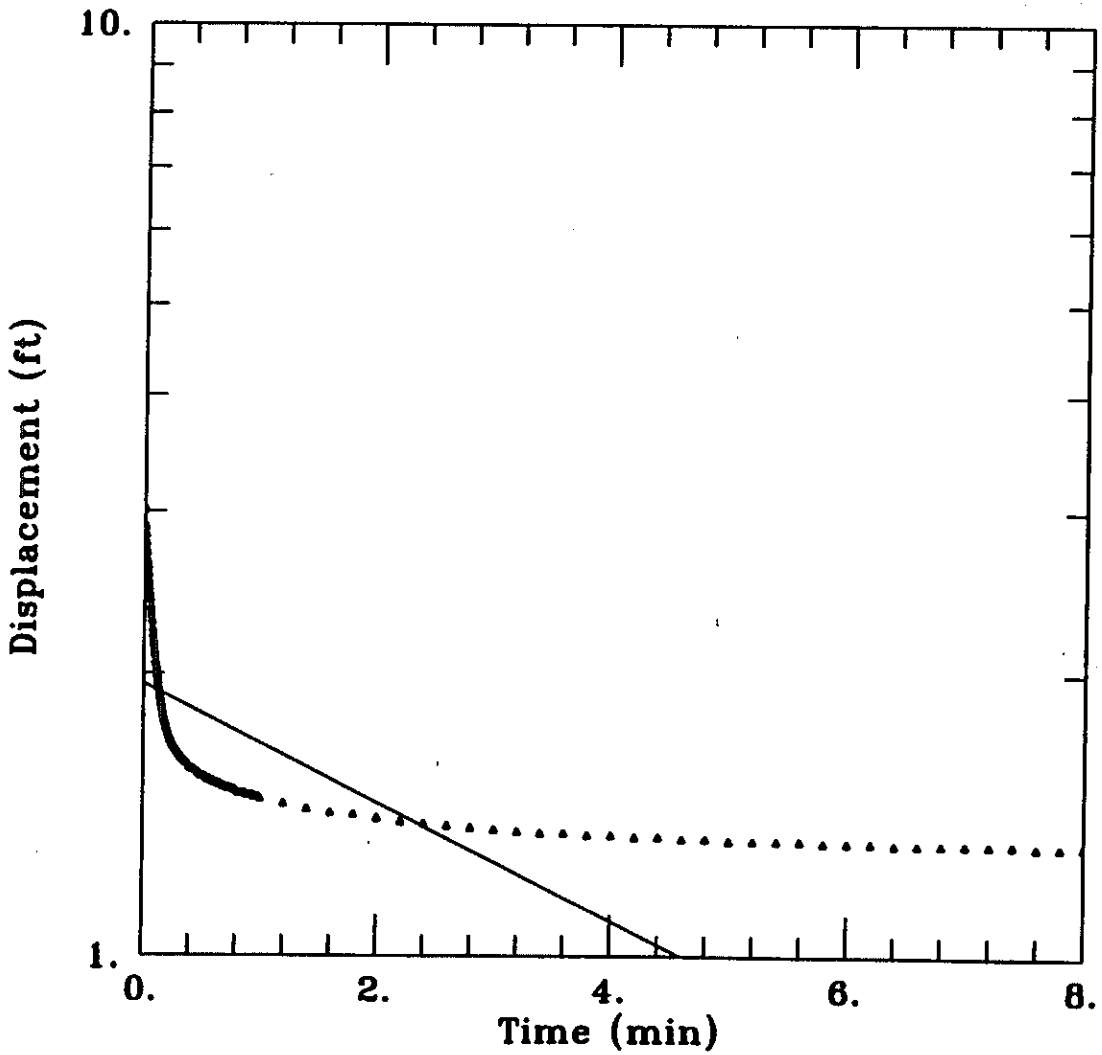
PARAMETER ESTIMATES:
K = 0.001241 ft/min
y0 = 0.6024 ft

AQTESOL

jcf 12/19/95

Client: **ARMY CORPS OF ENGINEERS**	Company: **LAW ENG & ENV SVCS**
Location: **SAVANNAH GA**	Project: **11-3551-0320**

HUNTER ARMY AIRFIELD



DATA SET:
HMW13-0.DAT
12/19/95

AQUIFER MODEL:
Unconfined
SOLUTION METHOD:
Bouwer-Rice

PROJECT DATA:
test date: 10/10/95
test well: HMW-13, OUT

TEST DATA:
H0 = 3.014 ft
rc = 0.08333 ft
rw = 0.3438 ft
L = 7.28 ft
b = 15. ft
H = 12.93 ft

PARAMETER ESTIMATES:
K = 0.0007968 ft/min
y0 = 1.95 ft

AQTESOL

JCA 12/19/95

APPENDIX F

Laboratory Analytical Reports for CSR Assessments

ANALYTICAL SERVICES, INC.

ASI ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS GA 30092
(770) 734-4200 • (770) 734-4201 FAX

January 17, 2000

Case Narrative ASI Sample 116583

Seven Encore soil samples and two aqueous samples were collected on January 4, 2000 and arrived at ASI on January 5, 2000. One aqueous trip blank and one aqueous equipment blank accompanied the samples. All conditions for proper preservation and shipment were met. Samples were logged into LIMS as ASI sample 116583 for analysis of VOC, BNA, pesticides, PCB and percent moisture. All soil samples were reported on a dry-weight basis. All holding times were met.

Pesticides in water were analyzed in batch 54625 using EPA method 8081. Sample 116583-1 was used for the MS/MSD. All necessary measurement quality objectives were met for this batch.

VOC in soil were analyzed in batch 54603 using EPA method 8260. Several surrogate recoveries were out of range for sample 116583-4 and -6. The samples were analyzed in duplicate and all recoveries were within control limits. Sample 116583-3 was analyzed in duplicate for the MS/MSD. Sample 116583-2 was also analyzed for the MS/MSD due to low recoveries using sample -3. Recoveries were still low due to matrix interference. Results for the MS/MSD were reported from the duplicate analysis of sample -3. MS recoveries were low for chlorobenzene and MSD recoveries were low for tetrachloroethene, toluene, and chlorobenzene. Sample 116583-6 was analyzed three times and at a 1:5 dilution. Detection limits were raised for sample -6 since results were reported from the 1.0 gram sample volume. All other necessary measurement quality objectives were met for this batch.

VOC in water were analyzed in batch 54637 using EPA method 8260. The LC recoveries were high for acetone, 2-butanone, chloroethane, and trans-1,2-dichloroethene. All recoveries were within control limits. Sample 116583-10 was used for the MS/MSD and all other necessary measurement quality objectives were met.

Base/Neutrals and Acids in soil were analyzed in batch 54611 using EPA method 8270. The LC/LCS was re-analyzed in order to ensure better recoveries. The LC recovery was high for indeno (1,2,3-cd) pyrene but was within control limits. Sample 116583-2 was used for the MS/MSD. Surrogate S4 recovery was slightly low for the MSD. Sample -2 and the MS/MSD were analyzed at a 1:10 dilution. All other necessary measurement quality objectives were met.

Base/Neutrals and Acids in water were analyzed in batch 54627 using EPA method 8270. . The LC recoveries were high for benzo(ghi)perylene, di-n-butylphthalate, dinbenzo(a,h) anthracene, diethylphthalate, and indeno (1,2,3-cd) pyrene. All recoveries were within control limits. S1 and S2 surrogate recoveries were low for the LCS. The LC/LCS was re-extracted and re-analyzed with surrogate recoveries within acceptance range. All other necessary measurement quality objectives were met.

PCBs in water were analyzed in batch 54714 using EPA method 8082. LC recoveries for PCB 1016 and 1260 were low but within control limits. An LCS2 was analyzed with a PCB 1254 spike but recovery was zero. The MS/MSD recoveries were within acceptance range. S1 and S2 surrogate recoveries were low for the LCS. The LC/LCS were re-analyzed with the same results. Sample 116583-1 was used for the MS/MSD and all other necessary measurement quality objectives were met.

Percent moisture for the soil samples was analyzed in batch 54632. Sample 116583-7 was analyzed in duplicate and all necessary measurement quality objectives were met.

Callie Brinkley
Quality Assurance

ASI
ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116583-1**

January 18, 2000

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, HAAFEB-SO, 01/04/2000, 10:00, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Volatile Organics			
EPA 8260B	Acetone	BDL	20	ug/L
EPA 8260B	Benzene	BDL	5	ug/L
EPA 8260B	2-Butanone	BDL	25	ug/L
EPA 8260B	Carbon tetrachloride	BDL	5	ug/L
EPA 8260B	Chlorobenzene	BDL	5	ug/L
EPA 8260B	Chloroethane	BDL	10	ug/L
EPA 8260B	Chloroform	BDL	5	ug/L
EPA 8260B	Chloromethane	BDL	3	ug/L
EPA 8260B	1,1-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,2-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,1-Dichloroethene	BDL	5	ug/L
EPA 8260B	cis-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	trans-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	Ethylbenzene	BDL	5	ug/L
EPA 8260B	Methylene chloride	BDL	5	ug/L
EPA 8260B	Tetrachloroethene	BDL	5	ug/L
EPA 8260B	Toluene	BDL	5	ug/L
EPA 8260B	1,1,1-Trichloroethane	BDL	5	ug/L
EPA 8260B	1,1,2-Trichloroethane	BDL	5	ug/L
EPA 8260B	Trichloroethene	BDL	5	ug/L
EPA 8260B	Trichlorofluoromethane	BDL	5	ug/L
EPA 8260B	Vinyl chloride	BDL	2	ug/L
EPA 8260B	Xylenes (total)	BDL	5	ug/L
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	10	ug/L

qaw
2/10/00

BDL - Below Detection Limit

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, HAAFEB-SO, 01/04/2000, 10:00, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8270C	Acenaphthylene	BDL	10	ug/L
EPA 8270C	Anthracene	BDL	10	ug/L
EPA 8270C	Benzo(a)anthracene	BDL	10	ug/L
EPA 8270C	Benzo(b)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(k)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(ghi)perylene	BDL	10	ug/L
EPA 8270C	Benzo(a)pyrene	BDL	10	ug/L
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	10	ug/L
EPA 8270C	4-Bromophenyl phenyl ether	BDL	10	ug/L
EPA 8270C	Chrysene	BDL	10	ug/L
EPA 8270C	Dibenzo(a,h)anthracene	BDL	10	ug/L
EPA 8270C	Di-n-butylphthalate	BDL	10	ug/L
EPA 8270C	1,3-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,4-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,2-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	Diethylphthalate	BDL	10	ug/L
EPA 8270C	Fluoranthene	BDL	10	ug/L
EPA 8270C	Fluorene	BDL	10	ug/L
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	10	ug/L
EPA 8270C	Naphthalene	BDL	10	ug/L
EPA 8270C	Phenanthrene	BDL	10	ug/L
EPA 8270C	Pyrene	BDL	10	ug/L
	Pesticides			
EPA 8081A	Chlordane-alpha	BDL	0.5	ug/L
EPA 8081A	Chlordane-gamma	BDL	0.5	ug/L
EPA 8081A	Chlordane	BDL	0.5	ug/L
EPA 8081A	4,4'-DDD	BDL	0.1	ug/L
EPA 8081A	4,4'-DDE	BDL	0.1	ug/L
EPA 8081A	4,4'-DDT	BDL	0.1	ug/L
EPA 8081A	Dieldrin	BDL	0.2	ug/L
EPA 8081A	Methoxychlor	BDL	0.5	ug/L
	PCB's			
EPA 8082	PCB 1254	BDL J	1.0	ug/L

gaw
2/10/00

BDL - Below Detection Limit

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Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116583-2**

January 18, 2000

Sample Description

Law Environmental
Soil, grab, Hunter AAF, Project #12001-9-3411, SB-38-1, 01/04/2000, 10:50, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	12	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	57	ug/kg
EPA 8260B	Benzene	BDL	5.7	ug/kg
EPA 8260B	2-Butanone	BDL	28	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.7	ug/kg
EPA 8260B	Chlorobenzene	BDL J	5.7	ug/kg
EPA 8260B	Chloroethane	BDL	11	ug/kg
EPA 8260B	Chloroform	BDL	5.7	ug/kg
EPA 8260B	Chloromethane	BDL	11	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.7	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.7	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.7	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.7	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.7	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.7	ug/kg
EPA 8260B	Methylene chloride	BDL	5.7	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.7	ug/kg
EPA 8260B	Toluene	BDL	5.7	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.7	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.7	ug/kg
EPA 8260B	Trichloroethene	BDL	5.7	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.7	ug/kg
EPA 8260B	Vinyl chloride	BDL	11	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.7	ug/kg

gau
2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, SB-38-1, 01/04/2000, 10:50, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	1700	380	ug/kg
EPA 8270C	Acenaphthylene	1100	380	ug/kg
EPA 8270C	Anthracene	7400	380	ug/kg
EPA 8270C	Benzo(a)anthracene	15000	380	ug/kg
EPA 8270C	Benzo(b)fluoranthene	8600	380	ug/kg
EPA 8270C	Benzo(k)fluoranthene	9400	380	ug/kg
EPA 8270C	Benzo(ghi)perylene	5500	380	ug/kg
EPA 8270C	Benzo(a)pyrene	9900	380	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	380	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	380	ug/kg
EPA 8270C	Chrysene	14000	380	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	3100	380	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	380	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	380	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	380	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	380	ug/kg
EPA 8270C	Diethylphthalate	BDL	380	ug/kg
EPA 8270C	Fluoranthene	33000	380	ug/kg
EPA 8270C	Fluorene	3900	380	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	5600 J	380	ug/kg
EPA 8270C	Naphthalene	530	380	ug/kg
EPA 8270C	Phenanthrene	39000	380	ug/kg
EPA 8270C	Pyrene	25000 J	380	ug/kg

2/10/00

BDL - Below Detection Limit

Note: Results reported on dry-weight basis

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Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116583-3**

January 18, 2000

Sample Description
Law Environmental
Soil, grab, Hunter AAF, Project #12001-9-3411, SB-38-2, 01/04/2000, 11:10, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	25	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	67	ug/kg
EPA 8260B	Benzene	BDL	6.7	ug/kg
EPA 8260B	2-Butanone	BDL	33	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	6.7	ug/kg
EPA 8260B	Chlorobenzene	BDL J	6.7	ug/kg
EPA 8260B	Chloroethane	BDL	13	ug/kg
EPA 8260B	Chloroform	BDL	6.7	ug/kg
EPA 8260B	Chloromethane	BDL	13	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	6.7	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	6.7	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	6.7	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	6.7	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	6.7	ug/kg
EPA 8260B	Ethylbenzene	BDL	6.7	ug/kg
EPA 8260B	Methylene chloride	BDL	6.7	ug/kg
EPA 8260B	Tetrachloroethene	BDL	6.7	ug/kg
EPA 8260B	Toluene	BDL	6.7	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	6.7	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	6.7	ug/kg
EPA 8260B	Trichloroethene	BDL	6.7	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	6.7	ug/kg
EPA 8260B	Vinyl chloride	BDL	13	ug/kg
EPA 8260B	Xylenes (total)	BDL	6.7	ug/kg

gaw
2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, SB-38-2, 01/04/2000, 11:10, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	440	ug/kg
EPA 8270C	Acenaphthylene	BDL	440	ug/kg
EPA 8270C	Anthracene	BDL	440	ug/kg
EPA 8270C	Benzo(a)anthracene	BDL	440	ug/kg
EPA 8270C	Benzo(b)fluoranthene	BDL	440	ug/kg
EPA 8270C	Benzo(k)fluoranthene	BDL	440	ug/kg
EPA 8270C	Benzo(ghi)perylene	BDL	440	ug/kg
EPA 8270C	Benzo(a)pyrene	BDL	440	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	440	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	440	ug/kg
EPA 8270C	Chrysene	BDL	440	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	BDL	440	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	440	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	440	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	440	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	440	ug/kg
EPA 8270C	Diethylphthalate	BDL	440	ug/kg
EPA 8270C	Fluoranthene	BDL	440	ug/kg
EPA 8270C	Fluorene	BDL	440	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	440	ug/kg
EPA 8270C	Naphthalene	BDL	440	ug/kg
EPA 8270C	Phenanthrene	BDL	440	ug/kg
EPA 8270C	Pyrene	BDL	440	ug/kg

2/10/00

BDL - Below Detection Limit

Note: Results reported on dry-weight basis

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Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116583-4**

January 18, 2000

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, Duplicate E, 01/04/2000, 11:10, received 01/05/2000

Analytical Method	Analyte	Result		Detection Limit	Units
	General Chemistry				
ASTM D 2216	Moisture	24		0.04	%
	Volatile Organics				
EPA 8260B	Acetone	BDL	J	66	ug/kg
EPA 8260B	Benzene	BDL		6.6	ug/kg
EPA 8260B	2-Butanone	BDL		33	ug/kg
EPA 8260B	Carbon tetrachloride	BDL		6.6	ug/kg
EPA 8260B	Chlorobenzene	BDL		6.6	ug/kg
EPA 8260B	Chloroethane	BDL		13	ug/kg
EPA 8260B	Chloroform	BDL		6.6	ug/kg
EPA 8260B	Chloromethane	BDL		13	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL		6.6	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL		6.6	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL		6.6	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL		6.6	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL		6.6	ug/kg
EPA 8260B	Ethylbenzene	BDL		6.6	ug/kg
EPA 8260B	Methylene chloride	BDL		6.6	ug/kg
EPA 8260B	Tetrachloroethene	BDL		6.6	ug/kg
EPA 8260B	Toluene	BDL		6.6	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL		6.6	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL		6.6	ug/kg
EPA 8260B	Trichloroethene	BDL		6.6	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL		6.6	ug/kg
EPA 8260B	Vinyl chloride	BDL		13	ug/kg
EPA 8260B	Xylenes (total)	BDL		6.6	ug/kg

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2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, Duplicate E, 01/04/2000, 11:10, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	430	ug/kg
EPA 8270C	Acenaphthylene	BDL	430	ug/kg
EPA 8270C	Anthracene	BDL	430	ug/kg
EPA 8270C	Benzo(a)anthracene	BDL	430	ug/kg
EPA 8270C	Benzo(b)fluoranthene	BDL	430	ug/kg
EPA 8270C	Benzo(k)fluoranthene	BDL	430	ug/kg
EPA 8270C	Benzo(ghi)perylene	BDL	430	ug/kg
EPA 8270C	Benzo(a)pyrene	BDL	430	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	430	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	430	ug/kg
EPA 8270C	Chrysene	BDL	430	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	BDL	430	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	430	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	430	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	430	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	430	ug/kg
EPA 8270C	Diethylphthalate	BDL	430	ug/kg
EPA 8270C	Fluoranthene	BDL	430	ug/kg
EPA 8270C	Fluorene	BDL	430	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	430	ug/kg
EPA 8270C	Naphthalene	BDL	430	ug/kg
EPA 8270C	Phenanthrene	BDL	430	ug/kg
EPA 8270C	Pyrene	BDL	430	ug/kg

gaw
2/10/00

BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI
ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116583-5**

January 18, 2000

Sample Description

Law Environmental
Soil, grab, Hunter AAF, Project #12001-9-3411, SB-39-1, 01/04/2000, 14:45, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	15	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	59	ug/kg
EPA 8260B	Benzene	BDL	5.9	ug/kg
EPA 8260B	2-Butanone	BDL	29	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.9	ug/kg
EPA 8260B	Chlorobenzene	BDL J	5.9	ug/kg
EPA 8260B	Chloroethane	BDL	12	ug/kg
EPA 8260B	Chloroform	BDL	5.9	ug/kg
EPA 8260B	Chloromethane	BDL	12	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.9	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.9	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.9	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.9	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.9	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.9	ug/kg
EPA 8260B	Methylene chloride	BDL	5.9	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.9	ug/kg
EPA 8260B	Toluene	BDL	5.9	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.9	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.9	ug/kg
EPA 8260B	Trichloroethene	BDL	5.9	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.9	ug/kg
EPA 8260B	Vinyl chloride	BDL	12	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.9	ug/kg

gaw
2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

ASI
ANALYTICAL SERVICES, INC.
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Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116583-6**

January 18, 2000

Sample Description
Law Environmental
Soil, grab, Hunter AAF, Project #12001-9-3411, SB-39-2, 01/04/2000, 15:00, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	16	0.4	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	300	ug/kg
EPA 8260B	Benzene	BDL	30	ug/kg
EPA 8260B	2-Butanone	BDL	150	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	30	ug/kg
EPA 8260B	Chlorobenzene	BDL J	30	ug/kg
EPA 8260B	Chloroethane	BDL	60	ug/kg
EPA 8260B	Chloroform	BDL	30	ug/kg
EPA 8260B	Chloromethane	BDL	60	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	30	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	30	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	30	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	30	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	30	ug/kg
EPA 8260B	Ethylbenzene	BDL	30	ug/kg
EPA 8260B	Methylene chloride	BDL	30	ug/kg
EPA 8260B	Tetrachloroethene	BDL	30	ug/kg
EPA 8260B	Toluene	BDL	30	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	30	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	30	ug/kg
EPA 8260B	Trichloroethene	BDL	30	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	30	ug/kg
EPA 8260B	Vinyl chloride	BDL	60	ug/kg
EPA 8260B	Xylenes (total)	BDL	30	ug/kg

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

2-10-2000

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
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Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116583-7**

January 18, 2000

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, SB-40-1, 01/04/2000, 12:50, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	13	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	57	ug/kg
EPA 8260B	Benzene	BDL	5.7	ug/kg
EPA 8260B	2-Butanone	BDL	29	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.7	ug/kg
EPA 8260B	Chlorobenzene	BDL J	5.7	ug/kg
EPA 8260B	Chloroethane	BDL	11	ug/kg
EPA 8260B	Chloroform	BDL	5.7	ug/kg
EPA 8260B	Chloromethane	BDL	11	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.7	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.7	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.7	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.7	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.7	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.7	ug/kg
EPA 8260B	Methylene chloride	BDL	5.7	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.7	ug/kg
EPA 8260B	Toluene	BDL	5.7	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.7	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.7	ug/kg
EPA 8260B	Trichloroethene	BDL	5.7	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.7	ug/kg
EPA 8260B	Vinyl chloride	BDL	11	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.7	ug/kg

gaw
2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

ASI
ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116583-8**

January 18, 2000

Sample Description
Law Environmental
Soil, grab, Hunter AAF, Project #12001-9-3411, SB-40-2, 01/04/2000, 13:05, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	21	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	63	ug/kg
EPA 8260B	Benzene	BDL	6.3	ug/kg
EPA 8260B	2-Butanone	BDL	32	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	6.3	ug/kg
EPA 8260B	Chlorobenzene	BDL J	6.3	ug/kg
EPA 8260B	Chloroethane	BDL	13	ug/kg
EPA 8260B	Chloroform	BDL	6.3	ug/kg
EPA 8260B	Chloromethane	BDL	13	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	6.3	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	6.3	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	6.3	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	6.3	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	6.3	ug/kg
EPA 8260B	Ethylbenzene	BDL	6.3	ug/kg
EPA 8260B	Methylene chloride	BDL	6.3	ug/kg
EPA 8260B	Tetrachloroethene	BDL	6.3	ug/kg
EPA 8260B	Toluene	BDL	6.3	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	6.3	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	6.3	ug/kg
EPA 8260B	Trichloroethene	BDL	6.3	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	6.3	ug/kg
EPA 8260B	Vinyl chloride	BDL	13	ug/kg
EPA 8260B	Xylenes (total)	BDL	6.3	ug/kg

qaw
2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116583-9**

January 18, 2000

Sample Description
Law Environmental
Water, grab, Hunter AAF, Project #12001-9-3411, HAAFTB-W1, 01/04/2000, 18:30, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Volatile Organics			
EPA 8260B	Acetone	BDL	20	ug/L
EPA 8260B	Benzene	BDL	5	ug/L
EPA 8260B	2-Butanone	BDL	25	ug/L
EPA 8260B	Carbon tetrachloride	BDL	5	ug/L
EPA 8260B	Chlorobenzene	BDL	5	ug/L
EPA 8260B	Chloroethane	BDL	10	ug/L
EPA 8260B	Chloroform	BDL	5	ug/L
EPA 8260B	Chloromethane	BDL	3	ug/L
EPA 8260B	1,1-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,2-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,1-Dichloroethene	BDL	5	ug/L
EPA 8260B	cis-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	trans-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	Ethylbenzene	BDL	5	ug/L
EPA 8260B	Methylene chloride	BDL	5	ug/L
EPA 8260B	Tetrachloroethene	BDL	5	ug/L
EPA 8260B	Toluene	BDL	5	ug/L
EPA 8260B	1,1,1-Trichloroethane	BDL	5	ug/L
EPA 8260B	1,1,2-Trichloroethane	BDL	5	ug/L
EPA 8260B	Trichloroethene	BDL	5	ug/L
EPA 8260B	Trichlorofluoromethane	BDL	5	ug/L
EPA 8260B	Vinyl chloride	BDL	2	ug/L
EPA 8260B	Xylenes (total)	BDL	5	ug/L

gdw
2/10/00

BDL - Below Detection Limit

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Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116583-10**

January 18, 2000

Sample Description
Law Environmental
Water, grab, Hunter AAF, Project #12001-9-3411, SB-38-W, 01/04/2000, 17:30, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Volatile Organics			
EPA 8260B	Acetone	BDL	20	ug/L
EPA 8260B	Benzene	BDL	5	ug/L
EPA 8260B	2-Butanone	BDL	25	ug/L
EPA 8260B	Carbon tetrachloride	BDL	5	ug/L
EPA 8260B	Chlorobenzene	BDL	5	ug/L
EPA 8260B	Chloroethane	BDL	10	ug/L
EPA 8260B	Chloroform	BDL	5	ug/L
EPA 8260B	Chloromethane	BDL	3	ug/L
EPA 8260B	1,1-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,2-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,1-Dichloroethene	BDL	5	ug/L
EPA 8260B	cis-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	trans-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	Ethylbenzene	BDL	5	ug/L
EPA 8260B	Methylene chloride	BDL	5	ug/L
EPA 8260B	Tetrachloroethene	BDL	5	ug/L
EPA 8260B	Toluene	BDL	5	ug/L
EPA 8260B	1,1,1-Trichloroethane	BDL	5	ug/L
EPA 8260B	1,1,2-Trichloroethane	BDL	5	ug/L
EPA 8260B	Trichloroethene	BDL	5	ug/L
EPA 8260B	Trichlorofluoromethane	BDL	5	ug/L
EPA 8260B	Vinyl chloride	BDL	2	ug/L
EPA 8260B	Xylenes (total)	BDL	5	ug/L
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	10	ug/L

gaw
2/10/00

BDL - Below Detection Limit

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, SB-38-W, 01/04/2000, 17:30, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8270C	Acenaphthylene	BDL	10	ug/L
EPA 8270C	Anthracene	BDL	10	ug/L
EPA 8270C	Benzo(a)anthracene	BDL	10	ug/L
EPA 8270C	Benzo(b)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(k)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(ghi)perylene	BDL	10	ug/L
EPA 8270C	Benzo(a)pyrene	BDL	10	ug/L
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	10	ug/L
EPA 8270C	4-Bromophenyl phenyl ether	BDL	10	ug/L
EPA 8270C	Chrysene	BDL	10	ug/L
EPA 8270C	Dibenzo(a,h)anthracene	BDL	10	ug/L
EPA 8270C	Di-n-butylphthalate	BDL	10	ug/L
EPA 8270C	1,3-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,4-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,2-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	Diethylphthalate	BDL	10	ug/L
EPA 8270C	Fluoranthene	BDL	10	ug/L
EPA 8270C	Fluorene	BDL	10	ug/L
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	10	ug/L
EPA 8270C	Naphthalene	BDL	10	ug/L
EPA 8270C	Phenanthrene	BDL	10	ug/L
EPA 8270C	Pyrene	BDL	10	ug/L

2/10/00

BDL - Below Detection Limit

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116583-11**

January 18, 2000

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, Duplicate-TP, 01/04/2000, 17:30, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Volatile Organics			
EPA 8260B	Acetone	BDL	20	ug/L
EPA 8260B	Benzene	BDL	5	ug/L
EPA 8260B	2-Butanone	BDL	25	ug/L
EPA 8260B	Carbon tetrachloride	BDL	5	ug/L
EPA 8260B	Chlorobenzene	BDL	5	ug/L
EPA 8260B	Chloroethane	BDL	10	ug/L
EPA 8260B	Chloroform	BDL	5	ug/L
EPA 8260B	Chloromethane	BDL	3	ug/L
EPA 8260B	1,1-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,2-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,1-Dichloroethene	BDL	5	ug/L
EPA 8260B	cis-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	trans-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	Ethylbenzene	BDL	5	ug/L
EPA 8260B	Methylene chloride	BDL	5	ug/L
EPA 8260B	Tetrachloroethene	BDL	5	ug/L
EPA 8260B	Toluene	BDL	5	ug/L
EPA 8260B	1,1,1-Trichloroethane	BDL	5	ug/L
EPA 8260B	1,1,2-Trichloroethane	BDL	5	ug/L
EPA 8260B	Trichloroethene	BDL	5	ug/L
EPA 8260B	Trichlorofluoromethane	BDL	5	ug/L
EPA 8260B	Vinyl chloride	BDL	2	ug/L
EPA 8260B	Xylenes (total)	BDL	5	ug/L
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	10	ug/L

gaw
2/10/00

BDL - Below Detection Limit

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, Duplicate-TP, 01/04/2000, 17:30, received 01/05/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8270C	Acenaphthylene	BDL	10	ug/L
EPA 8270C	Anthracene	BDL	10	ug/L
EPA 8270C	Benzo(a)anthracene	BDL	10	ug/L
EPA 8270C	Benzo(b)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(k)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(ghi)perylene	BDL	10	ug/L
EPA 8270C	Benzo(a)pyrene	BDL	10	ug/L
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	10	ug/L
EPA 8270C	4-Bromophenyl phenyl ether	BDL	10	ug/L
EPA 8270C	Chrysene	BDL	10	ug/L
EPA 8270C	Dibenzo(a,h)anthracene	BDL	10	ug/L
EPA 8270C	Di-n-butylphthalate	BDL	10	ug/L
EPA 8270C	1,3-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,4-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,2-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	Diethylphthalate	BDL	10	ug/L
EPA 8270C	Fluoranthene	BDL	10	ug/L
EPA 8270C	Fluorene	BDL	10	ug/L
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	10	ug/L
EPA 8270C	Naphthalene	BDL	10	ug/L
EPA 8270C	Phenanthrene	BDL	10	ug/L
EPA 8270C	Pyrene	BDL	10	ug/L

2/10/00

BDL - Below Detection Limit

MRM. RNP2 VB

ASI ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

CLIENT NAME: LAW ENG & ENV. SERVICES
CLIENT ADDRESS AND PHONE NUMBER: 112 Town Park Drive Kennesaw, GA 30144 (770) 421-3400
PROJECT MANAGER: DAVID GOERSHEL
COPY TO (if applicable):
REQUESTED COMPLETION DATE: 1/7/00 (48 HR)
SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ☐ ____
PROJECT NAME: Hunter AAF
PROJECT NUMBER: 12001-9-3411
PURCHASE ORDER NO.
FOR LAB USE ONLY
LAB #: 116583
PROJECT NO.
ACK | VERIFIED
QUOTE # | BS
NO. OF SAMP: 11 | PG: 1 | OF: 1

SAMPLE ID	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS	# OF CONTAINERS	ANALYSES REQUESTED: VOCs-SW 8260B	SVOCs-SW 8270C	Pest-SW 8091A	PCB-SW 8082	VOCs-SW 8260B-Enviro	Moisture-D2216	LAB ID	REMARKS/ADDITIONAL INFORMATION
	1/4/00	10:00		X		HAAFEB-SO	7	3	2	1	1			-1	WATER
	1/4/00	10:50		X		SB-38-1	5		1			3	1	-2	48 hr turn - SOIL
	1/4/00	11:10		X		SB-38-2	5		1			3	1	-3	48 hr turn - SOIL
	1/4/00	11:10		X		Duplicate E	5		1			3	1	-4	48 hr. turn - SOIL
	1/4/00	1445		X		SB-39-1	4					3	1	-5	48 hr. turn - SOIL
	1/4/00	1500		X		SB-39-2	4					3	1	-6	48 hr turn - SOIL
	1/4/00	1250		X		SB-40-1	4					3	1	-7	48 hr. turn - SOIL
	1/4/00	1305		X		SB 40-2	4					3	1	-8	48 hr turn - SOIL
	1/4/00	1830		X		HAAFTB-W1	2	2						-9	48 hr turn - water
	1/4/00	1730		X		SB-38-W	5	3	2					-10	48 hr turn - water
	1/4/00	1730		X		Duplicate-TP	5	3	2					-11	48 hr turn - water

SAMPLED BY AND TITLE: Geologist — DATE/TIME: 1/4/00
RECEIVED BY: FED EX # 813984611426 — DATE/TIME: 1/4/00 / 19:45
RECEIVED BY — DATE/TIME
RECEIVED BY LAB: MRM — DATE/TIME: 1/5/00 8:55
REMARKS:

RELINQUISHED BY — DATE/TIME: 1/4/00 / 19:45
RELINQUISHED BY: — DATE/TIME
RELINQUISHED BY: — DATE/TIME
SAMPLE SHIPPED VIA: UPS BUS FED-EX HAND OTHER ____
AIR BILL # 813984611426

HAZWRAP/NEESA Y N
QC LEVEL 1 2 3
COC ✓ — ICE ✓
ANA REQ — TEMP 2C (8.5)
CUST SEAL ✓ — PH = W/B
SAMPLE COND. good
ENTERED INTO LIMS ____ — COC REVIEWD ____

50ct

F-20

ASI ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS GA 30092
(770) 734-4200 • (770) 734-4201 FAX

January 17, 2000

Case Narrative ASI Sample 116636

Twelve Encore soil samples and one aqueous sample were collected on January 5, 2000 and arrived at ASI on January 6, 2000. All conditions for proper preservation and shipment were met. Samples were logged into LIMS as ASI sample 116636 for analysis of VOC, BNA, pesticides, PCB and percent moisture. All soil samples were reported on a dry-weight basis. All holding times were met.

Base/Neutrals and Acids in water were analyzed in batch 54627 using EPA method 8270. The LC recoveries were high for benzo(ghi)perylene, di-n-butylphthalate, dinbenzo(a,h)anthracene, diethylphthalate, and indeno (1,2,3-cd) pyrene. All recoveries were within control limits. S1 and S2 surrogate recoveries were low for the LCS. The LC/LCS were re-extracted and re-analyzed with surrogate recoveries within acceptance range. The S2 surrogate recovery was low for dayblank 01/06. The dayblank was re-analyzed with recoveries within acceptance range The S2 surrogate recovery was low for sample 116636-13. The sample was re-analyzed with the same results. All other necessary measurement quality objectives were met.

VOC in soil were analyzed in batch 54642 using EPA method 8260. The LC recovery for tetrachloroethene was slightly low but within control limits. The MS/MSD was analyzed in duplicate. Duplicate samples for 116636-2 and -6 were analyzed and reported due to poor instrument purge in the original analyses. Sample 116636-9 was analyzed three times due to poor instrument purge with results reported from the second duplicate. All other necessary measurement quality objectives were met for this batch.

VOC in water were analyzed in batch 54683 using EPA method 8260. The LC recoveries were high for 2-butanone and chloromethane. The LCS was analyzed in duplicate and all other necessary measurement quality objectives were met.

PCBs in soil were analyzed in batch 54687 using EPA method 8082. The LC was re-analyzed with a PCB 1254 spike as per client request. Sample 116636-9 was analyzed in duplicate and all other necessary measurement quality objectives were met.

Pesticides in soil were analyzed in batch 54689 using EPA method 8081. Sample 116583-1 was used for the MS/MSD. The S3 surrogate recoveries were high for 116636-5 and -9 Dup. All other necessary measurement quality objectives were met for this batch.

Percent moisture for the soil samples was analyzed in batch 54668. Sample 116636-8 was analyzed in duplicate and all necessary measurement quality objectives were met.

Callie Brinkley
Quality Assurance

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116636-1**

January 18, 2000

Sample Description
Law Environmental
Soil, grab, Hunter AAF, Project.#12001-9-3411, SB-31-1, 01/05/2000, 09:20, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	6.0	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	53	ug/kg
EPA 8260B	Benzene	BDL	5.3	ug/kg
EPA 8260B	2-Butanone	BDL	27	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.3	ug/kg
EPA 8260B	Chlorobenzene	BDL	5.3 J	ug/kg
EPA 8260B	Chloroethane	BDL	11	ug/kg
EPA 8260B	Chloroform	BDL	5.3	ug/kg
EPA 8260B	Chloromethane	BDL	11	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.3	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.3	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.3	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.3	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.3	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.3	ug/kg
EPA 8260B	Methylene chloride	BDL	5.3	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.3	ug/kg
EPA 8260B	Toluene	BDL	5.3	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.3	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.3	ug/kg
EPA 8260B	Trichloroethene	BDL	5.3	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.3	ug/kg
EPA 8260B	Vinyl chloride	BDL	11	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.3	ug/kg

AH 2-10-2000

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

ASI
ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116636-2**

January 18, 2000

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, SB-31-2, 01/05/2000, 09:30, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	6.0	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	53	ug/kg
EPA 8260B	Benzene	BDL	5.3	ug/kg
EPA 8260B	2-Butanone	BDL	27	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.3	ug/kg
EPA 8260B	Chlorobenzene	BDL	5.3 J	ug/kg
EPA 8260B	Chloroethane	BDL	11	ug/kg
EPA 8260B	Chloroform	BDL	5.3	ug/kg
EPA 8260B	Chloromethane	BDL	11	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.3	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.3	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.3	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.3	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.3	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.3	ug/kg
EPA 8260B	Methylene chloride	BDL	5.3	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.3	ug/kg
EPA 8260B	Toluene	BDL	5.3	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.3	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.3	ug/kg
EPA 8260B	Trichloroethene	BDL	5.3	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.3	ug/kg
EPA 8260B	Vinyl chloride	BDL	11	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.3	ug/kg

qtt 2-10-2000

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116636-3**

January 18, 2000

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, SB-32-1, 01/05/2000, 09:55, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	5.3	0.04	%
	PCB's			
EPA 8082	PCB 1254	BDL	35	ug/kg

gdw
2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

ASI
ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116636-4**

January 18, 2000

Sample Description
Law Environmental
Soil, grab, Hunter AAF, Project #12001-9-3411, SB-32-2, 01/05/2000, 10:00, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	8.6	0.04	%
	PCB's			
EPA 8082	PCB 1254	BDL	36	ug/kg

2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116636-5**

January 18, 2000

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, Duplicate D, 01/05/2000, 12:00, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	5.5	0.04	%
	PCB's			
EPA 8082	PCB 1254	BDL	35	ug/kg

gaw
2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

ASI
ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116636-6**

January 18, 2000

Sample Description
Law Environmental
Soil, grab, Hunter AAF, Project #12001-9-3411, SB-33-1, 01/05/2000, 11:40, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	6.5	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	53	ug/kg
EPA 8260B	Benzene	BDL	5.3	ug/kg
EPA 8260B	2-Butanone	BDL	27	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.3	ug/kg
EPA 8260B	Chlorobenzene	BDL	5.3 J	ug/kg
EPA 8260B	Chloroethane	BDL	11	ug/kg
EPA 8260B	Chloroform	BDL	5.3	ug/kg
EPA 8260B	Chloromethane	BDL	11	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.3	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.3	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.3	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.3	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.3	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.3	ug/kg
EPA 8260B	Methylene chloride	BDL	5.3	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.3	ug/kg
EPA 8260B	Toluene	BDL	5.3 J	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.3	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.3	ug/kg
EPA 8260B	Trichloroethene	BDL	5.3	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.3	ug/kg
EPA 8260B	Vinyl chloride	BDL	11	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.3	ug/kg

gaw
2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, SB-33-1, 01/05/2000, 11:40, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	PCB's			
EPA 8082	PCB 1254	BDL	35	ug/kg

2/10/00

BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI
ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116636-9**

January 18, 2000

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, SB-33-2, 01/05/2000, 11:45, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	6.2	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	53	ug/kg
EPA 8260B	Benzene	BDL	5.3	ug/kg
EPA 8260B	2-Butanone	BDL	27	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.3	ug/kg
EPA 8260B	Chlorobenzene	BDL	5.3 J	ug/kg
EPA 8260B	Chloroethane	BDL	11	ug/kg
EPA 8260B	Chloroform	BDL	5.3	ug/kg
EPA 8260B	Chloromethane	BDL	11	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.3	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.3	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.3	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.3	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.3	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.3	ug/kg
EPA 8260B	Methylene chloride	BDL	5.3	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.3	ug/kg
EPA 8260B	Toluene	BDL	5.3 J	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.3	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.3	ug/kg
EPA 8260B	Trichloroethene	BDL	5.3	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.3	ug/kg
EPA 8260B	Vinyl chloride	BDL	11	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.3	ug/kg

apH 2-10-2000

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, SB-33-2, 01/05/2000, 11:45, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	PCB's			
EPA 8082	PCB 1254	BDL	35	ug/kg

JAW
2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116636-10**

January 18, 2000

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, SB-34-1, 01/05/2000, 12:15, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	7.4	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	54	ug/kg
EPA 8260B	Benzene	BDL	5.4	ug/kg
EPA 8260B	2-Butanone	BDL	27	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.4	ug/kg
EPA 8260B	Chlorobenzene	BDL J	5.4 J	ug/kg
EPA 8260B	Chloroethane	BDL	11	ug/kg
EPA 8260B	Chloroform	BDL	5.4	ug/kg
EPA 8260B	Chloromethane	BDL	11	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.4	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.4	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.4	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.4	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.4	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.4	ug/kg
EPA 8260B	Methylene chloride	BDL	5.4	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.4	ug/kg
EPA 8260B	Toluene	BDL J	5.4 J	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.4	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.4	ug/kg
EPA 8260B	Trichloroethene	BDL	5.4	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.4	ug/kg
EPA 8260B	Vinyl chloride	BDL	11	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.4	ug/kg

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

JAH 2-10-2000

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, SB-34-1, 01/05/2000, 12:15, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Pesticides			
EPA 8081A	Chlordane-alpha	BDL	3.6	ug/kg
EPA 8081A	Chlordane-gamma	BDL	3.6	ug/kg
EPA 8081A	Chlordane	BDL	3.6	ug/kg
EPA 8081A	4,4'-DDD	BDL	3.6	ug/kg
EPA 8081A	4,4'-DDE	BDL	3.6	ug/kg
EPA 8081A	4,4'-DDT	BDL	3.6	ug/kg
EPA 8081A	Dieldrin	BDL	3.6	ug/kg
EPA 8081A	Methoxychlor	BDL	18	ug/kg

gaw
2/10/00

BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116636-11**

January 18, 2000

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, SB-34-2, 01/05/2000, 12:25, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	10.7	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	56	ug/kg
EPA 8260B	Benzene	BDL	5.6	ug/kg
EPA 8260B	2-Butanone	BDL	28	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.6	ug/kg
EPA 8260B	Chlorobenzene	BDL J	5.6	ug/kg
EPA 8260B	Chloroethane	BDL	11	ug/kg
EPA 8260B	Chloroform	BDL	5.6	ug/kg
EPA 8260B	Chloromethane	BDL	11	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.6	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.6	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.6	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.6	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.6	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.6	ug/kg
EPA 8260B	Methylene chloride	BDL	5.6	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.6	ug/kg
EPA 8260B	Toluene	BDL J	5.6	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.6	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.6	ug/kg
EPA 8260B	Trichloroethene	BDL	5.6	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.6	ug/kg
EPA 8260B	Vinyl chloride	BDL	11	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.6	ug/kg

GPH 2-10-2000

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, SB-34-2, 01/05/2000, 12:25, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Pesticides			
EPA 8081A	Chlordane-alpha	BDL	3.7	ug/kg
EPA 8081A	Chlordane-gamma	BDL	3.7	ug/kg
EPA 8081A	Chlordane	BDL	3.7	ug/kg
EPA 8081A	4,4'-DDD	BDL	3.7	ug/kg
EPA 8081A	4,4'-DDE	BDL	3.7	ug/kg
EPA 8081A	4,4'-DDT	BDL	3.7	ug/kg
EPA 8081A	Dieldrin	BDL	3.7	ug/kg
EPA 8081A	Methoxychlor	BDL	19	ug/kg

2/10/00

BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116636-12**

January 18, 2000

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, Duplicate F, 01/05/2000, 14:30, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	12	0.04	%
	Pesticides			
EPA 8081A	Chlordane-alpha	BDL	3.7	ug/kg
EPA 8081A	Chlordane-gamma	BDL	3.7	ug/kg
EPA 8081A	Chlordane	BDL	3.7	ug/kg
EPA 8081A	4,4'-DDD	BDL	3.7	ug/kg
EPA 8081A	4,4'-DDE	BDL	3.7	ug/kg
EPA 8081A	4,4'-DDT	BDL	3.7	ug/kg
EPA 8081A	Dieldrin	BDL	3.7	ug/kg
EPA 8081A	Methoxychlor	BDL	19	ug/kg

gaw
2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116636-13**

January 18, 2000

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, SB-40-W, 01/05/2000, 18:00, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Volatile Organics			
EPA 8260B	Acetone	BDL	20	ug/L
EPA 8260B	Benzene	BDL	5	ug/L
EPA 8260B	2-Butanone	BDL	25	ug/L
EPA 8260B	Carbon tetrachloride	BDL	5	ug/L
EPA 8260B	Chlorobenzene	BDL	5	ug/L
EPA 8260B	Chloroethane	BDL	10	ug/L
EPA 8260B	Chloroform	BDL	5	ug/L
EPA 8260B	Chloromethane	BDL	3	ug/L
EPA 8260B	1,1-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,2-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,1-Dichloroethene	BDL	5	ug/L
EPA 8260B	cis-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	trans-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	Ethylbenzene	BDL	5	ug/L
EPA 8260B	Methylene chloride	BDL	5	ug/L
EPA 8260B	Tetrachloroethene	BDL	5	ug/L
EPA 8260B	Toluene	BDL	5	ug/L
EPA 8260B	1,1,1-Trichloroethane	BDL	5	ug/L
EPA 8260B	1,1,2-Trichloroethane	BDL	5	ug/L
EPA 8260B	Trichloroethene	BDL	5	ug/L
EPA 8260B	Trichlorofluoromethane	BDL	5	ug/L
EPA 8260B	Vinyl chloride	BDL	2	ug/L
EPA 8260B	Xylenes (total)	BDL	5	ug/L
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	10	ug/L

gaw
2/10/00

BDL - Below Detection Limit

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, SB-40-W, 01/05/2000, 18:00, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8270C	Acenaphthylene	BDL	10	ug/L
EPA 8270C	Anthracene	BDL	10	ug/L
EPA 8270C	Benzo(a)anthracene	BDL	10	ug/L
EPA 8270C	Benzo(b)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(k)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(ghi)perylene	BDL	10	ug/L
EPA 8270C	Benzo(a)pyrene	BDL	10	ug/L
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	10	ug/L
EPA 8270C	4-Bromophenyl phenyl ether	BDL	10	ug/L
EPA 8270C	Chrysene	BDL	10	ug/L
EPA 8270C	Dibenzo(a,h)anthracene	BDL	10	ug/L
EPA 8270C	Di-n-butylphthalate	BDL	10	ug/L
EPA 8270C	1,3-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,4-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,2-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	Diethylphthalate	BDL	10	ug/L
EPA 8270C	Fluoranthene	BDL	10	ug/L
EPA 8270C	Fluorene	BDL	10	ug/L
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	10	ug/L
EPA 8270C	Naphthalene	BDL	10	ug/L
EPA 8270C	Phenanthrene	BDL	10	ug/L
EPA 8270C	Pyrene	BDL	10	ug/L

gaw
2/10/00

BDL - Below Detection Limit

ASI ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

V YY P1/5

CLIENT NAME	LAW ENG + ENV SERVICES
CLIENT ADDRESS AND PHONE NUMBER	112 Town Park Drive (770) 421-3400 Kennesaw, GA 30144
PROJECT MANAGER	David Goershel
COPY TO (if applicable)	
REQUESTED COMPLETION DATE	1/8/00 (48 hr)
SAMPLING REQUIREMENTS	SDWA ☐ NPDES ☐ RCRA ☐ OTHER ☐ ____
PROJECT NAME	HUNTER AAF
PROJECT NUMBER	12001-9-3411
PURCHASE ORDER NO.	
FOR LAB USE ONLY	
LAB #	116636
PROJECT NO.	
ACK	VERIFIED
QUOTE #	BS
NO. OF SAMP	13
PG	1 OF 2

SAMPLE ID	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS	# OF CONTAINERS	ENCORE	VOCs - SW8260B	Moisture - D2216	PCB - SW 8082	Pesticide SW 8081A	SVOCs - SW8270B	LAB ID	REMARKS/ADDITIONAL INFORMATION
•	1/5/00	0920		X	X	SB-31-1	4	3		1				-1	48 hr TAT - SOIL
•	1/5/00	0930		X	X	SB-31-2	4	3		1				-2	48hr-TAT-SOIL
•	1/5/00	0955		X	X	SB-32-1	1				1			-3	48hr-TAT-SOIL
•	1/5/00	1000		X	X	SB-32-2	1				1			-4	48hr TAT-SOIL
•	1/5/00	1200		X	X	Duplicate D	1				1			-5	48hr TAT-SOIL
•	1/5/00	1140		X	X	SB-33-1	5	3		1	1			-6	48hr TAT-SOIL
•	1/5/00	1140		X	X	SB-33-1MS/MSD	1				1			-7 MS -8 MSD	48hr TAT-SOIL
•	1/5/00	1145		X	X	SB-33-2	5	3		1	1			-9	48hr TAT-SOIL
•	1/5/00	1215		X	X	SB-34-1	5	3		1	1	1		-10	48hr TAT-SOIL
•	1/5/00	1225		X	X	SB-34-2	5	3		1	1	1		-11	48hr TAT-SOIL
•	1/5/00	1430		X	X	Duplicate F	1					1		-12	48hr TAT-SOIL
•	1/5/00	1415		X	X	HMW-14R-1	5	3		1			1		14day TAT-SOIL
•	1/5/00	1440		X	X	HMW-14R-2	5	3		1			1		14day TAT-SOIL
•	1/5/00	1440		X	X	HMW-14R-2MS/MSD	5	3		1			1		14day TAT-SOIL
•	1/5/00	1520		X	X	SB-30-1	5	3		1			1		14day TAT-SOIL

SAMPLED BY AND TITLE	Thomas M. Keenan / Geologist	DATE/TIME	1/5/00
RECEIVED BY:	FED EX 813984611404	DATE/TIME	1/5/00 19:45
RECEIVED BY		DATE/TIME	
RECEIVED BY LAB		DATE/TIME	1/6/00 9:00
REMARKS			

RELINQUISHED BY		DATE/TIME	1/5/00 19:45
RELINQUISHED BY:		DATE/TIME	
RELINQUISHED BY:		DATE/TIME	
SAMPLE SHIPPED VIA	UPS BUS (FED-EX) HAND OTHER ____	AIR BILL #	813984611404

HAZWRAP/NEESA Y N
QC LEVEL 1 2 3
COC ✓ ICE ✓
ANA REQ TEMP 2.6 (corr.)
CUST SEAL ✓ PH N/A
SAMPLE COND. good

ENTERED INTO LIMS _____ COC REVIEWED _____

F-39

ASI ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201

V XT P1/5

CHAIN OF CUSTODY RECORD

CLIENT NAME: LAW ENG+ENV. SVCS
CLIENT ADDRESS AND PHONE NUMBER: 112 Town Park Drive Kennesaw, GA 30144 (770) 421-3400
PROJECT MANAGER: DAVID GOERSHEL
COPY TO (if applicable):
REQUESTED COMPLETION DATE: 1/8/00 (48hr)
SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ☐ ____

PROJECT NAME: Hunter AAF
PROJECT NUMBER: 12001-9-3411

PURCHASE ORDER NO.:
FOR LAB USE ONLY
LAB #: 116636
PROJECT NO.:
ACK: VERIFIED:
QUOTE #: BS:
NO. OF SAMP: 13 PG 2 OF 2

SAMPLE ID	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS	# OF CONTAINERS	VOCs-SW8260B Encore	SVOCs-SW8270C	Moisture D2216	VOCs SW8260B 40ml	SVOCs SW8270C IL Amber	LAB ID
•	1/5/00	1530		XX		SB-30-2	5	3	1	1			
	1/5/00	1800		X		SB-40-W	5				3	2	-13
•	1/5/00	1200				HAAFTB-W2	2				2		

REMARKS/ADDITIONAL INFORMATION:
14day TAT - Soil
48 Hr TAT - Water
14day TAT - Water

SAMPLED BY AND TITLE: Thomas A Reuter/Geologist	DATE/TIME: 1/5/00	RELINQUISHED BY:	DATE/TIME: 1/5/00 1945
RECEIVED BY: FEDEX 813984611404	DATE/TIME: 1/5/00 1945	RELINQUISHED BY:	DATE/TIME:
RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:
RECEIVED BY LAB:	DATE/TIME: 1/6/00 9:00	SAMPLE SHIPPED VIA: UPS BUS FED-EX HAND OTHER ____	AIR BILL #: 813984611404

HAZWRAP/NEESA Y N
QC LEVEL 1 2 3
COC ✓ ICE ✓
ANA REQ TEMP 2.6 (10:27)
CUST SEAL ✓ PH n/a
SAMPLE COND. good

REMARKS:

ENTERED INTO LIMS ____ COC REVIEWD ____

F-40

ASI ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS GA 30092
(770) 734-4200 • (770) 734-4201 FAX

January 17, 2000

Case Narrative ASI Sample 116641

Six Encore soil samples were collected on January 5, 2000 and arrived at ASI on January 6, 2000. One aqueous trip blank accompanied the samples. All conditions for proper preservation and shipment were met. Samples were logged into LIMS as ASI sample 116641 for analysis of VOC, BNA, and percent moisture. All soil samples were reported on a dry-weight basis. All holding times were met.

VOC in water were analyzed in batch 54683 using EPA method 8260. The LC recoveries were high for 2-butanone and chloromethane. The LCS was analyzed in duplicate and all other necessary measurement quality objectives were met.

VOC in soil were analyzed in batch 54765 using EPA method 8260. The LC recovery for total xylenes was slightly low but within control limits. Sample 116641-2 was re-analyzed at a 1:50 dilution. All other necessary measurement quality objectives were met for this batch.

Base/Neutrals and Acids in soil were analyzed in batch 54713 using EPA method 8270. Law Environmental samples 116641-3MS and -4MSD and 116731-2MS and -3MSD were analyzed. Recoveries for 116731-2MS and -3MSD were reported. The MS/MSD recoveries for pyrene were high. 116731-2MS and -3MSD were re-extracted and re-analyzed in order to confirm results. Sample 116641-6 was re-analyzed at a 1:50 dilution. All other necessary measurement quality objectives were met.

Percent moisture for the soil samples was analyzed in batch 54668. Sample 116641-1 was analyzed in duplicate and all necessary measurement quality objectives were met.

Callie Brinkley
Quality Assurance

ASI
ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116641-1**

January 18, 2000

Sample Description
Law Environmental
Soil, grab, Hunter AAF, Project #12001-9-3411, HMW-14R-1, 01/05/2000, 14:15, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	3.8	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	52	ug/kg
EPA 8260B	Benzene	BDL	5.2	ug/kg
EPA 8260B	2-Butanone	BDL	26	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.2	ug/kg
EPA 8260B	Chlorobenzene	BDL J	5.2	ug/kg
EPA 8260B	Chloroethane	BDL	10	ug/kg
EPA 8260B	Chloroform	BDL	5.2	ug/kg
EPA 8260B	Chloromethane	BDL	10	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.2	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.2	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.2	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.2	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.2	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.2	ug/kg
EPA 8260B	Methylene chloride	BDL	5.2	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.2	ug/kg
EPA 8260B	Toluene	BDL	5.2	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.2	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.2	ug/kg
EPA 8260B	Trichloroethene	BDL	5.2	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.2	ug/kg
EPA 8260B	Vinyl chloride	BDL	10	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.2	ug/kg

gaw
2/10/00

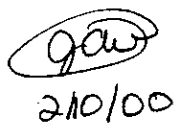
BDL - Below Detection Limit
Note: Results reported on dry-weight basis

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, HMW-14R-1, 01/05/2000, 14:15, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	340	ug/kg
EPA 8270C	Acenaphthylene	BDL	340	ug/kg
EPA 8270C	Anthracene	BDL	340	ug/kg
EPA 8270C	Benzo(a)anthracene	BDL	340	ug/kg
EPA 8270C	Benzo(b)fluoranthene	BDL	340	ug/kg
EPA 8270C	Benzo(k)fluoranthene	BDL	340	ug/kg
EPA 8270C	Benzo(ghi)perylene	BDL	340	ug/kg
EPA 8270C	Benzo(a)pyrene	BDL	340	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	340	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	340	ug/kg
EPA 8270C	Chrysene	BDL	340	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	BDL	340	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	340	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	340	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	340	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	340	ug/kg
EPA 8270C	Diethylphthalate	BDL	340	ug/kg
EPA 8270C	Fluoranthene	BDL	340	ug/kg
EPA 8270C	Fluorene	BDL	340	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	340	ug/kg.
EPA 8270C	Naphthalene	BDL	340	ug/kg
EPA 8270C	Phenanthrene	BDL	340	ug/kg
EPA 8270C	Pyrene	BDL	340	ug/kg



BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI
ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116641-2**

January 18, 2000

Sample Description
Law Environmental
Soil, grab, Hunter AAF, Project #12001-9-3411, HMW-14R-2, 01/05/2000, 14:40, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	8.2	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	54	ug/kg
EPA 8260B	Benzene	BDL	5.4	ug/kg
EPA 8260B	2-Butanone	BDL	27	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.4	ug/kg
EPA 8260B	Chlorobenzene	BDL J	5.4	ug/kg
EPA 8260B	Chloroethane	BDL	11	ug/kg
EPA 8260B	Chloroform	BDL	5.4	ug/kg
EPA 8260B	Chloromethane	BDL	11	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.4	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.4	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.4	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	270	5.4	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	13	5.4	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.4	ug/kg
EPA 8260B	Methylene chloride	BDL	5.4	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.4	ug/kg
EPA 8260B	Toluene	BDL	5.4	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.4	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.4	ug/kg
EPA 8260B	Trichloroethene	BDL	5.4	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.4	ug/kg
EPA 8260B	Vinyl chloride	BDL	11	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.4	ug/kg

gaw
2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, HMW-14R-2, 01/05/2000, 14:40, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	360	ug/kg
EPA 8270C	Acenaphthylene	BDL	360	ug/kg
EPA 8270C	Anthracene	BDL	360	ug/kg
EPA 8270C	Benzo(a)anthracene	BDL	360	ug/kg
EPA 8270C	Benzo(b)fluoranthene	BDL	360	ug/kg
EPA 8270C	Benzo(k)fluoranthene	BDL	360	ug/kg
EPA 8270C	Benzo(ghi)perylene	BDL	360	ug/kg
EPA 8270C	Benzo(a)pyrene	BDL	360	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	360	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	430	360	ug/kg
EPA 8270C	Chrysene	BDL	360	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	BDL	360	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	360	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	360	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	360	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	360	ug/kg
EPA 8270C	Diethylphthalate	BDL	360	ug/kg
EPA 8270C	Fluoranthene	BDL	360	ug/kg
EPA 8270C	Fluorene	BDL	360	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	360	ug/kg
EPA 8270C	Naphthalene	BDL	360	ug/kg
EPA 8270C	Phenanthrene	BDL	360	ug/kg
EPA 8270C	Pyrene	BDL	360	ug/kg

gaw
2/10/00

BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI
ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116641-5**

January 18, 2000

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, SB-30-1, 01/05/2000, 15:20, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	5.2	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	53	ug/kg
EPA 8260B	Benzene	BDL	5.3	ug/kg
EPA 8260B	2-Butanone	BDL	26	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.3	ug/kg
EPA 8260B	Chlorobenzene	BDL J	5.3	ug/kg
EPA 8260B	Chloroethane	BDL	11	ug/kg
EPA 8260B	Chloroform	BDL	5.3	ug/kg
EPA 8260B	Chloromethane	BDL	11	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.3	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.3	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.3	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.3	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.3	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.3	ug/kg
EPA 8260B	Methylene chloride	BDL	5.3	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.3	ug/kg
EPA 8260B	Toluene	BDL	5.3	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.3	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.3	ug/kg
EPA 8260B	Trichloroethene	BDL	5.3	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.3	ug/kg
EPA 8260B	Vinyl chloride	BDL	11	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.3	ug/kg

qaw
2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, SB-30-1, 01/05/2000, 15:20, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	350	ug/kg
EPA 8270C	Acenaphthylene	BDL	350	ug/kg
EPA 8270C	Anthracene	BDL	350	ug/kg
EPA 8270C	Benzo(a)anthracene	BDL	350	ug/kg
EPA 8270C	Benzo(b)fluoranthene	BDL	350	ug/kg
EPA 8270C	Benzo(k)fluoranthene	BDL	350	ug/kg
EPA 8270C	Benzo(ghi)perylene	BDL	350	ug/kg
EPA 8270C	Benzo(a)pyrene	BDL	350	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	350	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	350	ug/kg
EPA 8270C	Chrysene	BDL	350	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	BDL	350	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	350	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	350	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	350	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	350	ug/kg
EPA 8270C	Diethylphthalate	BDL	350	ug/kg
EPA 8270C	Fluoranthene	BDL	350	ug/kg
EPA 8270C	Fluorene	BDL	350	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	350	ug/kg
EPA 8270C	Naphthalene	BDL	350	ug/kg
EPA 8270C	Phenanthrene	BDL	350	ug/kg
EPA 8270C	Pyrene	BDL	350	ug/kg

gaw
2/10/00

BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI
ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116641-6**

January 18, 2000

Sample Description
Law Environmental
Soil, grab, Hunter AAF, Project #12001-9-3411, SB-30-2, 01/05/2000, 15:30, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	9.3	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	55	ug/kg
EPA 8260B	Benzene	BDL	5.5	ug/kg
EPA 8260B	2-Butanone	BDL	28	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.5	ug/kg
EPA 8260B	Chlorobenzene	BDL J	5.5	ug/kg
EPA 8260B	Chloroethane	BDL	11	ug/kg
EPA 8260B	Chloroform	BDL	5.5	ug/kg
EPA 8260B	Chloromethane	BDL	11	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.5	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.5	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.5	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.5	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.5	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.5	ug/kg
EPA 8260B	Methylene chloride	BDL	5.5	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.5	ug/kg
EPA 8260B	Toluene	BDL	5.5	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.5	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.5	ug/kg
EPA 8260B	Trichloroethene	BDL	5.5	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.5	ug/kg
EPA 8260B	Vinyl chloride	BDL	11	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.5	ug/kg

gaw
2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

Sample Description

Law Environmental

Soil, grab, Hunter AAF, Project #12001-9-3411, SB-30-2, 01/05/2000, 15:30, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	2300	1900	ug/kg
EPA 8270C	Acenaphthylene	6600	1900	ug/kg
EPA 8270C	Anthracene	5700	1900	ug/kg
EPA 8270C	Benzo(a)anthracene	18000	1900	ug/kg
EPA 8270C	Benzo(b)fluoranthene	13000	1900	ug/kg
EPA 8270C	Benzo(k)fluoranthene	12000	1900	ug/kg
EPA 8270C	Benzo(ghi)perylene	12000	1900	ug/kg
EPA 8270C	Benzo(a)pyrene	20000	1900	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	1900	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	1900	ug/kg
EPA 8270C	Chrysene	20000	1900	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	4200	1900	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	1900	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	1900	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	1900	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	1900	ug/kg
EPA 8270C	Diethylphthalate	BDL	1900	ug/kg
EPA 8270C	Fluoranthene	22000	1900	ug/kg
EPA 8270C	Fluorene	3700	1900	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	11000	1900	ug/kg
EPA 8270C	Naphthalene	BDL	1900	ug/kg
EPA 8270C	Phenanthrene	19000	1900	ug/kg
EPA 8270C	Pyrene	26000 J	1900	ug/kg

gaw
2/10/00

BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **116641-7**

January 18, 2000

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, HAAFTB, 01/05/2000, 12:00, received 01/06/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Volatile Organics			
EPA 8260B	Acetone	BDL	20	ug/L
EPA 8260B	Benzene	BDL	5	ug/L
EPA 8260B	2-Butanone	BDL	25	ug/L
EPA 8260B	Carbon tetrachloride	BDL	5	ug/L
EPA 8260B	Chlorobenzene	BDL	5	ug/L
EPA 8260B	Chloroethane	BDL	10	ug/L
EPA 8260B	Chloroform	BDL	5	ug/L
EPA 8260B	Chloromethane	BDL	3	ug/L
EPA 8260B	1,1-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,2-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,1-Dichloroethene	BDL	5	ug/L
EPA 8260B	cis-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	trans-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	Ethylbenzene	BDL	5	ug/L
EPA 8260B	Methylene chloride	BDL	5	ug/L
EPA 8260B	Tetrachloroethene	BDL	5	ug/L
EPA 8260B	Toluene	BDL	5	ug/L
EPA 8260B	1,1,1-Trichloroethane	BDL	5	ug/L
EPA 8260B	1,1,2-Trichloroethane	BDL	5	ug/L
EPA 8260B	Trichloroethene	BDL	5	ug/L
EPA 8260B	Trichlorofluoromethane	BDL	5	ug/L
EPA 8260B	Vinyl chloride	BDL	2	ug/L
EPA 8260B	Xylenes (total)	BDL	5	ug/L

2/10/00

BDL - Below Detection Limit

ASI ANALYTICA SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

V YY P1/5

| | | |

ASI ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
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V XT P1/5

CHAIN OF CUSTODY RECORD

CLIENT NAME: LAW ENG+ENV. SVCS
CLIENT ADDRESS AND PHONE NUMBER: 112 Town Park Drive Kennesaw, GA 30144 (770) 421-3400
PROJECT MANAGER: DAVID GOERSHEL
COPY TO (if applicable):
REQUESTED COMPLETION DATE: 1/8/00 (48hr)
SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ☐ ____

PROJECT NAME: Hunter AAF
PROJECT NUMBER: 12001-9-3411

SAMPLE ID	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS	# OF CONTAINERS	ANALYSES REQUESTED: ENCORE VOCs-SW8260B	VOCs-SW8270C	Moisture D2216	VOCs SW8260B 40ml	SVOCs SW8270C 1L Amber	LAB ID
•	1/5/00	1530		X	X	SB-30-2	5	3	1	1			
	1/5/00	1800		X		SB-40-W	5				3	2	-13
•	1/6/00	1200				HAAFTB-W2	2				2		

PURCHASE ORDER NO.
FOR LAB USE ONLY
LAB #: 116636
PROJECT NO.
ACK | VERIFIED
QUOTE # | BS
NO. OF SAMP: 13 | PG 2 | OF 2

REMARKS/ADDITIONAL INFORMATION:
14day TAT - Soil
48 Hr TAT - Water
14day TAT - Water

SAMPLED BY AND TITLE: Thomas M Powell/Geologist	DATE/TIME: 1/5/00	RELINQUISHED BY:	DATE/TIME: 1/5/00 1945
RECEIVED BY: FEDEX 813984611404	DATE/TIME: 1/5/00 1945	RELINQUISHED BY:	DATE/TIME:
RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:
RECEIVED BY LAB:	DATE/TIME: 1/6/00 7:00	SAMPLE SHIPPED VIA: UPS BUS (FED-EX) HAND OTHER ____	AIR BILL #: 813984611404

HAZWRAP/NEESA Y N
QC LEVEL 1 2 3
COC ✓ | ICE ✓
ANA REQ | TEMP 2.1 (1.7)
CUST SEAL ✓ | PH N/A
SAMPLE COND: Good

REMARKS:
ENTERED INTO LIMS ____ COC REVIEWD ____

F-52

ASI ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS GA 30092
(770) 734-4200 • (770) 734-4201 FAX

January 18, 2000

Case Narrative ASI Sample 116731

Eleven Encore soil samples were collected on January 6, 2000 and arrived at ASI on January 7, 2000. All conditions for proper preservation and shipment were met. Samples were logged into LIMS as ASI sample 116731 for analysis of VOC, BNA, pesticides, and percent moisture. All soil samples were reported on a dry-weight basis. All holding times were met.

Organochlorine pesticides in soil were analyzed in batch 54698 using EPA method 8081. A second LSC was analyzed to include a chlordane spike. The S1 surrogate recoveries were low for 116731-5 and -9 due to matrix interference. All other necessary measurement quality objectives were met for this batch.

Base/Neutrals and Acids in water were analyzed in batch 54713 using EPA method 8270. Law Environmental samples 116641-3MS and -4MSD and 116731-2MS and -3MSD were analyzed. Recoveries for 116731-2MS and -3MSD were reported. The MS/MSD recoveries for pyrene were high. 116731-2MS and -3MSD were re-extracted and re-analyzed in order to confirm results. Sample 116731-9 and -9 Dup were re-analyzed at a 1:10 dilution. Sample 116731-1 was re-extracted and re-analyzed twice in order to confirm results. All other necessary measurement quality objectives were met.

VOC in soil were analyzed in batch 54784 using EPA method 8260. The MS/MSD was analyzed in duplicate. MS recoveries were low for benzene, trichlorethene, toluene, and chlorobenzene. MSD recoveries were low for toluene and chlorobenzene. No dilutions were necessary and all other necessary measurement quality objectives were met for this batch.

Percent moisture was analyzed in batch 54744. Samples 116731-9 and -11 were analyzed in duplicate and all necessary measurement quality objectives were met.

Callie Brinkley
Quality Assurance

ASI
ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. Dave Goershel
Report No. **116731-1**

January 19, 2000

Sample Description

Law Environmental
Soil, Hunter AAF, Project #12001-9-3411, SB-35-1, 01/06/2000, 09:35, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	9.4	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	55	ug/kg
EPA 8260B	Benzene	BDL	5.5	ug/kg
EPA 8260B	2-Butanone	BDL	27	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.5	ug/kg
EPA 8260B	Chlorobenzene	BDL J	5.5	ug/kg
EPA 8260B	Chloroethane	BDL	11	ug/kg
EPA 8260B	Chloroform	BDL	5.5	ug/kg
EPA 8260B	Chloromethane	BDL	11	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.5	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.5	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.5	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.5	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.5	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.5	ug/kg
EPA 8260B	Methylene chloride	BDL	5.5	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.5	ug/kg
EPA 8260B	Toluene	BDL J	5.5	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.5	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.5	ug/kg
EPA 8260B	Trichloroethene	BDL	5.5	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.5	ug/kg
EPA 8260B	Vinyl chloride	BDL	11	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.5	ug/kg

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

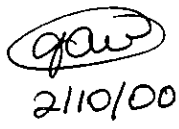
QA 2-10-2000

Sample Description

Law Environmental

Soil, Hunter AAF, Project #12001-9-3411, SB-35-1, 01/06/2000, 09:35, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	360	ug/kg
EPA 8270C	Acenaphthylene	BDL	360	ug/kg
EPA 8270C	Anthracene	BDL	360	ug/kg
EPA 8270C	Benzo(a)anthracene	BDL	360	ug/kg
EPA 8270C	Benzo(b)fluoranthene	BDL	360	ug/kg
EPA 8270C	Benzo(k)fluoranthene	BDL	360	ug/kg
EPA 8270C	Benzo(ghi)perylene	BDL	360	ug/kg
EPA 8270C	Benzo(a)pyrene	BDL	360	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	360	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	360	ug/kg
EPA 8270C	Chrysene	BDL	360	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	BDL	360	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	360	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	360	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	360	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	360	ug/kg
EPA 8270C	Diethylphthalate	BDL	360	ug/kg
EPA 8270C	Fluoranthene	500	360	ug/kg
EPA 8270C	Fluorene	BDL	360	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	360	ug/kg
EPA 8270C	Naphthalene	BDL	360	ug/kg
EPA 8270C	Phenanthrene	BDL	360	ug/kg
EPA 8270C	Pyrene	BDL	360	ug/kg
	Pesticides			
EPA 8081A	Chlordane-alpha	BDL	3.5	ug/kg
EPA 8081A	Chlordane-gamma	BDL	3.5	ug/kg
EPA 8081A	Chlordane	BDL	3.5	ug/kg
EPA 8081A	4,4'-DDD	BDL	3.5	ug/kg
EPA 8081A	4,4'-DDE	BDL	3.5	ug/kg
EPA 8081A	4,4'-DDT	BDL	3.5	ug/kg
EPA 8081A	Dieldrin	BDL	3.5	ug/kg
EPA 8081A	Methoxychlor	BDL	18	ug/kg



BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. Dave Goershel
Report No. **116731-4**

January 19, 2000

Sample Description
Law Environmental
Soil, Hunter AAF, Project #12001-9-3411, SB-35-2, 01/06/2000, 10:05, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	4.7	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	52	ug/kg
EPA 8260B	Benzene	BDL	5.2	ug/kg
EPA 8260B	2-Butanone	BDL	26	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.2	ug/kg
EPA 8260B	Chlorobenzene	BDL J	5.2	ug/kg
EPA 8260B	Chloroethane	BDL	10	ug/kg
EPA 8260B	Chloroform	BDL	5.2	ug/kg
EPA 8260B	Chloromethane	BDL	10	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.2	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.2	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.2	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.2	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.2	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.2	ug/kg
EPA 8260B	Methylene chloride	BDL	5.2	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.2	ug/kg
EPA 8260B	Toluene	BDL J	5.2	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.2	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.2	ug/kg
EPA 8260B	Trichloroethene	BDL	5.2	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.2	ug/kg
EPA 8260B	Vinyl chloride	BDL	10	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.2	ug/kg

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

2-10-2000

Sample Description

Law Environmental

Soil, Hunter AAF, Project #12001-9-3411, SB-35-2, 01/06/2000, 10:05, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	350	ug/kg
EPA 8270C	Acenaphthylene	BDL	350	ug/kg
EPA 8270C	Anthracene	BDL	350	ug/kg
EPA 8270C	Benzo(a)anthracene	BDL	350	ug/kg
EPA 8270C	Benzo(b)fluoranthene	BDL	350	ug/kg
EPA 8270C	Benzo(k)fluoranthene	BDL	350	ug/kg
EPA 8270C	Benzo(ghi)perylene	BDL	350	ug/kg
EPA 8270C	Benzo(a)pyrene	BDL	350	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	350	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	350	ug/kg
EPA 8270C	Chrysene	BDL	350	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	BDL	350	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	350	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	350	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	350	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	350	ug/kg
EPA 8270C	Diethylphthalate	BDL	350	ug/kg
EPA 8270C	Fluoranthene	BDL	350	ug/kg
EPA 8270C	Fluorene	BDL	350	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	350	ug/kg
EPA 8270C	Naphthalene	BDL	350	ug/kg
EPA 8270C	Phenanthrene	BDL	350	ug/kg
EPA 8270C	Pyrene	BDL	350	ug/kg
	Pesticides			
EPA 8081A	Chlordane-alpha	BDL	3.5	ug/kg
EPA 8081A	Chlordane-gamma	BDL	3.5	ug/kg
EPA 8081A	Chlordane	BDL	3.5	ug/kg
EPA 8081A	4,4'-DDD	BDL	3.5	ug/kg
EPA 8081A	4,4'-DDE	BDL	3.5	ug/kg
EPA 8081A	4,4'-DDT	BDL	3.5	ug/kg
EPA 8081A	Dieldrin	BDL	3.5	ug/kg
EPA 8081A	Methoxychlor	BDL	18	ug/kg

gaw
2/10/00

BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. Dave Goershel
Report No. **116731-5**

January 19, 2000

Sample Description
Law Environmental
Soil, Hunter AAF, Project #12001-9-3411, SB-36-1, 01/06/2000, 10:45, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	9.2	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	55	ug/kg
EPA 8260B	Benzene	BDL	5.5	ug/kg
EPA 8260B	2-Butanone	BDL	28	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.5	ug/kg
EPA 8260B	Chlorobenzene	BDL J	5.5	ug/kg
EPA 8260B	Chloroethane	BDL	11	ug/kg
EPA 8260B	Chloroform	BDL	5.5	ug/kg
EPA 8260B	Chloromethane	BDL	11	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.5	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.5	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.5	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.5	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.5	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.5	ug/kg
EPA 8260B	Methylene chloride	BDL	5.5	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.5	ug/kg
EPA 8260B	Toluene	BDL J	5.5	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.5	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.5	ug/kg
EPA 8260B	Trichloroethene	BDL	5.5	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.5	ug/kg
EPA 8260B	Vinyl chloride	BDL	11	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.5	ug/kg

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

2-10-2000

Sample Description

Law Environmental

Soil, Hunter AAF, Project #12001-9-3411, SB-36-1, 01/06/2000, 10:45, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	360	ug/kg
EPA 8270C	Acenaphthylene	970 J	360	ug/kg
EPA 8270C	Anthracene	870	360	ug/kg
EPA 8270C	Benzo(a)anthracene	8700	360	ug/kg
EPA 8270C	Benzo(b)fluoranthene	8700	360	ug/kg
EPA 8270C	Benzo(k)fluoranthene	8600	360	ug/kg
EPA 8270C	Benzo(ghi)perylene	5700	360	ug/kg
EPA 8270C	Benzo(a)pyrene	8900	360	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	360	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	360	ug/kg
EPA 8270C	Chrysene	8900	360	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	BDL	360	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	360	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	360	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	360	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	360	ug/kg
EPA 8270C	Diethylphthalate	BDL	360	ug/kg
EPA 8270C	Fluoranthene	11000	360	ug/kg
EPA 8270C	Fluorene	BDL	360	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	5700	360	ug/kg
EPA 8270C	Naphthalene	BDL	360	ug/kg
EPA 8270C	Phenanthrene	2400 J	360	ug/kg
EPA 8270C	Pyrene	10000 J	360	ug/kg
	Pesticides			
EPA 8081A	Chlordane-alpha	BDL	3.6	ug/kg
EPA 8081A	Chlordane-gamma	BDL	3.6	ug/kg
EPA 8081A	Chlordane	BDL	3.6	ug/kg
EPA 8081A	4,4'-DDD	BDL	3.6	ug/kg
EPA 8081A	4,4'-DDE	BDL	3.6	ug/kg
EPA 8081A	4,4'-DDT	BDL	3.6	ug/kg
EPA 8081A	Dieldrin	BDL	3.6	ug/kg
EPA 8081A	Methoxychlor	BDL	19	ug/kg

gaw
2/10/00

BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI
ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. Dave Goershel
Report No. **116731-6**

January 19, 2000

Sample Description
Law Environmental
Soil, Hunter AAF, Project #12001-9-3411, SB-36-2, 01/06/2000, 12:15, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	16	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	60	ug/kg
EPA 8260B	Benzene	BDL	6.0	ug/kg
EPA 8260B	2-Butanone	BDL	30	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	6.0	ug/kg
EPA 8260B	Chlorobenzene	BDL J	6.0	ug/kg
EPA 8260B	Chloroethane	BDL	12	ug/kg
EPA 8260B	Chloroform	BDL	6.0	ug/kg
EPA 8260B	Chloromethane	BDL	12	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	6.0	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	6.0	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	6.0	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	6.0	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	6.0	ug/kg
EPA 8260B	Ethylbenzene	BDL	6.0	ug/kg
EPA 8260B	Methylene chloride	BDL	6.0	ug/kg
EPA 8260B	Tetrachloroethene	BDL	6.0	ug/kg
EPA 8260B	Toluene	BDL J	6.0	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	6.0	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	6.0	ug/kg
EPA 8260B	Trichloroethene	BDL	6.0	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	6.0	ug/kg
EPA 8260B	Vinyl chloride	BDL	12	ug/kg
EPA 8260B	Xylenes (total)	BDL	6.0	ug/kg

gaw
2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

Sample Description

Law Environmental

Soil, Hunter AAF, Project #12001-9-3411, SB-36-2, 01/06/2000, 12:15, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	390	ug/kg
EPA 8270C	Acenaphthylene	BDL	390	ug/kg
EPA 8270C	Anthracene	BDL	390	ug/kg
EPA 8270C	Benzo(a)anthracene	BDL	390	ug/kg
EPA 8270C	Benzo(b)fluoranthene	BDL	390	ug/kg
EPA 8270C	Benzo(k)fluoranthene	BDL	390	ug/kg
EPA 8270C	Benzo(ghi)perylene	BDL	390	ug/kg
EPA 8270C	Benzo(a)pyrene	BDL	390	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	390	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	390	ug/kg
EPA 8270C	Chrysene	BDL	390	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	BDL	390	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	390	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	390	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	390	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	390	ug/kg
EPA 8270C	Diethylphthalate	BDL	390	ug/kg
EPA 8270C	Fluoranthene	BDL	390	ug/kg
EPA 8270C	Fluorene	BDL	390	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	390	ug/kg
EPA 8270C	Naphthalene	BDL	390	ug/kg
EPA 8270C	Phenanthrene	BDL	390	ug/kg
EPA 8270C	Pyrene	BDL	390	ug/kg

gaw
2/10/00

BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. Dave Goershel
Report No. **116731-7**

January 19, 2000

Sample Description
Law Environmental
Soil, Hunter AAF, Project #12001-9-3411, HMW-18-1, 01/06/2000, 12:55, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	22	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	64	ug/kg
EPA 8260B	Benzene	BDL	6.4	ug/kg
EPA 8260B	2-Butanone	BDL	32	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	6.4	ug/kg
EPA 8260B	Chlorobenzene	BDL J	6.4	ug/kg
EPA 8260B	Chloroethane	BDL	13	ug/kg
EPA 8260B	Chloroform	BDL	6.4	ug/kg
EPA 8260B	Chloromethane	BDL	13	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	6.4	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	6.4	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	6.4	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	6.4	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	6.4	ug/kg
EPA 8260B	Ethylbenzene	BDL	6.4	ug/kg
EPA 8260B	Methylene chloride	BDL	6.4	ug/kg
EPA 8260B	Tetrachloroethene	BDL	6.4	ug/kg
EPA 8260B	Toluene	BDL J	6.4	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	6.4	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	6.4	ug/kg
EPA 8260B	Trichloroethene	BDL	6.4	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	6.4	ug/kg
EPA 8260B	Vinyl chloride	BDL	13	ug/kg
EPA 8260B	Xylenes (total)	BDL	6.4	ug/kg

2-10-2000

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

Sample Description

Law Environmental

Soil, Hunter AAF, Project #12001-9-3411, HMW-18-1, 01/06/2000, 12:55, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	420	ug/kg
EPA 8270C	Acenaphthylene	BDL	420	ug/kg
EPA 8270C	Anthracene	BDL	420	ug/kg
EPA 8270C	Benzo(a)anthracene	BDL	420	ug/kg
EPA 8270C	Benzo(b)fluoranthene	BDL	420	ug/kg
EPA 8270C	Benzo(k)fluoranthene	BDL	420	ug/kg
EPA 8270C	Benzo(ghi)perylene	BDL	420	ug/kg
EPA 8270C	Benzo(a)pyrene	BDL	420	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	420	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	420	ug/kg
EPA 8270C	Chrysene	BDL	420	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	BDL	420	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	420	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	420	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	420	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	420	ug/kg
EPA 8270C	Diethylphthalate	BDL	420	ug/kg
EPA 8270C	Fluoranthene	BDL	420	ug/kg
EPA 8270C	Fluorene	BDL	420	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	420	ug/kg
EPA 8270C	Naphthalene	BDL	420	ug/kg
EPA 8270C	Phenanthrene	BDL	420	ug/kg
EPA 8270C	Pyrene	BDL	420	ug/kg
	Pesticides			
EPA 8081A	Chlordane-alpha	BDL	4.2	ug/kg
EPA 8081A	Chlordane-gamma	BDL	4.2	ug/kg
EPA 8081A	Chlordane	BDL	4.2	ug/kg
EPA 8081A	4,4'-DDD	BDL	4.2	ug/kg
EPA 8081A	4,4'-DDE	BDL	4.2	ug/kg
EPA 8081A	4,4'-DDT	BDL	4.2	ug/kg
EPA 8081A	Dieldrin	BDL	4.2	ug/kg
EPA 8081A	Methoxychlor	BDL	22	ug/kg

BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI
ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. Dave Goershel
Report No. **116731-8**

January 19, 2000

Sample Description
Law Environmental
Soil, Hunter AAF, Project #12001-9-3411, HMW-18-2, 01/06/2000, 13:05, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	14	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	58	ug/kg
EPA 8260B	Benzene	BDL	5.8	ug/kg
EPA 8260B	2-Butanone	BDL	29	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.8	ug/kg
EPA 8260B	Chlorobenzene	BDL J	5.8	ug/kg
EPA 8260B	Chloroethane	BDL	12	ug/kg
EPA 8260B	Chloroform	BDL	5.8	ug/kg
EPA 8260B	Chloromethane	BDL	12	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.8	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.8	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.8	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.8	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.8	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.8	ug/kg
EPA 8260B	Methylene chloride	BDL	5.8	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.8	ug/kg
EPA 8260B	Toluene	BDL J	5.8	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.8	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.8	ug/kg
EPA 8260B	Trichloroethene	BDL	5.8	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.8	ug/kg
EPA 8260B	Vinyl chloride	BDL	12	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.8	ug/kg

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

gpk 2-10-2000

Sample Description

Law Environmental

Soil, Hunter AAF, Project #12001-9-3411, HMW-18-2, 01/06/2000, 13:05, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	380	ug/kg
EPA 8270C	Acenaphthylene	BDL	380	ug/kg
EPA 8270C	Anthracene	BDL	380	ug/kg
EPA 8270C	Benzo(a)anthracene	BDL	380	ug/kg
EPA 8270C	Benzo(b)fluoranthene	BDL	380	ug/kg
EPA 8270C	Benzo(k)fluoranthene	BDL	380	ug/kg
EPA 8270C	Benzo(ghi)perylene	BDL	380	ug/kg
EPA 8270C	Benzo(a)pyrene	BDL	380	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	380	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	380	ug/kg
EPA 8270C	Chrysene	BDL	380	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	BDL	380	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	380	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	380	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	380	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	380	ug/kg
EPA 8270C	Diethylphthalate	BDL	380	ug/kg
EPA 8270C	Fluoranthene	BDL	380	ug/kg
EPA 8270C	Fluorene	BDL	380	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	380	ug/kg
EPA 8270C	Naphthalene	BDL	380	ug/kg
EPA 8270C	Phenanthrene	BDL	380	ug/kg
EPA 8270C	Pyrene	BDL	380	ug/kg

gaw
2/10/00

BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. Dave Goershel
Report No. **116731-9**

January 19, 2000

Sample Description

Law Environmental

Soil, Hunter AAF, Project #12001-9-3411, Duplicate C, 01/06/2000, 12:00, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	9.7	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	55	ug/kg
EPA 8260B	Benzene	BDL	5.5	ug/kg
EPA 8260B	2-Butanone	BDL	28	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.5	ug/kg
EPA 8260B	Chlorobenzene	BDL J	5.5	ug/kg
EPA 8260B	Chloroethane	BDL	11	ug/kg
EPA 8260B	Chloroform	BDL	5.5	ug/kg
EPA 8260B	Chloromethane	BDL	11	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.5	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.5	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.5	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.5	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.5	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.5	ug/kg
EPA 8260B	Methylene chloride	BDL	5.5	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.5	ug/kg
EPA 8260B	Toluene	BDL J	5.5	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.5	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.5	ug/kg
EPA 8260B	Trichloroethene	BDL	5.5	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.5	ug/kg
EPA 8260B	Vinyl chloride	BDL	11	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.5	ug/kg

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

qpH 2-10-2000

Sample Description

Law Environmental

Soil, Hunter AAF, Project #12001-9-3411, Duplicate C, 01/06/2000, 12:00, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	370	ug/kg
EPA 8270C	Acenaphthylene	720 J	370	ug/kg
EPA 8270C	Anthracene	990	370	ug/kg
EPA 8270C	Benzo(a)anthracene	8000	370	ug/kg
EPA 8270C	Benzo(b)fluoranthene	8600	370	ug/kg
EPA 8270C	Benzo(k)fluoranthene	8100	370	ug/kg
EPA 8270C	Benzo(ghi)perylene	5400	370	ug/kg
EPA 8270C	Benzo(a)pyrene	8700	370	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	370	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	370	ug/kg
EPA 8270C	Chrysene	8000	370	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	2100	370	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	370	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	370	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	370	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	370	ug/kg
EPA 8270C	Diethylphthalate	BDL	370	ug/kg
EPA 8270C	Fluoranthene	11000	370	ug/kg
EPA 8270C	Fluorene	BDL	370	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	5200	370	ug/kg
EPA 8270C	Naphthalene	BDL	370	ug/kg
EPA 8270C	Phenanthrene	3600 J	370	ug/kg
EPA 8270C	Pyrene	9700 J	370	ug/kg
	Pesticides			
EPA 8081A	Chlordane-alpha	BDL	3.7	ug/kg
EPA 8081A	Chlordane-gamma	BDL	3.7	ug/kg
EPA 8081A	Chlordane	BDL	3.7	ug/kg
EPA 8081A	4,4'-DDD	BDL	3.7	ug/kg
EPA 8081A	4,4'-DDE	BDL	3.7	ug/kg
EPA 8081A	4,4'-DDT	BDL	3.7	ug/kg
EPA 8081A	Dieldrin	BDL	3.7	ug/kg
EPA 8081A	Methoxychlor	BDL	19	ug/kg

qaw
2/10/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. Dave Goershel
Report No. **116731-10**

January 19, 2000

Sample Description
Law Environmental
Soil, Hunter AAF, Project #12001-9-3411, SB-37-1, 01/06/2000, 13:30, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	11	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	56	ug/kg
EPA 8260B	Benzene	BDL	5.6	ug/kg
EPA 8260B	2-Butanone	BDL	28	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	5.6	ug/kg
EPA 8260B	Chlorobenzene	BDL J	5.6	ug/kg
EPA 8260B	Chloroethane	BDL	11	ug/kg
EPA 8260B	Chloroform	BDL	5.6	ug/kg
EPA 8260B	Chloromethane	BDL	11	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	5.6	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	5.6	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	5.6	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	5.6	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	5.6	ug/kg
EPA 8260B	Ethylbenzene	BDL	5.6	ug/kg
EPA 8260B	Methylene chloride	BDL	5.6	ug/kg
EPA 8260B	Tetrachloroethene	BDL	5.6	ug/kg
EPA 8260B	Toluene	BDL J	5.6	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	5.6	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	5.6	ug/kg
EPA 8260B	Trichloroethene	BDL	5.6	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	5.6	ug/kg
EPA 8260B	Vinyl chloride	BDL	11	ug/kg
EPA 8260B	Xylenes (total)	BDL	5.6	ug/kg

opt 2-10-2000

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

Sample Description

Law Environmental

Soil, Hunter AAF, Project #12001-9-3411, SB-37-1, 01/06/2000, 13:30, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	370	ug/kg
EPA 8270C	Acenaphthylene	BDL	370	ug/kg
EPA 8270C	Anthracene	BDL	370	ug/kg
EPA 8270C	Benzo(a)anthracene	BDL	370	ug/kg
EPA 8270C	Benzo(b)fluoranthene	BDL	370	ug/kg
EPA 8270C	Benzo(k)fluoranthene	BDL	370	ug/kg
EPA 8270C	Benzo(ghi)perylene	BDL	370	ug/kg
EPA 8270C	Benzo(a)pyrene	BDL	370	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	370	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	370	ug/kg
EPA 8270C	Chrysene	BDL	370	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	BDL	370	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	370	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	370	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	370	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	370	ug/kg
EPA 8270C	Diethylphthalate	BDL	370	ug/kg
EPA 8270C	Fluoranthene	BDL	370	ug/kg
EPA 8270C	Fluorene	BDL	370	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	370	ug/kg
EPA 8270C	Naphthalene	BDL	370	ug/kg
EPA 8270C	Phenanthrene	BDL	370	ug/kg
EPA 8270C	Pyrene	BDL	370	ug/kg
	Pesticides			
EPA 8081A	Chlordane-alpha	BDL	3.7	ug/kg
EPA 8081A	Chlordane-gamma	BDL	3.7	ug/kg
EPA 8081A	Chlordane	BDL	3.7	ug/kg
EPA 8081A	4,4'-DDD	BDL	3.7	ug/kg
EPA 8081A	4,4'-DDE	BDL	3.7	ug/kg
EPA 8081A	4,4'-DDT	BDL	3.7	ug/kg
EPA 8081A	Dieldrin	BDL	3.7	ug/kg
EPA 8081A	Methoxychlor	BDL	19	ug/kg

BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. Dave Goershel
Report No. **116731-11**

January 19, 2000

Sample Description

Law Environmental

Soil, Hunter AAF, Project #12001-9-3411, SB-37-2, 01/06/2000, 13:45, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	18	0.04	%
	Volatile Organics			
EPA 8260B	Acetone	BDL	61	ug/kg
EPA 8260B	Benzene	BDL	6.1	ug/kg
EPA 8260B	2-Butanone	BDL	30	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	6.1	ug/kg
EPA 8260B	Chlorobenzene	BDL J	6.1	ug/kg
EPA 8260B	Chloroethane	BDL	12	ug/kg
EPA 8260B	Chloroform	BDL	6.1	ug/kg
EPA 8260B	Chloromethane	BDL	12	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	6.1	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	6.1	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	6.1	ug/kg
EPA 8260B	cis-1,2-Dichloroethene	BDL	6.1	ug/kg
EPA 8260B	trans-1,2-Dichloroethene	BDL	6.1	ug/kg
EPA 8260B	Ethylbenzene	BDL	6.1	ug/kg
EPA 8260B	Methylene chloride	BDL	6.1	ug/kg
EPA 8260B	Tetrachloroethene	BDL	6.1	ug/kg
EPA 8260B	Toluene	BDL J	6.1	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	6.1	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	6.1	ug/kg
EPA 8260B	Trichloroethene	BDL	6.1	ug/kg
EPA 8260B	Trichlorofluoromethane	BDL	6.1	ug/kg
EPA 8260B	Vinyl chloride	BDL	12	ug/kg
EPA 8260B	Xylenes (total)	BDL	6.1	ug/kg

gaw 2-10 2000

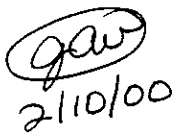
BDL - Below Detection Limit
Note: Results reported on dry-weight basis

Sample Description

Law Environmental

Soil, Hunter AAF, Project #12001-9-3411, SB-37-2, 01/06/2000, 13:45, received 01/07/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	400	ug/kg
EPA 8270C	Acenaphthylene	BDL	400	ug/kg
EPA 8270C	Anthracene	BDL	400	ug/kg
EPA 8270C	Benzo(a)anthracene	BDL	400	ug/kg
EPA 8270C	Benzo(b)fluoranthene	BDL	400	ug/kg
EPA 8270C	Benzo(k)fluoranthene	BDL	400	ug/kg
EPA 8270C	Benzo(ghi)perylene	BDL	400	ug/kg
EPA 8270C	Benzo(a)pyrene	BDL	400	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	400	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	400	ug/kg
EPA 8270C	Chrysene	BDL	400	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	BDL	400	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	400	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	400	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	400	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	400	ug/kg
EPA 8270C	Diethylphthalate	BDL	400	ug/kg
EPA 8270C	Fluoranthene	BDL	400	ug/kg
EPA 8270C	Fluorene	BDL	400	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	400	ug/kg
EPA 8270C	Naphthalene	BDL	400	ug/kg
EPA 8270C	Phenanthrene	BDL	400	ug/kg
EPA 8270C	Pyrene	BDL	400	ug/kg



BDL - Below Detection Limit

Note: Results reported on dry-weight basis

ASI ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201

V I T I

CHAIN OF CUSTODY RECORD

CLIENT NAME: LAW ENGINEERING & ENV SERVICES
CLIENT ADDRESS AND PHONE NUMBER: 112 TOWN PARK DR KENNESAW GA 30144 770-421-3400
PROJECT MANAGER: DAVE GOERSHAL
COPY TO (if applicable):
REQUESTED COMPLETION DATE: STANDARD TAT
SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ☐

PROJECT NAME: HUNTER AAF
PROJECT NUMBER: 12001-9-3411

PURCHASE ORDER NO.

FOR LAB USE ONLY
LAB #: 116731
PROJECT NO.
ACK | VERIFIED
QUOTE # | BS
NO. OF SAMP: 10 | PG: 1 | OF: 1

SAMPLE ID	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS	# OF CONTAINERS	D7216 Moisture	SW8260B VOCs - ENCORE	SW8270C SVOCs	SW8081A Pests.	LAB ID
	1/6/00	09:35			X	SB-35-1	6	1	3	1	1	-1
	1/6/00	09:35			X	SB-35-1MS/MSD	6	1	3	1	1	-2MS -3MSD
	1/6/00	10:05			X	SB-35-2	6	1	3	1	1	-4
	1/6/00	10:45			X	SB-36-1	6	1	3	1	1	-5
	1/6/00	12:15			X	SB-36-2	5	1	3	1		-6
	1/6/00	12:55			X	HMW-18-1	6	1	3	1	1	-7
	1/6/00	13:05			X	HMW-18-2	5	1	3	1		-8
	1/6/00	12:00			X	DUPLICATE C	6	1	3	1	1	-9
	1/6/00	13:30			X	SB-37-1	6	1	3	1	1	-10
	1/6/00	13:45			X	SB-37-2	5	1	3	1		-11

REMARKS/ADDITIONAL INFORMATION

SAMPLED BY AND TITLE: THOMAS M. KELLER/GEO	DATE/TIME: 1/6/00	RELINQUISHED BY:	DATE/TIME: 1/6/00 19:45
RECEIVED BY: FED-EX #813984611220	DATE/TIME: 1/6/00 19:45	RELINQUISHED BY:	DATE/TIME:
RECEIVED BY	DATE/TIME	RELINQUISHED BY:	DATE/TIME
RECEIVED BY LAB	DATE/TIME: 1/7/00 0915	SAMPLE SHIPPED VIA: UPS BUS FED-EX HAND OTHER	AIR BILL #
REMARKS:	1/7/00	ENTERED INTO LIMS	COC REVIEWD

HAZWRAP/NEESA Y N
QC LEVEL 1 2 3
COC ✓ | ICE ✓
ANA REQ | TEMP 4°C (11:30)
CUST SEAL intact | PH = n/a
SAMPLE COND. good

F-72

ASI ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS GA 30092
(770) 734-4200 • (770) 734-4201 FAX

January 28, 2000

Case Narrative ASI Sample 117186

Five water samples were collected on January 17, 2000 and arrived at ASI on January 18, 2000. One equipment blank and two QC samples were included. All conditions for proper preservation and shipment were met. Samples were logged into LIMS as ASI sample 117186 for analysis of VOA, BNA, and metals.

Base/Neutrals and Acids were analyzed in batch 54908 using EPA method 8270. Recoveries were high for the LC for several compounds. All non-QC sample results for BNA were BDL. All other necessary measurement quality objectives were met.

Volatile organics were analyzed in batch 55047 using EPA method 8260. LC recoveries were low for acetone and 2-butanone; the LCD recoveries were within acceptance range. The LC/LCD RPDs were high for acetone and 2-butanone. Samples 117186-1, -2, and -3 were analyzed at a 1:5 dilution. All other necessary measurement quality objectives were met for VOA analysis.

Lead was analyzed in batch 54383 using GFAA EPA method 7421. Arsenic and barium were analyzed in batch 54391 using ICP EPA method 6010. Samples were redigested to include client-specific QC samples. The MSD recovery was low for arsenic and the MS/MSD recoveries were low for barium. All other measurement quality objectives were met for metals.

Callie Brinkley
Quality Assurance

RECEIVED
FEB 02, 2000
LAW ENVIRONMENTAL

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ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **117186-1**

January 31, 2000

Sample Description

Law Environmental
Water, grab, Hunter AAF, Project #12001-9-3411, HMW-14R, 01/17/2000, 15:38, received 01/18/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Metals			
EPA 6010	Total Arsenic (As)	BDL	10	ug/L
EPA 6010	Total Barium (Ba)	48 J	20	ug/L
EPA 7421	Total Lead (Pb)	BDL	3	ug/L
	Volatile Organics			
EPA 8260B	Acetone	BDL	20	ug/L
EPA 8260B	Benzene	BDL	5	ug/L
EPA 8260B	2-Butanone	BDL	25	ug/L
EPA 8260B	Carbon tetrachloride	BDL	5	ug/L
EPA 8260B	Chlorobenzene	BDL	5	ug/L
EPA 8260B	Chloroethane	BDL	10	ug/L
EPA 8260B	Chloroform	BDL	5	ug/L
EPA 8260B	Chloromethane	BDL	3	ug/L
EPA 8260B	1,1-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,2-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,1-Dichloroethene	BDL	5	ug/L
EPA 8260B	cis-1,2-Dichloroethene	220	5	ug/L
EPA 8260B	trans-1,2-Dichloroethene	9	5	ug/L
EPA 8260B	Ethylbenzene	BDL	5	ug/L
EPA 8260B	Methylene chloride	BDL	5	ug/L
EPA 8260B	Tetrachloroethene	BDL	5	ug/L
EPA 8260B	Toluene	BDL	5	ug/L
EPA 8260B	1,1,1-Trichloroethane	BDL	5	ug/L
EPA 8260B	1,1,2-Trichloroethane	BDL	5	ug/L
EPA 8260B	Trichloroethene	BDL	5	ug/L
EPA 8260B	Trichlorofluoromethane	BDL	5	ug/L

qaw
2/10/00

BDL - Below Detection Limit

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, HMW-14R, 01/17/2000, 15:38, received 01/18/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8260B	Vinyl chloride	BDL	2	ug/L
EPA 8260B	Xylenes (total)	BDL	5	ug/L
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	10	ug/L
EPA 8270C	Acenaphthylene	BDL	10	ug/L
EPA 8270C	Anthracene	BDL	10	ug/L
EPA 8270C	Benzo(a)anthracene	BDL	10	ug/L
EPA 8270C	Benzo(b)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(k)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(ghi)perylene	BDL	10	ug/L
EPA 8270C	Benzo(a)pyrene	BDL	10	ug/L
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	10	ug/L
EPA 8270C	4-Bromophenyl phenyl ether	BDL	10	ug/L
EPA 8270C	Chrysene	BDL	10	ug/L
EPA 8270C	Dibenzo(a,h)anthracene	BDL	10	ug/L
EPA 8270C	Di-n-butylphthalate	BDL	10	ug/L
EPA 8270C	1,3-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,4-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,2-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	Diethylphthalate	BDL	10	ug/L
EPA 8270C	Fluoranthene	BDL	10	ug/L
EPA 8270C	Fluorene	BDL	10	ug/L
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	10	ug/L
EPA 8270C	Naphthalene	BDL	10	ug/L
EPA 8270C	Phenanthrene	BDL	10	ug/L
EPA 8270C	Pyrene	BDL	10	ug/L

gaw
2/10/00

BDL - Below Detection Limit

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ANALYTICAL SERVICES, INC.

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110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **117186-4**

January 31, 2000

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, HMW-2, 01/16/2000, 13:47, received 01/18/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Metals			
EPA 7421	Total Lead (Pb)	BDL	3	ug/L

gaw
2/10/00

BDL - Below Detection Limit

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **117186-5**

January 31, 2000

Sample Description

Law Environmental
Water, grab, Hunter AAF, Project #12001-9-3411, Equipment Blank, 01/16/2000, 11:17, received 01/18/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Metals			
EPA 6010	Total Arsenic (As)	BDL	10	ug/L
EPA 6010	Total Barium (Ba)	BDL	20	ug/L
EPA 7421	Total Lead (Pb)	BDL	3	ug/L
	Volatile Organics			
EPA 8260B	Acetone	BDL	20	ug/L
EPA 8260B	Benzene	BDL	5	ug/L
EPA 8260B	2-Butanone	BDL	25	ug/L
EPA 8260B	Carbon tetrachloride	BDL	5	ug/L
EPA 8260B	Chlorobenzene	BDL	5	ug/L
EPA 8260B	Chloroethane	BDL	10	ug/L
EPA 8260B	Chloroform	BDL	5	ug/L
EPA 8260B	Chloromethane	BDL	3	ug/L
EPA 8260B	1,1-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,2-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,1-Dichloroethene	BDL	5	ug/L
EPA 8260B	cis-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	trans-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	Ethylbenzene	BDL	5	ug/L
EPA 8260B	Methylene chloride	BDL	5	ug/L
EPA 8260B	Tetrachloroethene	BDL	5	ug/L
EPA 8260B	Toluene	BDL	5	ug/L
EPA 8260B	1,1,1-Trichloroethane	BDL	5	ug/L
EPA 8260B	1,1,2-Trichloroethane	BDL	5	ug/L
EPA 8260B	Trichloroethene	BDL	5	ug/L
EPA 8260B	Trichlorofluoromethane	BDL	5	ug/L

gas
2/10/00

BDL - Below Detection Limit

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, Equipment Blank, 01/16/2000, 11:17, received 01/18/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8260B	Vinyl chloride	BDL	2	ug/L
EPA 8260B	Xylenes (total)	BDL	5	ug/L
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	10	ug/L
EPA 8270C	Acenaphthylene	BDL	10	ug/L
EPA 8270C	Anthracene	BDL	10	ug/L
EPA 8270C	Benzo(a)anthracene	BDL	10	ug/L
EPA 8270C	Benzo(b)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(k)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(ghi)perylene	BDL	10	ug/L
EPA 8270C	Benzo(a)pyrene	BDL	10	ug/L
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	10	ug/L
EPA 8270C	4-Bromophenyl phenyl ether	BDL	10	ug/L
EPA 8270C	Chrysene	BDL	10	ug/L
EPA 8270C	Dibenzo(a,h)anthracene	BDL	10	ug/L
EPA 8270C	Di-n-butylphthalate	BDL	10	ug/L
EPA 8270C	1,3-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,4-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,2-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	Diethylphthalate	BDL	10	ug/L
EPA 8270C	Fluoranthene	BDL	10	ug/L
EPA 8270C	Fluorene	BDL	10	ug/L
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	10	ug/L
EPA 8270C	Naphthalene	BDL	10	ug/L
EPA 8270C	Phenanthrene	BDL	10	ug/L
EPA 8270C	Pyrene	BDL	10	ug/L

gaw
2/10/00

BDL - Below Detection Limit

ASI ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201

V282

CHAIN OF CUSTODY RECORD

CLIENT NAME: Law Gibb
CLIENT ADDRESS AND PHONE NUMBER: 112 Town park DR. Kennesaw, GA 30144
PROJECT MANAGER: MR David
COPY TO (if applicable): Judy Hartness
REQUESTED COMPLETION DATE:
SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ☐

PROJECT NAME: Hunter AAF
PROJECT NUMBER: 12001-9-3411

SAMPLE ID	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS	# OF CONTAINERS	5030B/8260B (VOC)	3520C/8270C SVOC	METALS 6010B	METALS 7470A	LAB ID
1	1/16/00	1347		X		HMW-2	1				1	-4
2	↓	1117		X		Equipment Blank	6	3	2	1		-5

PURCHASE ORDER NO.

FOR LAB USE ONLY
LAB # 117186
PROJECT NO.
ACK | VERIFIED
QUOTE # | BS
NO. OF SAMP 5 | PG 2 | OF 2

REMARKS/ADDITIONAL INFORMATION
* PS. Call PM For Turn around time on Analysis 770-421-3400

SAMPLED BY AND TITLE: Victor Clarke	DATE/TIME: 1-17-00 18:30	RELINQUISHED BY	DATE/TIME: 1-17-00 18:30
RECEIVED BY	DATE/TIME	RELINQUISHED BY	DATE/TIME
RECEIVED BY	DATE/TIME	RELINQUISHED BY	DATE/TIME
RECEIVED BY LAB	DATE/TIME: 1/18/00 09:00	SAMPLE SHIPPED VIA: UPS BUS FED-EX HAND OTHER	AIR BILL #: 813 984 611 047
REMARKS		ENTERED INTO LIMS	COC REVIEWED

HAZWRAP/NEESA Y N
QC LEVEL 1 2 3
COC | ICE
ANA REQ | TEMP
CUST SEAL | PH
SAMPLE COND

F-79

ASI ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201

V 2 P2

CHAIN OF CUSTODY RECORD

CLIENT NAME: Law Gibb
CLIENT ADDRESS AND PHONE NUMBER: 112 Town park DR. Kennesaw GA 30144 (770) 421-3400
PROJECT MANAGER: MR David Go
COPY TO (if applicable): Judy Hartness
REQUESTED COMPLETION DATE:
SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ☐ ____

PROJECT NAME: Hunter AAF
PROJECT NUMBER: 12001-9-341

PURCHASE ORDER NO.:

FOR LAB USE ONLY
LAB #: 117186
PROJECT NO.:
ACK: VERIFIED:
QUOTE #: BS:
NO. OF SAMP: 5 PG: 1 OF: 2

SAMPLE ID	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS	# OF CONTAINERS	5030B/8260B (VOC)	3520C/8270C SVOC	METALS As, Sb, Pb D	LAB ID	REMARKS/ADDITIONAL INFORMATION
1	1/17/00	15:38		X		HMW-14R	6	3	2	1	-1	(MS/MSD)
2	↓	15:38				HMW-14R-WMS	6	3	2	1	-2	(MS/MSD)
3	↓	15:38				HMW-14R-WMSD	6	3	2	1	-3	(MS/MSD)
~~4~~												*PS) call PM For Turn around Time on analysis

F-80

SAMPLED BY AND TITLE: Victor Clarke
DATE/TIME: 1-17-00 18:30
RELINQUISHED BY:
DATE/TIME: 1/17/00 18:30

RECEIVED BY:
DATE/TIME:
RELINQUISHED BY:
DATE/TIME:

RECEIVED BY:
DATE/TIME:
RELINQUISHED BY:
DATE/TIME:

RECEIVED BY LAB:
DATE/TIME: 1/18/00 0930
SAMPLE SHIPPED VIA: UPS BUS FED-EX HAND OTHER ____
AIR BILL # 813 984 611 047

REMARKS:

HAZWRAP/NEESA Y N
QC LEVEL 1 2 3
COC ✓ ICE
AHA REQ TEMP 4°C (0830)
CUST SEAL NO PH 1 (MEST)
SAMPLE COND Good

ENTERED INTO LIMS: ____ COC REVIEWED: ____

ASI ANALYTICAL SERVICES, INC.
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January 31, 2000

Case Narrative ASI Sample 117309

Two water samples were collected on January 19, 2000 and arrived at ASI on January 20, 2000. All conditions for proper preservation and shipment were met. Samples were logged into LIMS as ASI sample 117309 for analysis of VOA, BNA, and metals.

Base/Neutrals and Acids were analyzed in batch 54993 using EPA method 8270. Recoveries for several compounds in the LC were outside of acceptance limits. All recoveries were within control limits with the exception of indeno(1,2,3)pyrene which was slightly high. All sample results for BNA were BDL. All other necessary measurement quality objectives were met.

Volatile organics were analyzed in batch 55080 using EPA method 8260. The LCSD was re-analyzed for better recoveries within a 24 hour period. Sample 117309-2 was used for the MS/MSD and all other necessary measurement quality objectives were met for VOA analysis.

Lead was analyzed in batch 54363 using GFAA EPA method 7421. Arsenic and barium were analyzed in batch 54391 using ICP EPA method 6010. Samples were redigested in batch 54391 to include client-specific QC samples. The MSD recovery was low for arsenic and the MS/MSD recoveries were low for barium. All other measurement quality objectives were met for metals.

Callie Brinkley
Quality Assurance

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **117309-1**

January 31, 2000

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, HMW-20, 01/19/2000, 15:07, received 01/20/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Metals			
EPA 6010	Total Arsenic (As)	BDL	10	ug/L
EPA 6010	Total Barium (Ba)	BDL J	20	ug/L
EPA 7421	Total Lead (Pb)	BDL	3	ug/L
	Volatile Organics			
EPA 8260B	Acetone	BDL	20	ug/L
EPA 8260B	Benzene	BDL	5	ug/L
EPA 8260B	2-Butanone	BDL	25	ug/L
EPA 8260B	Carbon tetrachloride	BDL	5	ug/L
EPA 8260B	Chlorobenzene	BDL	5	ug/L
EPA 8260B	Chloroethane	BDL	10	ug/L
EPA 8260B	Chloroform	BDL	5	ug/L
EPA 8260B	Chloromethane	BDL	3	ug/L
EPA 8260B	1,1-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,2-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,1-Dichloroethene	BDL	5	ug/L
EPA 8260B	cis-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	trans-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	Ethylbenzene	BDL	5	ug/L
EPA 8260B	Methylene chloride	BDL	5	ug/L
EPA 8260B	Tetrachloroethene	BDL	5	ug/L
EPA 8260B	Toluene	BDL	5	ug/L
EPA 8260B	1,1,1-Trichloroethane	BDL	5	ug/L
EPA 8260B	1,1,2-Trichloroethane	BDL	5	ug/L
EPA 8260B	Trichloroethene	BDL	5	ug/L
EPA 8260B	Trichlorofluoromethane	BDL	5	ug/L

qcw
2/10/00

BDL - Below Detection Limit

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, HMW-20, 01/19/2000, 15:07, received 01/20/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8260B	Vinyl chloride	BDL	2	ug/L
EPA 8260B	Xylenes (total)	BDL	5	ug/L
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	10	ug/L
EPA 8270C	Acenaphthylene	BDL	10	ug/L
EPA 8270C	Anthracene	BDL	10	ug/L
EPA 8270C	Benzo(a)anthracene	BDL	10	ug/L
EPA 8270C	Benzo(b)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(k)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(ghi)perylene	BDL	10	ug/L
EPA 8270C	Benzo(a)pyrene	BDL	10	ug/L
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	10	ug/L
EPA 8270C	4-Bromophenyl phenyl ether	BDL	10	ug/L
EPA 8270C	Chrysene	BDL	10	ug/L
EPA 8270C	Dibenzo(a,h)anthracene	BDL	10	ug/L
EPA 8270C	Di-n-butylphthalate	BDL	10	ug/L
EPA 8270C	1,3-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,4-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,2-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	Diethylphthalate	BDL	10	ug/L
EPA 8270C	Fluoranthene	BDL	10	ug/L
EPA 8270C	Fluorene	BDL	10	ug/L
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	10	ug/L
EPA 8270C	Naphthalene	BDL	10	ug/L
EPA 8270C	Phenanthrene	BDL	10	ug/L
EPA 8270C	Pyrene	BDL	10	ug/L

2/10/00

BDL - Below Detection Limit

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **117309-2**

January 31, 2000

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, HMW-17, 01/19/2000, 15:09, received 01/20/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Metals			
EPA 6010	Total Arsenic (As)	BDL	10	ug/L
EPA 6010	Total Barium (Ba)	BDL J	20	ug/L
EPA 7421	Total Lead (Pb)	BDL	3	ug/L
	Volatile Organics			
EPA 8260B	Acetone	BDL	20	ug/L
EPA 8260B	Benzene	BDL	5	ug/L
EPA 8260B	2-Butanone	BDL	25	ug/L
EPA 8260B	Carbon tetrachloride	BDL	5	ug/L
EPA 8260B	Chlorobenzene	BDL	5	ug/L
EPA 8260B	Chloroethane	BDL	10	ug/L
EPA 8260B	Chloroform	BDL	5	ug/L
EPA 8260B	Chloromethane	BDL	3	ug/L
EPA 8260B	1,1-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,2-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,1-Dichloroethene	BDL	5	ug/L
EPA 8260B	cis-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	trans-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	Ethylbenzene	BDL	5	ug/L
EPA 8260B	Methylene chloride	BDL	5	ug/L
EPA 8260B	Tetrachloroethene	BDL	5	ug/L
EPA 8260B	Toluene	BDL	5	ug/L
EPA 8260B	1,1,1-Trichloroethane	BDL	5	ug/L
EPA 8260B	1,1,2-Trichloroethane	BDL	5	ug/L
EPA 8260B	Trichloroethene	BDL	5	ug/L
EPA 8260B	Trichlorofluoromethane	BDL	5	ug/L

qaw
2/10/00

BDL - Below Detection Limit

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, HMW-17, 01/19/2000, 15:09, received 01/20/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8260B	Vinyl chloride	BDL	2	ug/L
EPA 8260B	Xylenes (total)	BDL	5	ug/L
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	10	ug/L
EPA 8270C	Acenaphthylene	BDL	10	ug/L
EPA 8270C	Anthracene	BDL	10	ug/L
EPA 8270C	Benzo(a)anthracene	BDL	10	ug/L
EPA 8270C	Benzo(b)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(k)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(ghi)perylene	BDL	10	ug/L
EPA 8270C	Benzo(a)pyrene	BDL	10	ug/L
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	10	ug/L
EPA 8270C	4-Bromophenyl phenyl ether	BDL	10	ug/L
EPA 8270C	Chrysene	BDL	10	ug/L
EPA 8270C	Dibenzo(a,h)anthracene	BDL	10	ug/L
EPA 8270C	Di-n-butylphthalate	BDL	10	ug/L
EPA 8270C	1,3-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,4-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,2-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	Diethylphthalate	BDL	10	ug/L
EPA 8270C	Fluoranthene	BDL	10	ug/L
EPA 8270C	Fluorene	BDL	10	ug/L
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	10	ug/L
EPA 8270C	Naphthalene	BDL	10	ug/L
EPA 8270C	Phenanthrene	BDL	10	ug/L
EPA 8270C	Pyrene	BDL	10	ug/L

2/10/00

BDL - Below Detection Limit

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **117309-3**

January 31, 2000

Sample Description
Law Environmental
Water, Hunter AAF, Project #12001-9-3441, DUP-W, 01/19/2000, 15:09, received 01/19/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Metals			
EPA 6010	Total Arsenic (As)	BDL	10	ug/L
EPA 6010	Total Barium (Ba)	BDL J	20	ug/L
EPA 7421	Total Lead (Pb)	BDL	3	ug/L
	Volatile Organics			
EPA 8260B	Acetone	BDL	20	ug/L
EPA 8260B	Benzene	BDL	5	ug/L
EPA 8260B	2-Butanone	BDL	25	ug/L
EPA 8260B	Carbon tetrachloride	BDL	5	ug/L
EPA 8260B	Chlorobenzene	BDL	5	ug/L
EPA 8260B	Chloroethane	BDL	10	ug/L
EPA 8260B	Chloroform	BDL	5	ug/L
EPA 8260B	Chloromethane	BDL	3	ug/L
EPA 8260B	1,1-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,2-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,1-Dichloroethene	BDL	5	ug/L
EPA 8260B	cis-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	trans-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	Ethylbenzene	BDL	5	ug/L
EPA 8260B	Methylene chloride	BDL	5	ug/L
EPA 8260B	Tetrachloroethene	BDL	5	ug/L
EPA 8260B	Toluene	BDL	5	ug/L
EPA 8260B	1,1,1-Trichloroethane	BDL	5	ug/L
EPA 8260B	1,1,2-Trichloroethane	BDL	5	ug/L
EPA 8260B	Trichloroethene	BDL	5	ug/L
EPA 8260B	Trichlorofluoromethane	BDL	5	ug/L

qaw
2/10/00

BDL - Below Detection Limit

Sample Description

Law Environmental

Water, Hunter AAF, Project #12001-9-3441, DUP-W, 01/19/2000, 15:09, received 01/19/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8260B	Vinyl chloride	BDL	2	ug/L
EPA 8260B	Xylenes (total)	BDL	5	ug/L
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	10	ug/L
EPA 8270C	Acenaphthylene	BDL	10	ug/L
EPA 8270C	Anthracene	BDL	10	ug/L
EPA 8270C	Benzo(a)anthracene	BDL	10	ug/L
EPA 8270C	Benzo(b)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(k)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(ghi)perylene	BDL	10	ug/L
EPA 8270C	Benzo(a)pyrene	BDL	10	ug/L
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	10	ug/L
EPA 8270C	4-Bromophenyl phenyl ether	BDL	10	ug/L
EPA 8270C	Chrysene	BDL	10	ug/L
EPA 8270C	Dibenzo(a,h)anthracene	BDL	10	ug/L
EPA 8270C	Di-n-butylphthalate	BDL	10	ug/L
EPA 8270C	1,3-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,4-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,2-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	Diethylphthalate	BDL	10	ug/L
EPA 8270C	Fluoranthene	BDL	10	ug/L
EPA 8270C	Fluorene	BDL	10	ug/L
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	10	ug/L
EPA 8270C	Naphthalene	BDL	10	ug/L
EPA 8270C	Phenanthrene	BDL	10	ug/L
EPA 8270C	Pyrene	BDL	10	ug/L

BDL - Below Detection Limit

ASI ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201

V8 B504

CHAIN OF CUSTODY RECORD

CLIENT NAME: Law Gibb

CLIENT ADDRESS AND PHONE NUMBER: 112 Town Park Dr. Kennesaw GA 30144 (770) 421-3400

PROJECT MANAGER: Mr David Gwershel

COPY TO (if applicable): Judy Hartness

REQUESTED COMPLETION DATE: 14 Day Standard TAT

SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ☐

PROJECT NAME: Hunter AAF

PROJECT NUMBER: 12001-9-3411

PURCHASE ORDER NO.

FOR LAB USE ONLY

LAB #: 117309

PROJECT NO.

ACK | VERIFIED

QUOTE # | BS

NO. OF SAMP: 3 | PG 2 | OF 2

SAMPLE ID	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS	# OF CONTAINERS	5030B/8260B (VOC)	8330C/8270C SVOC (PAH)	METALS As, Ba, Pb	LAB ID	REMARKS/ADDITIONAL INFORMATION
1	1/18/00	15:07		X		HMW-20	3	3			-1	
2	↓	15:07		↓		11	2		2			
3	↓	15:07		↓		11	1			1		

SAMPLED BY AND TITLE: Victor Clarke Site Manager

DATE/TIME: 1-19-00 17:30

RELINQUISHED BY

DATE/TIME: 1/19/00 17:30

RECEIVED BY

DATE/TIME

RELINQUISHED BY

DATE/TIME

RECEIVED BY

DATE/TIME

RELINQUISHED BY

DATE/TIME

RECEIVED BY LAB: Wnkyn

DATE/TIME: 1/20/00 9:00

SAMPLE SHIPPED VIA: UPS BUS FED-EX HAND OTH

1-19-00

FedEx Tracking Number 813984610923

REMARKS

Victor Clarke

Phone 912 -3888

HAZWRAP/MEESA Y N

QC LEVEL 1 2 3

COC ✓ ICE

ANA REQ TEMP 2°C (9:00)

CUST SEAL ✓ PH 6 (Met)

SAMPLE COND Good

F-88

ASI ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201

V 8 B S

CHAIN OF CUSTODY RECORD

CLIENT NAME: Land Gibb

CLIENT ADDRESS AND PHONE NUMBER: 112 Town Park Dr Kennesaw GA 30144 (770) 421-3400

PROJECT MANAGER: Mr. David Goethe

COPY TO (if applicable): Judy Haines

REQUESTED COMPLETION DATE: 14 Day Standard TAT

SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ☐

PROJECT NAME: Hunter AAF

PROJECT NUMBER: 12001-9-3411

PURCHASE ORDER NO.:

FOR LAB USE ONLY

LAB #: 117309

PROJECT NO.:

ACK: VERIFIED:

QUOTE #: BS

NO. OF SAMP: 3 PG: 2 OF: 2

SAMPLE ID	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS	# OF CONTAINERS	SOIL 8260B VOCs	SOIL 8270C SVOCs	SOIL METALS 6010B	LAB ID
1	1/14/00	15:09		X		HMW-17	6	3	2	1	-2
	1/14/00	15:09				DUP-W					

REMARKS/ADDITIONAL INFORMATION: per Received

SAMPLED BY AND TITLE: Victor Clarke

DATE/TIME: 1/19/00 17:30

RECEIVED BY:

DATE/TIME:

RECEIVED BY:

DATE/TIME:

RECEIVED BY LAB: JJJ

DATE/TIME: 1/20/00 9:00

REMARKS: Wet Ice

RELINQUISHED BY:

RELINQUISHED BY:

RELINQUISHED BY:

DATE/TIME: 1/19/00 17:30

DATE/TIME:

SAMPLE SHIPPED VIA: UPS BUS FED-EX HAND OTHER

AIR BILL #: 813 784 610 923

HAZWRAP/NEESA Y N

QC LEVEL 1 2

COC ✓

ANA REQ

CUST SEAL (Y)

SAMPLE COND: good

ICE

TEMP 2° (09:00)

PH 1 (Hot)

ENTERED INTO LIMS: COC REVIEWED:

PAGE 02

ANALYTICAL SERVICES F-89

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ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS

110 TECHNOLOGY PARKWAY • NORCROSS GA 30092
(770) 734-4200 • (770) 734-4201 FAX

January 31, 2000

Case Narrative ASI Sample 117379

Three water samples were collected on January 20, 2000 and arrived at ASI on January 21, 2000. The sample cooler temperature was 1°C upon arrival at ASI. Samples were logged into LIMS as ASI sample 117379 for analysis of VOA, BNA, and metals.

Base/Neutrals and Acids were analyzed in batch 54993 using EPA method 8270. Recoveries for several compounds in the LC were outside of acceptance limits. All recoveries were within control limits with the exception of indeno(1,2,3)pyrene which was slightly high. All sample results for BNA were BDL. Sample 117379-2 was used for the MS/MSD and all other necessary measurement quality objectives were met.

Volatile organics were analyzed in batch 55080 using EPA method 8260. The LCSD was re-analyzed for better recoveries within a 24 hour period. All other necessary measurement quality objectives were met for VOA analysis.

Lead was analyzed in batch 54378 using GFAA EPA method 7421. Arsenic and barium were analyzed in batch 54376 using ICP EPA method 6010. All measurement quality objectives were met for metals.

Callie Brinkley
Quality Assurance

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **117379-1**

January 31, 2000

Sample Description

Law Environmental
Water, grab, Hunter AAF, Project #12001-9-3411, HMW-19-W, 01/20/2000, 14:20, received 01/21/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Metals			
EPA 6010	Total Arsenic (As)	BDL	10	ug/L
EPA 6010	Total Barium (Ba)	56 J	20	ug/L
EPA 7421	Total Lead (Pb)	BDL	3	ug/L
	Volatile Organics			
EPA 8260B	Acetone	BDL	20	ug/L
EPA 8260B	Benzene	BDL	5	ug/L
EPA 8260B	2-Butanone	BDL	25	ug/L
EPA 8260B	Carbon tetrachloride	BDL	5	ug/L
EPA 8260B	Chlorobenzene	BDL	5	ug/L
EPA 8260B	Chloroethane	BDL	10	ug/L
EPA 8260B	Chloroform	BDL	5	ug/L
EPA 8260B	Chloromethane	BDL	3	ug/L
EPA 8260B	1,1-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,2-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,1-Dichloroethene	BDL	5	ug/L
EPA 8260B	cis-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	trans-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	Ethylbenzene	BDL	5	ug/L
EPA 8260B	Methylene chloride	BDL	5	ug/L
EPA 8260B	Tetrachloroethene	BDL	5	ug/L
EPA 8260B	Toluene	BDL	5	ug/L
EPA 8260B	1,1,1-Trichloroethane	BDL	5	ug/L
EPA 8260B	1,1,2-Trichloroethane	BDL	5	ug/L
EPA 8260B	Trichloroethene	BDL	5	ug/L
EPA 8260B	Trichlorofluoromethane	BDL	5	ug/L

qaw
2/10/00

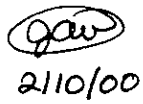
BDL - Below Detection Limit

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, HMW-19-W, 01/20/2000, 14:20, received 01/21/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8260B	Vinyl chloride	BDL	2	ug/L
EPA 8260B	Xylenes (total)	BDL	5	ug/L
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	10	ug/L
EPA 8270C	Acenaphthylene	BDL	10	ug/L
EPA 8270C	Anthracene	BDL	10	ug/L
EPA 8270C	Benzo(a)anthracene	BDL	10	ug/L
EPA 8270C	Benzo(b)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(k)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(ghi)perylene	BDL	10	ug/L
EPA 8270C	Benzo(a)pyrene	BDL	10	ug/L
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	10	ug/L
EPA 8270C	4-Bromophenyl phenyl ether	BDL	10	ug/L
EPA 8270C	Chrysene	BDL	10	ug/L
EPA 8270C	Dibenzo(a,h)anthracene	BDL	10	ug/L
EPA 8270C	Di-n-butylphthalate	BDL	10	ug/L
EPA 8270C	1,3-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,4-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,2-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	Diethylphthalate	BDL	10	ug/L
EPA 8270C	Fluoranthene	BDL	10	ug/L
EPA 8270C	Fluorene	BDL	10	ug/L
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	10	ug/L
EPA 8270C	Naphthalene	BDL	10	ug/L
EPA 8270C	Phenanthrene	BDL	10	ug/L
EPA 8270C	Pyrene	BDL	10	ug/L



BDL - Below Detection Limit

ASI

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110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **117379-2**

January 31, 2000

Sample Description

Law Environmental
Water, grab, Hunter AAF, Project #12001-9-3411, HMW-18-W, 01/20/2000, 19:36, received 01/21/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Metals			
EPA 6010	Total Arsenic (As)	BDL	10	ug/L
EPA 6010	Total Barium (Ba)	37 J	20	ug/L
EPA 7421	Total Lead (Pb)	BDL	3	ug/L
	Volatile Organics			
EPA 8260B	Acetone	BDL	20	ug/L
EPA 8260B	Benzene	BDL	5	ug/L
EPA 8260B	2-Butanone	BDL	25	ug/L
EPA 8260B	Carbon tetrachloride	BDL	5	ug/L
EPA 8260B	Chlorobenzene	BDL	5	ug/L
EPA 8260B	Chloroethane	BDL	10	ug/L
EPA 8260B	Chloroform	BDL	5	ug/L
EPA 8260B	Chloromethane	BDL	3	ug/L
EPA 8260B	1,1-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,2-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,1-Dichloroethene	BDL	5	ug/L
EPA 8260B	cis-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	trans-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	Ethylbenzene	BDL	5	ug/L
EPA 8260B	Methylene chloride	BDL	5	ug/L
EPA 8260B	Tetrachloroethene	BDL	5	ug/L
EPA 8260B	Toluene	BDL	5	ug/L
EPA 8260B	1,1,1-Trichloroethane	BDL	5	ug/L
EPA 8260B	1,1,2-Trichloroethane	BDL	5	ug/L
EPA 8260B	Trichloroethene	BDL	5	ug/L
EPA 8260B	Trichlorofluoromethane	BDL	5	ug/L

gaw
2/10/00

BDL - Below Detection Limit

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, HMW-18-W, 01/20/2000, 19:36, received 01/21/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8260B	Vinyl chloride	BDL	2	ug/L
EPA 8260B	Xylenes (total)	BDL	5	ug/L
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	10	ug/L
EPA 8270C	Acenaphthylene	BDL	10	ug/L
EPA 8270C	Anthracene	BDL	10	ug/L
EPA 8270C	Benzo(a)anthracene	BDL	10	ug/L
EPA 8270C	Benzo(b)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(k)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(ghi)perylene	BDL	10	ug/L
EPA 8270C	Benzo(a)pyrene	BDL	10	ug/L
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	10	ug/L
EPA 8270C	4-Bromophenyl phenyl ether	BDL	10	ug/L
EPA 8270C	Chrysene	BDL	10	ug/L
EPA 8270C	Dibenzo(a,h)anthracene	BDL	10	ug/L
EPA 8270C	Di-n-butylphthalate	BDL	10	ug/L
EPA 8270C	1,3-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,4-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,2-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	Diethylphthalate	BDL	10	ug/L
EPA 8270C	Fluoranthene	BDL	10	ug/L
EPA 8270C	Fluorene	BDL	10	ug/L
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	10	ug/L
EPA 8270C	Naphthalene	BDL	10	ug/L
EPA 8270C	Phenanthrene	BDL	10	ug/L
EPA 8270C	Pyrene	BDL	10	ug/L

gaw
2/10/00

BDL - Below Detection Limit

ASI

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Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **117379-3**

January 31, 2000

Sample Description

Law Environmental
Water, grab, Hunter AAF, Project #12001-9-3411, HMW-12-W, 01/19/2000, 14:17, received 01/21/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	Metals			
EPA 6010	Total Arsenic (As)	BDL	10	ug/L
EPA 6010	Total Barium (Ba)	26 J	20	ug/L
EPA 7421	Total Lead (Pb)	BDL	3	ug/L
	Volatile Organics			
EPA 8260B	Acetone	BDL	20	ug/L
EPA 8260B	Benzene	BDL	5	ug/L
EPA 8260B	2-Butanone	BDL	25	ug/L
EPA 8260B	Carbon tetrachloride	BDL	5	ug/L
EPA 8260B	Chlorobenzene	BDL	5	ug/L
EPA 8260B	Chloroethane	BDL	10	ug/L
EPA 8260B	Chloroform	BDL	5	ug/L
EPA 8260B	Chloromethane	BDL	3	ug/L
EPA 8260B	1,1-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,2-Dichloroethane	BDL	5	ug/L
EPA 8260B	1,1-Dichloroethene	BDL	5	ug/L
EPA 8260B	cis-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	trans-1,2-Dichloroethene	BDL	5	ug/L
EPA 8260B	Ethylbenzene	BDL	5	ug/L
EPA 8260B	Methylene chloride	BDL	5	ug/L
EPA 8260B	Tetrachloroethene	BDL	5	ug/L
EPA 8260B	Toluene	BDL	5	ug/L
EPA 8260B	1,1,1-Trichloroethane	BDL	5	ug/L
EPA 8260B	1,1,2-Trichloroethane	BDL	5	ug/L
EPA 8260B	Trichloroethene	BDL	5	ug/L
EPA 8260B	Trichlorofluoromethane	BDL	5	ug/L

2/10/00

BDL - Below Detection Limit

Sample Description

Law Environmental

Water, grab, Hunter AAF, Project #12001-9-3411, HMW-17-W, 01/19/2000, 14:17, received 01/21/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8260B	Vinyl chloride	BDL	2	ug/L
EPA 8260B	Xylenes (total)	BDL	5	ug/L
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	10	ug/L
EPA 8270C	Acenaphthylene	BDL	10	ug/L
EPA 8270C	Anthracene	BDL	10	ug/L
EPA 8270C	Benzo(a)anthracene	BDL	10	ug/L
EPA 8270C	Benzo(b)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(k)fluoranthene	BDL	10	ug/L
EPA 8270C	Benzo(ghi)perylene	BDL	10	ug/L
EPA 8270C	Benzo(a)pyrene	BDL	10	ug/L
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	10	ug/L
EPA 8270C	4-Bromophenyl phenyl ether	BDL	10	ug/L
EPA 8270C	Chrysene	BDL	10	ug/L
EPA 8270C	Dibenzo(a,h)anthracene	BDL	10	ug/L
EPA 8270C	Di-n-butylphthalate	BDL	10	ug/L
EPA 8270C	1,3-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,4-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	1,2-Dichlorobenzene	BDL	10	ug/L
EPA 8270C	Diethylphthalate	BDL	10	ug/L
EPA 8270C	Fluoranthene	BDL	10	ug/L
EPA 8270C	Fluorene	BDL	10	ug/L
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	10	ug/L
EPA 8270C	Naphthalene	BDL	10	ug/L
EPA 8270C	Phenanthrene	BDL	10	ug/L
EPA 8270C	Pyrene	BDL	10	ug/L

gaw 2/10/00

BDL - Below Detection Limit

ASI ANALYTICAL SERVICES, INC.

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110 TECHNOLOGY PARKWAY • NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201

V 7 QS

CHAIN OF CUSTODY RECORD

CLIENT NAME: Law Gibb

CLIENT ADDRESS AND PHONE NUMBER: 112 Town Park Dr. Kennesaw GA 30144 (770) 421-3400

PROJECT MANAGER: MR. David Gosnell

COPY TO (if applicable): Judy Martinez

REQUESTED COMPLETION DATE: 14 Day Standard TAT

SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ☐ ____

PROJECT NAME: Hunter AAF

PROJECT NUMBER: 12001-9-3411

PURCHASE ORDER NO.:

FOR LAB USE ONLY

LAB #: 117379

PROJECT NO.:

ACK: ____ VERIFIED: ____

QUOTE #: ____ BS: ____

NO. OF SAMP: 3 PG: 2 OF: 2

SAMPLE ID	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS	# OF CONTAINERS	8260B VOCs (3 vials)	8270C SVOCs (2 amb)	Metals 6010B, PB (1 amb)	LAB ID	REMARKS/ADDITIONAL INFORMATION
1	1/19/00	14:17		X		HMW-12-GW	6	3	2	1	-3	

SAMPLED BY AND TITLE: Victor Clarke

DATE/TIME: 1/19/00 14:00

RELINQUISHED BY:

DATE/TIME:

HAZWRAP/NEESA Y N

QC LEVEL 1 2 3

COC ✓ ICE

ANA REQ TEMP 1°C (13:40)

CUST SEAL NR PH 1 (MeT)

SAMPLE COND. good

RECEIVED BY:

DATE/TIME:

RELINQUISHED BY:

DATE/TIME:

RECEIVED BY:

DATE/TIME:

RELINQUISHED BY:

DATE/TIME:

RECEIVED BY LAB: Whityard

DATE/TIME: 1/21/00 13:40

SAMPLE SHIPPED VIA: UPS BUS FED-EX (HAND) OTHER ____

AIR BILL #:

REMARKS:

ENTERED INTO LIMS ____ COC REVIEWD ____

F-97

ASI ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201

V705

CHAIN OF CUSTODY RECORD

CLIENT NAME: Law Gibb	PROJECT NAME: Hunter AAF	PROJECT NUMBER: 62001-G-5411	PURCHASE ORDER NO.
CLIENT ADDRESS AND PHONE NUMBER: 112 Town Park Dr. Kennesaw GA 30144 (770) 421-3400			FOR LAB USE ONLY
PROJECT MANAGER: Mr. David Goeshel	COPY TO (if applicable): Judy Hartness		LAB # 117379
REQUESTED COMPLETION DATE: 14 Day Standard TAT	SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ☐		PROJECT NO.
			ACK / VERIFIED
			QUOTE # / BS
			NO. OF SAMP 3 / PG 1 / OF 2

SAMPLE ID	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS	# OF CONTAINERS	8260B/8260C VOCs	8270C/8270D SVOCs	METALS (As, Ba, Pb)	LAB ID
1	1/20/00	14:20		X		HHW-19-W	6	3	2	1	-1
2	1/20/00	19:36		X		HHW-18-W	6	3	2	1	-2

REMARKS/ADDITIONAL INFORMATION

SAMPLED BY AND TITLE: Victor Clarke (SITE MANAGER)	DATE/TIME: 1-20-00	RELINQUISHED BY	DATE/TIME
RECEIVED BY	DATE/TIME	RELINQUISHED BY:	DATE/TIME
RECEIVED BY	DATE/TIME	RELINQUISHED BY:	DATE/TIME
RECEIVED BY LAB: Wm Ryan	DATE/TIME: 1/21/00 1340	SAMPLE SHIPPED VIA: UPS BUS FED-EX (HAND) OTHER	AIR BILL #
REMARKS			ENTERED INTO LIMS / COC REVIEWD

HAZWRAP/NEESA Y N
QC LEVEL 1 2 3
COC ✓ ICE ✓
ANA REQ TEMP 1°C (13:40)
CUST SEAL NO PH 1 (MEC)
SAMPLE COND. good

F-98

ASI ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS GA 30092
(770) 734-4200 • (770) 734-4201 FAX

February 15, 2000

Case Narrative ASI Sample 117719

One water and two soil samples were collected on January 31, 2000 and arrived at ASI on February 1, 2000. The sample cooler temperature was 1°C upon arrival at ASI. Samples were logged into LIMS as ASI sample 117719 for analysis of VOA, BNA, pesticides, oil and grease, phenols, pH, percent moisture, and metals.

Base/Neutrals in water were analyzed in batch 55218 using EPA method 8270. LC recoveries for several compounds were slightly low. All recoveries were within control limits with the exception of benzo(b)fluoranthene. In sample 117719-1, benzo(b)fluoranthene was flagged to indicate that the quantitation is an estimate. Sample 117719-1 was used for the MS/MSD and all other necessary measurement quality objectives were met. Base/Neutrals in soil were analyzed in batch 54764 using EPA method 8270. No dilutions were made and all measurement quality objectives were met.

Volatile organics were analyzed in batch 55197 using EPA method 8260. LC recoveries for methylene chloride and trans-1,2-dichloroethene were slightly high. All recoveries were within control limits. Sample 117719-1 was used for the MS/MSD and all other necessary measurement quality objectives were met.

Pesticides were analyzed in batch 55460 using EPA method 8081. A second LCS was analyzed to include toxaphene. Sample 117719-1 was used for the MS/MSD. Surrogate recoveries were low for sample 117719-1 and the MS/MSD due to matrix interference. These samples were re-analyzed with similar results. All other measurement quality objectives were met.

ICP metals were analyzed in batch 54429 using EPA method 6010. The MS/MSD recoveries were slightly high for arsenic. Lead was analyzed in batch 54430 using GFAA EPA method 7421. Mercury was analyzed in batch 53606 using EPA method 7470. All other measurement quality objectives were met for metals.

pH was analyzed in batch 55201 using EPA method 9040. Sample 117719-1 is reported as estimated since it was received out of hold. All other measurement quality objectives were met.

Phenol was analyzed in batch 55212 using EPA method 9066. All measurement quality objectives were met.

Percent moisture was analyzed on the soil samples in batch 55219 using method ASTM D 2216. All measurement quality objectives were met.

Oil and grease was analyzed in batch 55242 using EPA method 1664. All measurement quality objectives were met.

Callie Brinkley
Quality Assurance

ASI
ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **117719-2**

February 15, 2000

Sample Description
Law Environmental
Soil, grab, Hunter AAF, Project #12001-9-3411, SB41-1, 01/31/2000, 11:46, received 02/01/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	24	0.04	%
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	430	ug/kg
EPA 8270C	Acenaphthylene	BDL	430	ug/kg
EPA 8270C	Anthracene	BDL	430	ug/kg
EPA 8270C	Benzo(a)anthracene	BDL	430	ug/kg
EPA 8270C	Benzo(b)fluoranthene	BDL	430	ug/kg
EPA 8270C	Benzo(k)fluoranthene	BDL	430	ug/kg
EPA 8270C	Benzo(ghi)perylene	BDL	430	ug/kg
EPA 8270C	Benzo(a)pyrene	BDL	430	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	430	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	430	ug/kg
EPA 8270C	Chrysene	BDL	430	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	BDL	430	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	430	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	430	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	430	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	430	ug/kg
EPA 8270C	Diethylphthalate	BDL	430	ug/kg
EPA 8270C	Fluoranthene	BDL	430	ug/kg
EPA 8270C	Fluorene	BDL	430	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	430	ug/kg
EPA 8270C	Naphthalene	BDL	430	ug/kg
EPA 8270C	Phenanthrene	BDL	430	ug/kg
EPA 8270C	Pyrene	BDL	430	ug/kg

3/1/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

ASI ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Law Environmental
112 Town Park Drive
Kennesaw, GA 30144

Attention: Mr. David Goershel
Report No. **117719-3**

February 15, 2000

Sample Description

Law Environmental
Soil, grab, Hunter AAF, Project #12001-9-3411, SB42-1, 01/31/2000, 14:28, received 02/01/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
ASTM D 2216	Moisture	25	0.04	%
	Base/Neutral Extractable Organics			
EPA 8270C	Acenaphthene	BDL	440	ug/kg
EPA 8270C	Acenaphthylene	BDL	440	ug/kg
EPA 8270C	Anthracene	BDL	440	ug/kg
EPA 8270C	Benzo(a)anthracene	BDL	440	ug/kg
EPA 8270C	Benzo(b)fluoranthene	BDL	440	ug/kg
EPA 8270C	Benzo(k)fluoranthene	BDL	440	ug/kg
EPA 8270C	Benzo(ghi)perylene	BDL	440	ug/kg
EPA 8270C	Benzo(a)pyrene	BDL	440	ug/kg
EPA 8270C	4-Bromophenyl phenyl ether	BDL	440	ug/kg
EPA 8270C	Bis(2-ethylhexyl)phthalate	BDL	440	ug/kg
EPA 8270C	Chrysene	BDL	440	ug/kg
EPA 8270C	Dibenzo(a,h)anthracene	BDL	440	ug/kg
EPA 8270C	Di-n-butylphthalate	BDL	440	ug/kg
EPA 8270C	1,3-Dichlorobenzene	BDL	440	ug/kg
EPA 8270C	1,4-Dichlorobenzene	BDL	440	ug/kg
EPA 8270C	1,2-Dichlorobenzene	BDL	440	ug/kg
EPA 8270C	Diethylphthalate	BDL	440	ug/kg
EPA 8270C	Fluoranthene	BDL	440	ug/kg
EPA 8270C	Fluorene	BDL	440	ug/kg
EPA 8270C	Indeno(1,2,3-cd)pyrene	BDL	440	ug/kg
EPA 8270C	Naphthalene	BDL	440	ug/kg
EPA 8270C	Phenanthrene	BDL	440	ug/kg
EPA 8270C	Pyrene	BDL	440	ug/kg

3/1/00

BDL - Below Detection Limit
Note: Results reported on dry-weight basis

ASI ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY • NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201

V2X102

CHAIN OF CUSTODY RECORD

CLIENT NAME: LAW Gibb

CLIENT ADDRESS AND PHONE NUMBER: 112 Town Park Dr Kennesaw GA 30144 (770) 421-3400

PROJECT MANAGER: David Gorski

COPY TO (if applicable): Judy Hartness

REQUESTED COMPLETION DATE: 48HR TAT

SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ☐

PROJECT NAME: HunterAAF

PROJECT NUMBER: 12001-B-3411

PURCHASE ORDER NO.:

FOR LAB USE ONLY

LAB #: 117719

PROJECT NO.:

ACK: | VERIFIED:

QUOTE #: | BS:

NO. OF SAMP: 4 | PG: 2 | OF: 2

SAMPLE ID	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS	# OF CONTAINERS	SVOC SW8270C	LAB ID	REMARKS/ADDITIONAL INFORMATION
1	1/31/00	11:46		X		SB41-1	1	1	-2	
2	1/31/00	11:46		X		SB41-2	1	1		HOLD!
3	1/31/00	14:28		X		SB42-1	1	1	-3	
4	1/31/00	14:28		X		SB42-2	1	1		HOLD
5	1/31/00	11:31				HAAFEB-150	2	2	-4	Hold per SH 2/1/00

* HOLD on SB42-2
" " SB41-2
Pending Analytials on SB41-1 and ~~SB~~ SB42-1

SAMPLED BY AND TITLE: Victor Clarke | DATE/TIME: 1-31-00

RELINQUISHED BY: | DATE/TIME: 2-1-00 11:45

RECEIVED BY: | DATE/TIME:

RELINQUISHED BY: | DATE/TIME:

RECEIVED BY | DATE/TIME:

RELINQUISHED BY: | DATE/TIME:

RECEIVED BY LAB: | DATE/TIME: 2/1/00 11:45

SAMPLE SHIPPED VIA: UPS BUS FED-EX (HAND) OTHER

AIR BILL #:

HAZWRAP/NEESA Y N
QC LEVEL 1 2/ 3
COC ✓ | ICE
ANA REQ | TEMP 1°C (IF 45)
CUST SEAL NO | PH 1 (NOT PHEN)
SAMPLE COND. good

REMARKS:

ENTERED INTO LIMS: | COC REVIEWD:

F-102

SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165 • www.savlabs.com

LOG NO: S9-14816
Received: 21 JUL 99
Reported: 23 JUL 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 110490723

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
14816-1	HMW-16C	07-21-99/14:45
14816-2	HMW-16B	07-21-99/15:00
14816-3	HMW-16A	07-21-99/15:15
14816-4	HMW-17	07-21-99/15:30
14816-5	HMW-14	07-21-99/15:40

PARAMETER	14816-1	14816-2	14816-3	14816-4	14816-5
Halogenated and Aromatic Volatiles (8021)					
Benzene, ug/l	<1.0	22	<1.0	<1.0	<1.0
Ethylbenzene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate - a,a,a-Trifluorotoluene	120 %	100 %	117 %	100 %	100 %
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Analysis Date	07.22.99	07.22.99	07.22.99	07.22.99	07.22.99
Batch ID	1D0722	1D0722	1D0722	1D0722	1D0722

gaw
2/10/00

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165 • www.savlabs.com

LOG NO: S9-14816
Received: 21 JUL 99
Reported: 23 JUL 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 110490723

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
14816-6	HMW-15	07-21-99/15:50
14816-7	Duplicate	07-21-99/00:00

PARAMETER	14816-6	14816-7
Halogenated and Aromatic Volatiles (8021)		
Benzene, ug/l	<1.0	<1.0
Ethylbenzene, ug/l	<1.0	<1.0
Toluene, ug/l	<1.0	<1.0
o-Xylene, ug/l	<1.0	<1.0
m&p-Xylene, ug/l	<1.0	<1.0
Surrogate - a,a,a-Trifluorotoluene	97 %	97 %
Dilution Factor	1.0	1.0
Analysis Date	07.22.99	07.22.99
Batch ID	1D0722	1D0722

qaw
2/10/00

Serial Number 1 [illegible]

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

[ ] 5102 LaRoche Avenue, Savannah, GA 31404 Phone: (912) 354-7858 Fax: (912) 352-0165
[ ] 2846 Industrial Plaza Drive, Tallahassee, FL 32301 Phone: (904) 878-3994 Fax: (904) 878-9504
[ ] 414 SW 12th Avenue, Deerfield Beach, FL 33442 Phone: (954) 421-7400 Fax: (954) 421-2584
[ ] 900 Lakeside Drive, Mobile, AL 36693 Phone: (334) 666-6633 Fax: (334) 666-6696
[ ] 6712 Benjamin Road, Suite 100, Tampa, FL 33634 Phone: (813) 885-7427 Fax: (813) 885-7049
[ ] 100 Alpha Drive, Suite 110, Destrehan, LA 70047 Phone: (504) 764-1100 Fax: (504) 725-1163

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O NUMBER
HAAF FTA	12001-9-3411	

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE / FAX
GA	PATRICK KELLEY, KIM BOOTH	PHONE 770 421 3311 / FAX 770 421 3486

CLIENT NAME	CLIENT PROJECT MANAGER
LAW	12001-9-3411

CLIENT ADDRESS (CITY, STATE, ZIP): 112 TOWNPARK Dr, KENNESAW, GA 30144

MATRIX TYPE: AQUEOUS (WATER) / SOLID OR SEMISOLID / AIR / NONAQUEOUS LIQUID (oil, solvent, etc.)

REQUIRED ANALYSES: 8021 BTEX; HCl

PAGE [ ] OF [ ]

[ ] STANDARD REPORT DELIVERY

[X] EXPEDITED REPORT DELIVERY (surcharge)

Date Due 7/22/99

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (oil, solvent, etc.)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
7/21/99	14:45		HMW-16C	✓				3	FAX RUSH RESULTS TO (770)421-3486 ATTN: LARRY STEWART
7/21/99	15:00		HMW-16B	✓				3	
7/21/99	15:15		HMW-16A	✓				2	
7/21/99	15:30		HMW-17	✓				3	
7/21/99	15:40		HMW-14	✓				2	
7/21/99	15:50		HMW-15	✓				3	
7/21/99	00:00		DUPLICATE	✓				3	

RUSH

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY (SIGNATURE)	DATE	TIME
			Kim Booth	7-21	4:47			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
	7/21/99	4:47	[X] YES [ ] NO		59-14816	Results faxed 7/22/99

F-105

ORIGINAL

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165 • www.savlabs.com

LOG NO: S9-14862
Received: 22 JUL 99
Reported: 04 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 15349084

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-1	SB-18-1	07-22-99/08:00
14862-2	SB-18-2	07-22-99/08:20
14862-3	SB-28-1	07-22-99/08:50
14862-4	SB-28-2	07-22-99/09:00
14862-5	SB-29-1	07-22-99/09:15

PARAMETER	14862-1	14862-2	14862-3	14862-4	14862-5
Volatile Organic Compounds (8260)					
Acetone, ug/kg dw	<56	<58	<67	<61	<64
Acetonitrile, ug/kg dw	<220	<230	<270	<240	<260
Acrolein (Propenal), ug/kg dw	<110	<120	<130	<120	<130
Acrylonitrile, ug/kg dw	<110	<120	<130	<120	<130
Benzene, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
Bromodichloromethane, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
Bromoform, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
Bromomethane (Methyl Bromide), ug/kg dw	<11	<12	<13	<12	<13
2-Butanone (Methyl ethyl ketone), ug/kg dw	<28	<29	<33	<30	<32
Carbon disulfide, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
Carbon Tetrachloride, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
Chlorobenzene, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
Chloroethane, ug/kg dw	<11	<12	<13	<12	<13
Chloroform, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
Chloromethane (Methyl Chloride), ug/kg dw	<11	<12	<13	<12	<13

gaw
2/10/00

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& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165 • www.savlabs.com

LOG NO: S9-14862
Received: 22 JUL 99
Reported: 04 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 15349084

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-1	SB-18-1	07-22-99/08:00
14862-2	SB-18-2	07-22-99/08:20
14862-3	SB-28-1	07-22-99/08:50
14862-4	SB-28-2	07-22-99/09:00
14862-5	SB-29-1	07-22-99/09:15

PARAMETER	14862-1	14862-2	14862-3	14862-4	14862-5
Chloroprene, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
3-Chloropropene (Allylchloride), ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
Dibromochloromethane, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
1,2-Dibromo-3-chloropropane , ug/kg dw	<11	<12	<13	<12	<13
1,2-Dibromoethane (EDB) , ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
Dibromomethane (Methylene bromide), ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
trans-1,4-Dichloro-2-butene , ug/kg dw	<11	<12	<13	<12	<13
Dichlorodifluoromethane, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
1,1-Dichloroethane, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
1,2-Dichloroethane, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
1,1-Dichloroethene, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
trans-1,2-Dichloroethene, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
1,2-Dichloropropane, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
cis-1,3-Dichloropropene, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
trans-1,3-Dichloropropene, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4

qaw
2/10/00

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165 • www.savlabs.com

LOG NO: S9-14862
Received: 22 JUL 99
Reported: 04 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 15349084

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-1	SB-18-1	07-22-99/08:00
14862-2	SB-18-2	07-22-99/08:20
14862-3	SB-28-1	07-22-99/08:50
14862-4	SB-28-2	07-22-99/09:00
14862-5	SB-29-1	07-22-99/09:15

PARAMETER	14862-1	14862-2	14862-3	14862-4	14862-5
Ethylbenzene, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
Ethyl methacrylate, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
2-Hexanone, ug/kg dw	<28	<29	<33	<30	<32
Iodomethane (Methyl iodide), ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
Isobutanol (Isobutyl alcohol), ug/kg dw	<220	<230	<270	<240	<260
Methacrylonitrile, ug/kg dw	<110	<120	<130	<120	<130
Methylene chloride (Dichloromethane), ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
Methyl methacrylate, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
4-Methyl-2-pentanone (MIBK), ug/kg dw	<28	<29	<33	<30	<32
Pentachloroethane, ug/kg dw	<28	<29	<33	<30	<32
Propionitrile, ug/kg dw	<110	<120	<130	<120	<130
Styrene, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
1,1,1,2-Tetrachloroethane, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4

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LOG NO: S9-14862
Received: 22 JUL 99
Reported: 04 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 15349084

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-1	SB-18-1	07-22-99/08:00
14862-2	SB-18-2	07-22-99/08:20
14862-3	SB-28-1	07-22-99/08:50
14862-4	SB-28-2	07-22-99/09:00
14862-5	SB-29-1	07-22-99/09:15

PARAMETER	14862-1	14862-2	14862-3	14862-4	14862-5
Tetrachloroethene, ug/kg dw	6.1	<5.8	<6.7	<6.1	<6.4
Toluene, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
1,1,1-Trichloroethane, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
1,1,2-Trichloroethane, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
Trichloroethene, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
Trichlorofluoromethane, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
1,2,3-Trichloropropane, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
Vinyl acetate, ug/kg dw	<11	<12	<13	<12	<13
Vinyl chloride, ug/kg dw	<11	<12	<13	<12	<13
Xylenes (total), ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
cis-1,2-Dichloroethene, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
2-Chlorotoluene, ug/kg dw	<5.6	<5.8	<6.7	<6.1	<6.4
2-Chloroethylvinyl Ether, ug/kg dw	<56	<58	<67	<61	<64
Surrogate - Toluene-d8	107 %	102 %	106 %	108 %	103 %
Surrogate - 4-Bromofluorobenzene	95 %	88 %	91 %	85 %	102 %
Surrogate - Dibromofluoromethane	105 %	100 %	94 %	92 %	97 %
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Analysis Date	07.27.99	07.27.99	07.23.99	07.23.99	07.23.99
Batch ID	1H0727	1H0727	2H0723	2H0723	2H0723

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14862-2	SB-18-2	07-22-99/08:20
14862-3	SB-28-1	07-22-99/08:50
14862-4	SB-28-2	07-22-99/09:00
14862-5	SB-29-1	07-22-99/09:15

PARAMETER	14862-1	14862-2	14862-3	14862-4	14862-5
Acids and Base Neutrals (8270-APP9)					
Acenaphthene, ug/kg dw	<340	<360	<370	<380	<360
Acenaphthylene, ug/kg dw	<340	<360	<370	<380	<360
Acetophenone, ug/kg dw	<340	<360	<370	<380	<360
2-Acetylaminofluorene, ug/kg dw	<340	<360	<370	<380	<360
4-Aminobiphenyl, ug/kg dw	<340	<360	<370	<380	<360
Aniline, ug/kg dw	<340	<360	<370	<380	<360
Anthracene, ug/kg dw	<340	<360	<370	<380	<360
Aramite (total), ug/kg dw	<340	<360	<370	<380	<360
Benzo(a)anthracene, ug/kg dw	<340	<360	<370	<380	<360
Benzo(b)fluoranthene, ug/kg dw	<340	<360	<370	<380	<360
Benzo(k)fluoranthene, ug/kg dw	<340	<360	<370	<380	<360
Benzo(g,h,i)perylene, ug/kg dw	<340	<360	<370	<380	<360
Benzo(a)pyrene, ug/kg dw	<340	<360	<370	<380	<360
Benzyl alcohol, ug/kg dw	<340	<360	<370	<380	<360
bis(2-Chloroethoxy)methane, ug/kg dw	<340	<360	<370	<380	<360
bis(2-Chloroethyl)ether, ug/kg dw	<340	<360	<370	<380	<360
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	<340	<360	<370	<380	<360

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14862-5	SB-29-1	07-22-99/09:15

PARAMETER	14862-1	14862-2	14862-3	14862-4	14862-5
bis(2-Ethylhexyl)phthalate, ug/kg dw	<340	<360	<370	<380	<360
4-Bromophenylphenyl ether, ug/kg dw	6.9J	<360	<370	<380	<360
Butylbenzylphthalate, ug/kg dw	<340	<360	<370	<380	<360
4-Chloroaniline (p-Chloroaniline), ug/kg dw	<690	<730	<740	<760	<730
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	<340	<360	<370	<380	<360
2-Chloronaphthalene, ug/kg dw	<340	<360	<370	<380	<360
2-Chlorophenol, ug/kg dw	<340	<360	<370	<380	<360
4-Chlorophenylphenyl ether, ug/kg dw	<340	<360	<370	<380	<360
Chrysene, ug/kg dw	<340	<360	<370	<380	<360
Cresol, m & p, ug/kg dw	<340	<360	<370	<380	<360
Cresol (ortho), ug/kg dw	<340	<360	<370	<380	<360
Diallate (total), ug/kg dw	<340	<360	<370	<380	<360
Dibenzo(a,h)anthracene, ug/kg dw	<340	<360	<370	<380	<360

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14862-5	SB-29-1	07-22-99/09:15

PARAMETER	14862-1	14862-2	14862-3	14862-4	14862-5
Dibenzofuran, ug/kg dw	<340	<360	<370	<380	<360
Di-n-butylphthalate, ug/kg dw	<340	<360	<370	<380	<360
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	<340	<360	<370	<380	<360
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	<340	<360	<370	<380	<360
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	<340	<360	<370	<380	<360
3,3'-Dichlorobenzidine, ug/kg dw	<690	<730	<740	<760	<730
2,4-Dichlorophenol, ug/kg dw	<340	<360	<370	<380	<360
2,6-Dichlorophenol, ug/kg dw	<340	<360	<370	<380	<360
Diethylphthalate, ug/kg dw	<340	<360	<370	<380	<360
p-(Dimethylamino)azobenzene , ug/kg dw	<340	<360	<370	<380	<360
7,12-Dimethylbenz(a)anthrac ene, ug/kg dw	<340	<360	<370	<380	<360

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14862-4	SB-28-2	07-22-99/09:00
14862-5	SB-29-1	07-22-99/09:15

PARAMETER	14862-1	14862-2	14862-3	14862-4	14862-5
3,3'-Dimethylbenzidine, ug/kg dw	<1800	<1900	<1900	<1900	<1900
alpha,alpha-Dimethylpheneth ylamine, ug/kg dw	<70000	<74000	<75000	<77000	<74000
2,4-Dimethylphenol, ug/kg dw	<340	<360	<370	<380	<360
Dimethylphthalate, ug/kg dw	<340	<360	<370	<380	<360
m-Dinitrobenzene , ug/kg dw	<340	<360	<370	<380	<360
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	<1800	<1900	<1900	<1900	<1900
2,4-Dinitrophenol, ug/kg dw	<1800	<1900	<1900	<1900	<1900
2,4-Dinitrotoluene, ug/kg dw	<340	<360	<370	<380	<360
2,6-Dinitrotoluene, ug/kg dw	<340	<360	<370	<380	<360
Dinoseb (2-sec-Butyl-4,6-dinitrophen ol), ug/kg dw	<340	<360	<370	<380	<360
Di-n-octylphthalate, ug/kg dw	<340	<360	<370	<380	<360
1,4-Dioxane, ug/kg dw	<340	<360	<370	<380	<360
Ethyl methanesulfonate, ug/kg dw	<340	<360	<370	<380	<360
Fluoranthene, ug/kg dw	<340	<360	<370	<380	<360

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PARAMETER	14862-1	14862-2	14862-3	14862-4	14862-5
Fluorene, ug/kg dw	<340	<360	<370	<380	<360
Hexachlorobenzene, ug/kg dw	<340	<360	<370	<380	<360
Hexachlorobutadiene, ug/kg dw	<340	<360	<370	<380	<360
Hexachlorocyclopentadiene, ug/kg dw	<340	<360	<370	<380	<360
Hexachloroethane, ug/kg dw	<340	<360	<370	<380	<360
Hexachlorophene, ug/kg dw	<180000	<190000	<190000	<190000	<190000
Hexachloropropene, ug/kg dw	<340	<360	<370	<380	<360
Indeno(1,2,3-cd)pyrene, ug/kg dw	<340	<360	<370	<380	<360
Isophorone, ug/kg dw	<340	<360	<370	<380	<360
Isosafrole, ug/kg dw	<340	<360	<370	<380	<360
Methapyrilene, ug/kg dw	<70000	<74000	<75000	<77000	<74000
3-Methylcholanthrene, ug/kg dw	<340	<360	<370	<380	<360
Methyl methanesulfonate, ug/kg dw	<340	<360	<370	<380	<360
2-Methylnaphthalene, ug/kg dw	<340	<360	<370	<380	<360
Naphthalene, ug/kg dw	<340	<360	<370	<380	<360
1,4-Naphthoquinone, ug/kg dw	<340	<360	<370	<380	<360
1-Naphthylamine, ug/kg dw	<340	<360	<370	<380	<360
2-Naphthylamine, ug/kg dw	<340	<360	<370	<380	<360

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14862-4	SB-28-2	07-22-99/09:00
14862-5	SB-29-1	07-22-99/09:15

PARAMETER	14862-1	14862-2	14862-3	14862-4	14862-5
2-Nitroaniline (o-Nitroaniline), ug/kg dw	<1800	<1900	<1900	<1900	<1900
3-Nitroaniline (m-Nitroaniline), ug/kg dw	<1800	<1900	<1900	<1900	<1900
4-Nitroaniline (p-Nitroaniline), ug/kg dw	<1800	<1900	<1900	<1900	<1900
Nitrobenzene, ug/kg dw	<340	<360	<370	<380	<360
2-Nitrophenol (o-Nitrophenol), ug/kg dw	<340	<360	<370	<380	<360
4-Nitrophenol (p-Nitrophenol), ug/kg dw	<1800	<1900	<1900	<1900	<1900
4-Nitroquinoline 1-oxide, ug/kg dw	<3400	<3600	<3700	<3800	<3600
N-Nitrosodi-n-butylamine, ug/kg dw	<340	<360	<370	<380	<360
N-Nitrosodiethylamine, ug/kg dw	<340	<360	<370	<380	<360
N-Nitrosodimethylamine, ug/kg dw	<340	<360	<370	<380	<360
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	<340	<360	<370	<380	<360
n-Nitrosodi-n-propylamine, ug/kg dw	<340	<360	<370	<380	<360

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14862-4	SB-28-2	07-22-99/09:00
14862-5	SB-29-1	07-22-99/09:15

PARAMETER	14862-1	14862-2	14862-3	14862-4	14862-5
N-Nitrosomethylethylamine, ug/kg dw	<340	<360	<370	<380	<360
N-Nitrosomorpholine, ug/kg dw	<340	<360	<370	<380	<360
N-Nitrosopiperidine, ug/kg dw	<340	<360	<370	<380	<360
N-Nitrosopyrrolidine, ug/kg dw	<340	<360	<370	<380	<360
5-Nitro-o-toluidine, ug/kg dw	<340	<360	<370	<380	<360
Pentachlorobenzene, ug/kg dw	<340	<360	<370	<380	<360
Pentachloronitrobenzene, ug/kg dw	<340	<360	<370	<380	<360
Pentachlorophenol, ug/kg dw	<1800	<1900	<1900	<1900	<1900
Phenacetin, ug/kg dw	<340	<360	<370	<380	<360
Phenanthrene, ug/kg dw	<340	<360	<370	<380	<360
Phenol, ug/kg dw	<340	<360	<370	<380	<360
1,4-Phenylenediamene (p-Phenylenediamene), ug/kg dw	<1800	<1900	<1900	<1900	<1900
2-Picoline, ug/kg dw	<340	<360	<370	<380	<360
Pronamide, ug/kg dw	<340	<360	<370	<380	<360
Pyrene, ug/kg dw	<340	<360	<370	<380	<360
Pyridine, ug/kg dw	<340	<360	<370	<380	<360

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PARAMETER	14862-1	14862-2	14862-3	14862-4	14862-5
Safrole, ug/kg dw	<340	<360	<370	<380	<360
1,2,4,5-Tetrachlorobenzene, ug/kg dw	<340	<360	<370	<380	<360
2,3,4,6-Tetrachlorophenol, ug/kg dw	<340	<360	<370	<380	<360
o-Toluidine, ug/kg dw	<340	<360	<370	<380	<360
1,2,4-Trichlorobenzene, ug/kg dw	<340	<360	<370	<380	<360
2,4,5-Trichlorophenol, ug/kg dw	<340	<360	<370	<380	<360
2,4,6-Trichlorophenol, ug/kg dw	<340	<360	<370	<380	<360
O,O,O-Triethyl phosphorothioate, ug/kg dw	<340	<360	<370	<380	<360
1,3,5-Trinitrobenzene, ug/kg dw	<340	<360	<370	<380	<360
Benzidine, ug/kg dw	<2800	<3000	<3000	<3100	<3000
Benzoic acid, ug/kg dw	<1800	<1900	<1900	<1900	<1900
Dimethoate, ug/kg dw	<340	<360	<370	<380	<360
p-Benzoquinone, ug/kg dw	<340	<360	<370	<380	<360
Surrogate - Phenol d5	46 %	46 %	38 %	42 %	46 %
Surrogate - 2-Fluorophenol	51 %	51 %	40 %	50 %	54 %
Surrogate - 2,4,6-Tribromophenol	57 %	59 %	51 %	58 %	65 %

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PARAMETER	14862-1	14862-2	14862-3	14862-4	14862-5
Surrogate - Nitrobenzene - d5	45 %	44 %	30 %	34 %	43 %
Surrogate - 2-Fluorobiphenyl	52 %	47 %	41 %	44 %	56 %
Surrogate - Terphenyl - d14	47 %	47 %	43 %	45 %	52 %
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Prep Date	07.26.99	07.26.99	07.26.99	07.26.99	07.26.99
Analysis Date	07.28.99	07.28.99	07.28.99	07.28.99	07.28.99
Batch ID	0726E	0726E	0726E	0726E	0726E
Percent Solids	95	90	89	87	90

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LOG NO: S9-14862
Received: 22 JUL 99
Reported: 04 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 15349084

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-6	SB-29-2	07-22-99/09:25
14862-7	SB-19-1	07-22-99/09:30
14862-8	SB-19-2	07-22-99/09:40
14862-9	SB-20-1	07-22-99/09:50
14862-10	SB-20-2	07-22-99/09:55

PARAMETER	14862-6	14862-7	14862-8	14862-9	14862-10
Volatile Organic Compounds (8260)					
Acetone, ug/kg dw	<62	<64	<64	<62	<62
Acetonitrile, ug/kg dw	<250	<260	<260	<250	<250
Acrolein (Propenal), ug/kg dw	<120	<130	<130	<120	<120
Acrylonitrile, ug/kg dw	<120	<130	<130	<120	<120
Benzene, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Bromodichloromethane, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Bromoform, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Bromomethane (Methyl Bromide), ug/kg dw	<12	<13	<13	<12	<12
2-Butanone (Methyl ethyl ketone), ug/kg dw	<31	<32	<32	<31	<31
Carbon disulfide, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Carbon Tetrachloride, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Chlorobenzene, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Chloroethane, ug/kg dw	<12	<13	<13	<12	<12
Chloroform, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Chloromethane (Methyl Chloride), ug/kg dw	<12	<13	<13	<12	<12

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14862-9	SB-20-1	07-22-99/09:50
14862-10	SB-20-2	07-22-99/09:55

PARAMETER	14862-6	14862-7	14862-8	14862-9	14862-10
Chloroprene, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
3-Chloropropene (Allylchloride), ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Dibromochloromethane, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
1,2-Dibromo-3-chloropropane , ug/kg dw	<12	<13	<13	<12	<12
1,2-Dibromoethane (EDB) , ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Dibromomethane (Methylene bromide), ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
trans-1,4-Dichloro-2-butene , ug/kg dw	<12	<13	<13	<12	<12
Dichlorodifluoromethane, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
1,1-Dichloroethane, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
1,2-Dichloroethane, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
1,1-Dichloroethene, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
trans-1,2-Dichloroethene, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
1,2-Dichloropropane, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
cis-1,3-Dichloropropene, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
trans-1,3-Dichloropropene, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2

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112 Town Park Drive
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Contract No.: 12001-9-3411
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Sampled By: Client
Code: 15349084

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-6	SB-29-2	07-22-99/09:25
14862-7	SB-19-1	07-22-99/09:30
14862-8	SB-19-2	07-22-99/09:40
14862-9	SB-20-1	07-22-99/09:50
14862-10	SB-20-2	07-22-99/09:55

PARAMETER	14862-6	14862-7	14862-8	14862-9	14862-10
Ethylbenzene, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Ethyl methacrylate, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
2-Hexanone, ug/kg dw	<31	<32	<32	<31	<31
Iodomethane (Methyl iodide), ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Isobutanol (Isobutyl alcohol), ug/kg dw	<250	<260	<260	<250	<250
Methacrylonitrile, ug/kg dw	<120	<130	<130	<120	<120
Methylene chloride (Dichloromethane), ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Methyl methacrylate, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
4-Methyl-2-pentanone (MIBK), ug/kg dw	<31	<32	<32	<31	<31
Pentachloroethane, ug/kg dw	<31	<32	<32	<31	<31
Propionitrile, ug/kg dw	<120	<130	<130	<120	<120
Styrene, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
1,1,1,2-Tetrachloroethane, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
1,1,2,2-Tetrachloroethane, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2

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LOG NO: S[illegible]4862
Received: 2[illegible] 99
Reported: 04 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 15349084

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-6	SB-29-2	07-22-99/09:25
14862-7	SB-19-1	07-22-99/09:30
14862-8	SB-19-2	07-22-99/09:40
14862-9	SB-20-1	07-22-99/09:50
14862-10	SB-20-2	07-22-99/09:55

PARAMETER	14862-6	14862-7	14862-8	14862-9	14862-10
Tetrachloroethene, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Toluene, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
1,1,1-Trichloroethane, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
1,1,2-Trichloroethane, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Trichloroethene, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Trichlorofluoromethane, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
1,2,3-Trichloropropane, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
Vinyl acetate, ug/kg dw	<12	<13	<13	<12	<12
Vinyl chloride, ug/kg dw	<12	<13	<13	<12	<12
Xylenes (total), ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
cis-1,2-Dichloroethene, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
2-Chlorotoluene, ug/kg dw	<6.2	<6.4	<6.4	<6.2	<6.2
2-Chloroethylvinyl Ether, ug/kg dw	<62	<64	<64	<62	<62
Surrogate - Toluene-d8	113 %	106 %	112 %	97 %	100 %
Surrogate - 4-Bromofluorobenzene	90 %	94 %	91 %	106 %	89 %
Surrogate - Dibromofluoromethane	92 %	95 %	94 %	103 %	102 %
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Analysis Date	07.24.99	07.24.99	07.24.99	07.27.99	07.27.99
Batch ID	2H0723	2H0723	2H0723	1H0727	1H0727

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LOG NO: S9-14862
Received: 22 JUL 99
Reported: 04 AUG 99

Dr. Larry Stewart
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112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
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REPORT OF RESULTS

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14862-8	SB-19-2	07-22-99/09:40
14862-9	SB-20-1	07-22-99/09:50
14862-10	SB-20-2	07-22-99/09:55

PARAMETER	14862-6	14862-7	14862-8	14862-9	14862-10
Acids and Base Neutrals (8270-APP9)					
Acenaphthene, ug/kg dw	<370	<370	<370	<360	<350
Acenaphthylene, ug/kg dw	<370	<370	<370	<360	<350
Acetophenone, ug/kg dw	<370	<370	<370	<360	<350
2-Acetylaminofluorene, ug/kg dw	<370	<370	<370	<360	<350
4-Aminobiphenyl, ug/kg dw	<370	<370	<370	<360	<350
Aniline, ug/kg dw	<370	<370	<370	<360	<350
Anthracene, ug/kg dw	<370	<370	<370	<360	<350
Aramite (total), ug/kg dw	<370	<370	<370	<360	<350
Benzo(a)anthracene, ug/kg dw	<370	<370	<370	<360	<350
Benzo(b)fluoranthene, ug/kg dw	<370	<370	<370	<360	<350
Benzo(k)fluoranthene, ug/kg dw	<370	<370	<370	<360	<350
Benzo(g,h,i)perylene, ug/kg dw	<370	<370	<370	<360	<350
Benzo(a)pyrene, ug/kg dw	<370	<370	<370	<360	<350
Benzyl alcohol, ug/kg dw	<370	<370	<370	<360	<350
bis(2-Chloroethoxy)methane, ug/kg dw	<370	<370	<370	<360	<350
bis(2-Chloroethyl)ether, ug/kg dw	<370	<370	<370	<360	<350
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	<370	<370	<370	<360	<350

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14862-9	SB-20-1	07-22-99/09:50
14862-10	SB-20-2	07-22-99/09:55

PARAMETER	14862-6	14862-7	14862-8	14862-9	14862-10
bis(2-Ethylhexyl)phthalate, ug/kg dw	<370	<370	<370	<360	<350
4-Bromophenylphenyl ether, ug/kg dw	<370	<370	<370	<360	<350
Butylbenzylphthalate, ug/kg dw	<370	<370	<370	<360	<350
4-Chloroaniline (p-Chloroaniline), ug/kg dw	<740	<730	<740	<710	<700
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	<370	<370	<370	<360	<350
2-Chloronaphthalene, ug/kg dw	<370	<370	<370	<360	<350
2-Chlorophenol, ug/kg dw	<370	<370	<370	<360	<350
4-Chlorophenylphenyl ether, ug/kg dw	<370	<370	<370	<360	<350
Chrysene, ug/kg dw	<370	<370	<370	<360	<350
Cresol, m & p, ug/kg dw	<370	<370	<370	<360	<350
Cresol (ortho), ug/kg dw	<370	<370	<370	<360	<350
Diallate (total), ug/kg dw	<370	<370	<370	<360	<350
Dibenzo(a,h)anthracene, ug/kg dw	<370	<370	<370	<360	<350

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14862-9	SB-20-1	07-22-99/09:50
14862-10	SB-20-2	07-22-99/09:55

PARAMETER	14862-6	14862-7	14862-8	14862-9	14862-10
Dibenzofuran, ug/kg dw	<370	<370	<370	<360	<350
Di-n-butylphthalate, ug/kg dw	<370	<370	<370	<360	<350
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	<370	<370	<370	<360	<350
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	<370	<370	<370	<360	<350
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	<370	<370	<370	<360	<350
3,3'-Dichlorobenzidine, ug/kg dw	<740	<730	<740	<710	<700
2,4-Dichlorophenol, ug/kg dw	<370	<370	<370	<360	<350
2,6-Dichlorophenol, ug/kg dw	<370	<370	<370	<360	<350
Diethylphthalate, ug/kg dw	<370	<370	<370	<360	<350
p-(Dimethylamino)azobenzene , ug/kg dw	<370	<370	<370	<360	<350
7,12-Dimethylbenz(a)anthrac ene, ug/kg dw	<370	<370	<370	<360	<350

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14862-9	SB-20-1	07-22-99/09:50
14862-10	SB-20-2	07-22-99/09:55

PARAMETER	14862-6	14862-7	14862-8	14862-9	14862-10
3,3'-Dimethylbenzidine, ug/kg dw	<1900	<1900	<1900	<1800	<1800
alpha,alpha-Dimethylpheneth ylamine, ug/kg dw	<76000	<74000	<76000	<72000	<71000
2,4-Dimethylphenol, ug/kg dw	<370	<370	<370	<360	<350
Dimethylphthalate, ug/kg dw	<370	<370	<370	<360	<350
m-Dinitrobenzene , ug/kg dw	<370	<370	<370	<360	<350
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	<1900	<1900	<1900	<1800	<1800
2,4-Dinitrophenol, ug/kg dw	<1900	<1900	<1900	<1800	<1800
2,4-Dinitrotoluene, ug/kg dw	<370	<370	<370	<360	<350
2,6-Dinitrotoluene, ug/kg dw	<370	<370	<370	<360	<350
Dinoseb (2-sec-Butyl-4,6-dinitrophen ol), ug/kg dw	<370	<370	<370	<360	<350
Di-n-octylphthalate, ug/kg dw	<370	<370	<370	<360	<350
1,4-Dioxane, ug/kg dw	<370	<370	<370	<360	<350
Ethyl methanesulfonate, ug/kg dw	<370	<370	<370	<360	<350
Fluoranthene, ug/kg dw	<370	<370	<370	<360	<350

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14862-10	SB-20-2	07-22-99/09:55

PARAMETER	14862-6	14862-7	14862-8	14862-9	14862-10
Fluorene, ug/kg dw	<370	<370	<370	<360	<350
Hexachlorobenzene, ug/kg dw	<370	<370	<370	<360	<350
Hexachlorobutadiene, ug/kg dw	<370	<370	<370	<360	<350
Hexachlorocyclopentadiene, ug/kg dw	<370	<370	<370	<360	<350
Hexachloroethane, ug/kg dw	<370	<370	<370	<360	<350
Hexachlorophene, ug/kg dw	<190000	<190000	<190000	<180000	<180000
Hexachloropropene, ug/kg dw	<370	<370	<370	<360	<350
Indeno(1,2,3-cd)pyrene, ug/kg dw	<370	<370	<370	<360	<350
Isophorone, ug/kg dw	<370	<370	<370	<360	<350
Isosafrole, ug/kg dw	<370	<370	<370	<360	<350
Methapyrilene, ug/kg dw	<76000	<74000	<76000	<72000	<71000
3-Methylcholanthrene, ug/kg dw	<370	<370	<370	<360	<350
Methyl methanesulfonate, ug/kg dw	<370	<370	<370	<360	<350
2-Methylnaphthalene, ug/kg dw	<370	<370	<370	<360	<350
Naphthalene, ug/kg dw	<370	<370	<370	<360	<350
1,4-Naphthoquinone, ug/kg dw	<370	<370	<370	<360	<350
1-Naphthylamine, ug/kg dw	<370	<370	<370	<360	<350
2-Naphthylamine, ug/kg dw	<370	<370	<370	<360	<350

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14862-9	SB-20-1	07-22-99/09:50
14862-10	SB-20-2	07-22-99/09:55

PARAMETER	14862-6	14862-7	14862-8	14862-9	14862-10
2-Nitroaniline (o-Nitroaniline), ug/kg dw	<1900	<1900	<1900	<1800	<1800
3-Nitroaniline (m-Nitroaniline), ug/kg dw	<1900	<1900	<1900	<1800	<1800
4-Nitroaniline (p-Nitroaniline), ug/kg dw	<1900	<1900	<1900	<1800	<1800
Nitrobenzene, ug/kg dw	<370	<370	<370	<360	<350
2-Nitrophenol (o-Nitrophenol), ug/kg dw	<370	<370	<370	<360	<350
4-Nitrophenol (p-Nitrophenol), ug/kg dw	<1900	<1900	<1900	<1800	<1800
4-Nitroquinoline 1-oxide, ug/kg dw	<3700	<3700	<3700	<3600	<3500
N-Nitrosodi-n-butylamine, ug/kg dw	<370	<370	<370	<360	<350
N-Nitrosodiethylamine, ug/kg dw	<370	<370	<370	<360	<350
N-Nitrosodimethylamine, ug/kg dw	<370	<370	<370	<360	<350
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	<370	<370	<370	<360	<350
n-Nitrosodi-n-propylamine, ug/kg dw	<370	<370	<370	<360	<350

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LOG NO: S9-14862
Received: 22 JUL 99
Reported: 04 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 15349084

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-6	SB-29-2	07-22-99/09:25
14862-7	SB-19-1	07-22-99/09:30
14862-8	SB-19-2	07-22-99/09:40
14862-9	SB-20-1	07-22-99/09:50
14862-10	SB-20-2	07-22-99/09:55

PARAMETER	14862-6	14862-7	14862-8	14862-9	14862-10
N-Nitrosomethylethylamine, ug/kg dw	<370	<370	<370	<360	<350
N-Nitrosomorpholine, ug/kg dw	<370	<370	<370	<360	<350
N-Nitrosopiperidine, ug/kg dw	<370	<370	<370	<360	<350
N-Nitrosopyrrolidine, ug/kg dw	<370	<370	<370	<360	<350
5-Nitro-o-toluidine, ug/kg dw	<370	<370	<370	<360	<350
Pentachlorobenzene, ug/kg dw	<370	<370	<370	<360	<350
Pentachloronitrobenzene, ug/kg dw	<370	<370	<370	<360	<350
Pentachlorophenol, ug/kg dw	<1900	<1900	<1900	<1800	<1800
Phenacetin, ug/kg dw	<370	<370	<370	<360	<350
Phenanthrene, ug/kg dw	<370	<370	<370	<360	<350
Phenol, ug/kg dw	<370	<370	<370	<360	<350
1,4-Phenylenediamene (p-Phenylenediamene), ug/kg dw	<1900	<1900	<1900	<1800	<1800
2-Picoline, ug/kg dw	<370	<370	<370	<360	<350
Pronamide, ug/kg dw	<370	<370	<370	<360	<350
Pyrene, ug/kg dw	<370	<370	<370	<360	<350
Pyridine, ug/kg dw	<370	<370	<370	<360	<350

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14862-10	SB-20-2	07-22-99/09:55

PARAMETER	14862-6	14862-7	14862-8	14862-9	14862-10
Safrole, ug/kg dw	<370	<370	<370	<360	<350
1,2,4,5-Tetrachlorobenzene, ug/kg dw	<370	<370	<370	<360	<350
2,3,4,6-Tetrachlorophenol, ug/kg dw	<370	<370	<370	<360	<350
o-Toluidine, ug/kg dw	<370	<370	<370	<360	<350
1,2,4-Trichlorobenzene, ug/kg dw	<370	<370	<370	<360	<350
2,4,5-Trichlorophenol, ug/kg dw	<370	<370	<370	<360	<350
2,4,6-Trichlorophenol, ug/kg dw	<370	<370	<370	<360	<350
O,O,O-Triethyl phosphorothioate, ug/kg dw	<370	<370	<370	<360	<350
1,3,5-Trinitrobenzene, ug/kg dw	<370	<370	<370	<360	<350
Benzidine, ug/kg dw	<3000	<3000	<3000	<2900	<2900
Benzoic acid, ug/kg dw	<1900	<1900	<1900	<1800	<1800
Dimethoate, ug/kg dw	<370	<370	<370	<360	<350
p-Benzoquinone, ug/kg dw	<370	<370	<370	<360	<350
Surrogate - Phenol d5	42 %	30 %	47 %	47 %	54 %
Surrogate - 2-Fluorophenol	47 %	35 %	55 %	58 %	66 %
Surrogate - 2,4,6-Tribromophenol	50 %	43 %	60 %	64 %	77 %

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14862-10	SB-20-2	07-22-99/09:55

PARAMETER	14862-6	14862-7	14862-8	14862-9	14862-10
Surrogate - Nitrobenzene - d5	36 %	28 %	42 %	44 %	44 %
Surrogate - 2-Fluorobiphenyl	47 %	37 %	53 %	61 %	61 %
Surrogate - Terphenyl - d14	48 %	42 %	49 %	61 %	67 %
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Prep Date	07.26.99	07.26.99	07.26.99	07.26.99	07.26.99
Analysis Date	07.28.99	07.28.99	07.28.99	07.28.99	07.28.99
Batch ID	0726E	0726E	0726E	0726E	0726E
Percent Solids	88	90	88	92	94

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14862-13	SB-27-1	07-22-99/10:20
14862-14	SB-27-2	07-22-99/10:25
14862-15	SB-26-1	07-22-99/10:35

PARAMETER	14862-11	14862-12	14862-13	14862-14	14862-15
Volatile Organic Compounds (8260)					
Acetone, ug/kg dw	<64	<67	<65	<56	79
Acetonitrile, ug/kg dw	<260	<270	<260	<220	<280
Acrolein (Propenal), ug/kg dw	<130	<130	<130	<110	<140
Acrylonitrile, ug/kg dw	<130	<130	<130	<110	<140
Benzene, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
Bromodichloromethane, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
Bromoform, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
Bromomethane (Methyl Bromide), ug/kg dw	<13	<13	<13	<11	<14
2-Butanone (Methyl ethyl ketone), ug/kg dw	<32	<33	<32	<28	<35
Carbon disulfide, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
Carbon Tetrachloride, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
Chlorobenzene, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
Chloroethane, ug/kg dw	<13	<13	<13	<11	<14
Chloroform, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
Chloromethane (Methyl Chloride), ug/kg dw	<13	<13	<13	<11	<14

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14862-15	SB-26-1	07-22-99/10:35

PARAMETER	14862-11	14862-12	14862-13	14862-14	14862-15
Chloroprene, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
3-Chloropropene (Allylchloride), ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
Dibromochloromethane, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
1,2-Dibromo-3-chloropropane , ug/kg dw	<13	<13	<13	<11	<14
1,2-Dibromoethane (EDB) , ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
Dibromomethane (Methylene bromide), ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
trans-1,4-Dichloro-2-butene , ug/kg dw	<13	<13	<13	<11	<14
Dichlorodifluoromethane, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
1,1-Dichloroethane, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
1,2-Dichloroethane, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
1,1-Dichloroethene, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
trans-1,2-Dichloroethene, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
1,2-Dichloropropane, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
cis-1,3-Dichloropropene, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
trans-1,3-Dichloropropene, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9

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14862-13	SB-27-1	07-22-99/10:20
14862-14	SB-27-2	07-22-99/10:25
14862-15	SB-26-1	07-22-99/10:35

PARAMETER	14862-11	14862-12	14862-13	14862-14	14862-15
Ethylbenzene, ug/kg dw	<6.4	<6.7	<6.5	20	<6.9
Ethyl methacrylate, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
2-Hexanone, ug/kg dw	<32	<33	34	<28	38
Iodomethane (Methyl iodide), ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
Isobutanol (Isobutyl alcohol), ug/kg dw	<260	<270	<260	<220	<280
Methacrylonitrile, ug/kg dw	<130	<130	<130	<110	<140
Methylene chloride (Dichloromethane), ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
Methyl methacrylate, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
4-Methyl-2-pentanone (MIBK), ug/kg dw	<32	<33	<32	<28	<35
Pentachloroethane, ug/kg dw	<32	<33	<32	<28	<35
Propionitrile, ug/kg dw	<130	<130	<130	<110	<140
Styrene, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
1,1,1,2-Tetrachloroethane, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
1,1,2,2-Tetrachloroethane, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9

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14862-15	SB-26-1	07-22-99/10:35

PARAMETER	14862-11	14862-12	14862-13	14862-14	14862-15
Tetrachloroethene, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
Toluene, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
1,1,1-Trichloroethane, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
1,1,2-Trichloroethane, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
Trichloroethene, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
Trichlorofluoromethane, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
1,2,3-Trichloropropane, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
Vinyl acetate, ug/kg dw	<13	<13	<13	<11	<14
Vinyl chloride, ug/kg dw	<13	<13	<13	<11	<14
Xylenes (total), ug/kg dw	<6.4	<6.7	<6.5	28	<6.9
cis-1,2-Dichloroethene, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
2-Chlorotoluene, ug/kg dw	<6.4	<6.7	<6.5	<5.6	<6.9
2-Chloroethylvinyl Ether, ug/kg dw	<64	<67	<65	<56	<69
Surrogate - Toluene-d8	97 %	98 %	89 %	98 %	97 %
Surrogate - 4-Bromofluorobenzene	102 %	109 %	94 %	100 %	113 %
Surrogate - Dibromofluoromethane	105 %	100 %	97 %	96 %	98 %
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Analysis Date	07.27.99	07.27.99	07.28.99	07.28.99	07.28.99
Batch ID	1H0727	1H0727	1H0728	1H0728	1H0727

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14862-14	SB-27-2	07-22-99/10:25
14862-15	SB-26-1	07-22-99/10:35

PARAMETER	14862-11	14862-12	14862-13	14862-14	14862-15
Acids and Base Neutrals (8270-APP9)					
Acenaphthene, ug/kg dw	<340	<390	<1400	<400	<410
Acenaphthylene, ug/kg dw	<340	<390	2400	<400	830
Acetophenone, ug/kg dw	<340	<390	<1400	<400	<410
2-Acetylaminofluorene, ug/kg dw	<340	<390	<1400	<400	<410
4-Aminobiphenyl, ug/kg dw	<340	<390	<1400	<400	<410
Aniline, ug/kg dw	<340	<390	<1400	<400	<410
Anthracene, ug/kg dw	<340	<390	2800	<400	2200
Aramite (total), ug/kg dw	<340	<390	<1400	<400	<410
Benzo(a)anthracene, ug/kg dw	<340	<390	17000	<400	6800
Benzo(b)fluoranthene, ug/kg dw	<340	<390	17000	<400	5800
Benzo(k)fluoranthene, ug/kg dw	<340	<390	14000	<400	4900
Benzo(g,h,i)perylene, ug/kg dw	<340	<390	9500	<400	3000
Benzo(a)pyrene, ug/kg dw	<340	<390	16000	<400	5200
Benzyl alcohol, ug/kg dw	<340	<390	<1400	<400	<410
bis(2-Chloroethoxy)methane, ug/kg dw	<340	<390	<1400	<400	<410
bis(2-Chloroethyl)ether, ug/kg dw	<340	<390	<1400	<400	<410
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	<340	<390	<1400	<400	<410

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PARAMETER	14862-11	14862-12	14862-13	14862-14	14862-15
bis(2-Ethylhexyl)phthalate, ug/kg dw	<340	<390	<1400	<400	<410
4-Bromophenylphenyl ether, ug/kg dw	<340	<390	<1400	<400	<410
Butylbenzylphthalate, ug/kg dw	<340	<390	<1400	<400	<410
4-Chloroaniline (p-Chloroaniline), ug/kg dw	<690	<770	<2900	<790	<820
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	<340	<390	<1400	<400	<410
2-Chloronaphthalene, ug/kg dw	<340	<390	<1400	<400	<410
2-Chlorophenol, ug/kg dw	<340	<390	<1400	<400	<410
4-Chlorophenylphenyl ether, ug/kg dw	<340	<390	<1400	<400	<410
Chrysene, ug/kg dw	<340	<390	16000	<400	6400
Cresol, m & p, ug/kg dw	<340	<390	<1400	<400	<410
Cresol (ortho), ug/kg dw	<340	<390	<1400	<400	<410
Diallate (total), ug/kg dw	<340	<390	<1400	<400	<410
Dibenzo(a,h)anthracene, ug/kg dw	<340	<390	3900	<400	470

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14862-15	SB-26-1	07-22-99/10:35

PARAMETER	14862-11	14862-12	14862-13	14862-14	14862-15
Dibenzofuran, ug/kg dw	<340	<390	<1400	<400	<410
Di-n-butylphthalate, ug/kg dw	<340	<390	<1400	<400	<410
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	<340	<390	<1400	<400	<410
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	<340	<390	<1400	<400	<410
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	<340	<390	<1400	<400	<410
3,3'-Dichlorobenzidine, ug/kg dw	<690	<770	<2900	<790	<820
2,4-Dichlorophenol, ug/kg dw	<340	<390	<1400	<400	<410
2,6-Dichlorophenol, ug/kg dw	<340	<390	<1400	<400	<410
Diethylphthalate, ug/kg dw	<340	<390	<1400	<400	<410
p-(Dimethylamino)azobenzene , ug/kg dw	<340	<390	<1400	<400	<410
7,12-Dimethylbenz(a)anthrac ene, ug/kg dw	<340	<390	<1400	<400	<410

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LOG NO: S9-14862
Received: 22 JUL 99
Reported: 04 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 15349084

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-11	SB-21-1	07-22-99/10:05
14862-12	SB-21-2	07-22-99/10:05
14862-13	SB-27-1	07-22-99/10:20
14862-14	SB-27-2	07-22-99/10:25
14862-15	SB-26-1	07-22-99/10:35

PARAMETER	14862-11	14862-12	14862-13	14862-14	14862-15
3,3'-Dimethylbenzidine, ug/kg dw	<1800	<390	<7400	<2000	<2100
alpha,alpha-Dimethylpheneth ylamine, ug/kg dw	<70000	<78000	<290000	<80000	<83000
2,4-Dimethylphenol, ug/kg dw	<340	<390	<1400	<400	<410
Dimethylphthalate, ug/kg dw	<340	<390	<1400	<400	<410
m-Dinitrobenzene , ug/kg dw	<340	<390	<1400	<400	<410
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	<1800	<2000	<7400	<2000	<2100
2,4-Dinitrophenol, ug/kg dw	<1800	<2000	<7400	<2000	<2100
2,4-Dinitrotoluene, ug/kg dw	<340	<390	<1400	<400	<410
2,6-Dinitrotoluene, ug/kg dw	<340	<390	<1400	<400	<410
Dinoseb (2-sec-Butyl-4,6-dinitrophen ol), ug/kg dw	<340	<390	<1400	<400	<410
Di-n-octylphthalate, ug/kg dw	<340	<390	<1400	<400	<410
1,4-Dioxane, ug/kg dw	<340	<390	<1400	<400	<410
Ethyl methanesulfonate, ug/kg dw	<340	<390	<1400	<400	<410
Fluoranthene, ug/kg dw	<340	<390	22000	430	13000

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14862-15	SB-26-1	07-22-99/10:35

PARAMETER	14862-11	14862-12	14862-13	14862-14	14862-15
Fluorene, ug/kg dw	<340	<390	<1400	<400	450
Hexachlorobenzene, ug/kg dw	<340	<390	<1400	<400	<410
Hexachlorobutadiene, ug/kg dw	<340	<390	<1400	<400	<410
Hexachlorocyclopentadiene, ug/kg dw	<340	<390	<1400	<400	<410
Hexachloroethane, ug/kg dw	<340	<390	<1400	<400	<410
Hexachlorophene, ug/kg dw	<180000	<200000	<740000	<200000	<210000
Hexachloropropene, ug/kg dw	<340	<390	<1400	<400	<410
Indeno(1,2,3-cd)pyrene, ug/kg dw	<340	<390	11000	<400	3500
Isophorone, ug/kg dw	<340	<390	<1400	<400	<410
Isosafrole, ug/kg dw	<340	<390	<1400	<400	<410
Methapyrilene, ug/kg dw	<70000	<78000	<290000	<80000	<83000
3-Methylcholanthrene, ug/kg dw	<340	<390	<1400	<400	<410
Methyl methanesulfonate, ug/kg dw	<340	<390	<1400	<400	<410
2-Methylnaphthalene, ug/kg dw	<340	<390	<1400	<400	<410
Naphthalene, ug/kg dw	<340	<390	<1400	<400	<410
1,4-Naphthoquinone, ug/kg dw	<340	<390	<1400	<400	<410
1-Naphthylamine, ug/kg dw	<340	<390	<1400	<400	<410
2-Naphthylamine, ug/kg dw	<340	<390	<1400	<400	<410

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14862-14	SB-27-2	07-22-99/10:25
14862-15	SB-26-1	07-22-99/10:35

PARAMETER	14862-11	14862-12	14862-13	14862-14	14862-15
2-Nitroaniline (o-Nitroaniline), ug/kg dw	<1800	<2000	<7400	<2000	<2100
3-Nitroaniline (m-Nitroaniline), ug/kg dw	<1800	<2000	<7400	<2000	<2100
4-Nitroaniline (p-Nitroaniline), ug/kg dw	<1800	<2000	<7400	<2000	<2100
Nitrobenzene, ug/kg dw	<340	<390	<1400	<400	<410
2-Nitrophenol (o-Nitrophenol), ug/kg dw	<340	<390	<1400	<400	<410
4-Nitrophenol (p-Nitrophenol), ug/kg dw	<1800	<2000	<7400	<2000	<2100
4-Nitroquinoline 1-oxide, ug/kg dw	<3400	<3900	<14000	<4000	<4100
N-Nitrosodi-n-butylamine, ug/kg dw	<340	<390	<1400	<400	<410
N-Nitrosodiethylamine, ug/kg dw	<340	<390	<1400	<400	<410
N-Nitrosodimethylamine, ug/kg dw	<340	<390	<1400	<400	<410
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	<340	<390	<1400	<400	<410
n-Nitrosodi-n-propylamine, ug/kg dw	<340	<390	<1400	<400	<410

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14862-14	SB-27-2	07-22-99/10:25
14862-15	SB-26-1	07-22-99/10:35

PARAMETER	14862-11	14862-12	14862-13	14862-14	14862-15
N-Nitrosomethylethylamine, ug/kg dw	<340	<390	<1400	<400	<410
N-Nitrosomorpholine, ug/kg dw	<340	<390	<1400	<400	<410
N-Nitrosopiperidine, ug/kg dw	<340	<390	<1400	<400	<410
N-Nitrosopyrrolidine, ug/kg dw	<340	<390	<1400	<400	<410
5-Nitro-o-toluidine, ug/kg dw	<340	<390	<1400	<400	<410
Pentachlorobenzene, ug/kg dw	<340	<390	<1400	<400	<410
Pentachloronitrobenzene, ug/kg dw	<340	<390	<1400	<400	<410
Pentachlorophenol, ug/kg dw	<1800	<2000	<7400	<2000	<2100
Phenacetin, ug/kg dw	<340	<390	<1400	<400	<410
Phenanthrene, ug/kg dw	<340	<390	7100	<400	7300
Phenol, ug/kg dw	<340	<390	<1400	<400	<410
1,4-Phenylenediamene (p-Phenylenediamene), ug/kg dw	<1800	<2000	<7400	<2000	<2100
2-Picoline, ug/kg dw	<340	<390	<1400	<400	<410
Pronamide, ug/kg dw	<340	<390	<1400	<400	<410
Pyrene, ug/kg dw	<340	<390	18000	410	8700
Pyridine, ug/kg dw	<340	<390	<1400	<400	<410

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14862-14	SB-27-2	07-22-99/10:25
14862-15	SB-26-1	07-22-99/10:35

PARAMETER	14862-11	14862-12	14862-13	14862-14	14862-15
Safrole, ug/kg dw	<340	<390	<1400	<400	<410
1,2,4,5-Tetrachlorobenzene, ug/kg dw	<340	<390	<1400	<400	<410
2,3,4,6-Tetrachlorophenol, ug/kg dw	<340	<390	<1400	<400	<410
o-Toluidine, ug/kg dw	<340	<390	<1400	<400	<410
1,2,4-Trichlorobenzene, ug/kg dw	<340	<390	<1400	<400	<410
2,4,5-Trichlorophenol, ug/kg dw	<340	<390	<1400	<400	<410
2,4,6-Trichlorophenol, ug/kg dw	<340	<390	<1400	<400	<410
O,O,O-Triethyl phosphorothioate, ug/kg dw	<340	<390	<1400	<400	<410
1,3,5-Trinitrobenzene, ug/kg dw	<340	<390	<1400	<400	<410
Benzidine, ug/kg dw	<2800	<3200	<12000	<3200	<3400
Benzoic acid, ug/kg dw	<1800	<2000	<7400	<2000	<2100
Dimethoate, ug/kg dw	<340	<390	<1400	<400	<410
p-Benzoquinone, ug/kg dw	<340	<390	<1400	<400	<410
Surrogate - Phenol d5	57 %	44 %	53 %	50 %	44 %
Surrogate - 2-Fluorophenol	66 %	46 %	58 %	55 %	51 %
Surrogate - 2,4,6-Tribromophenol	77 %	49 %	42 %	68 %	61 %

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14862-14	SB-27-2	07-22-99/10:25
14862-15	SB-26-1	07-22-99/10:35

PARAMETER	14862-11	14862-12	14862-13	14862-14	14862-15
Surrogate - Nitrobenzene - d5	52 %	30 %	44 %	42 %	37 %
Surrogate - 2-Fluorobiphenyl	70 %	48 %	52 %	55 %	46 %
Surrogate - Terphenyl - d14	70 %	48 %	50 %	48 %	43 %
Dilution Factor	1.0	1.0	4.0	1.0	1.0
Prep Date	07.26.99	07.26.99	07.26.99	07.26.99	07.26.99
Analysis Date	07.28.99	07.31.99	07.31.99	07.31.99	07.31.99
Batch ID	0726E	0726E	0726E	0726E	0726E
Percent Solids	95	85	92	83	80

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14862-16	SB-26-2	07-22-99/10:40
14862-17	SB-25-1	07-22-99/10:50
14862-18	SB-25-2	07-22-99/10:55
14862-19	SB-22-1	07-22-99/11:30
14862-20	SB-22-2	07-22-99/11:35

PARAMETER	14862-16	14862-17	14862-18	14862-19	14862-20
Volatile Organic Compounds (8260)					
Acetone, ug/kg dw	<65	<56	<60	<66	<54
Acetonitrile, ug/kg dw	<260	<220	<240	<260	<220
Acrolein (Propenal), ug/kg dw	<130	<110	<120	<130	<110
Acrylonitrile, ug/kg dw	<130	<110	<120	<130	<110
Benzene, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Bromodichloromethane, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Bromoform, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Bromomethane (Methyl Bromide), ug/kg dw	<13	<11	<12	<13	<11
2-Butanone (Methyl ethyl ketone), ug/kg dw	<32	<28	<30	<33	<27
Carbon disulfide, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Carbon Tetrachloride, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Chlorobenzene, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Chloroethane, ug/kg dw	<13	<11	<12	<13	<11
Chloroform, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Chloromethane (Methyl Chloride), ug/kg dw	<13	<11	<12	<13	<11

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14862-19	SB-22-1	07-22-99/11:30
14862-20	SB-22-2	07-22-99/11:35

PARAMETER	14862-16	14862-17	14862-18	14862-19	14862-20
Chloroprene, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
3-Chloropropene (Allylchloride), ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Dibromochloromethane, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
1,2-Dibromo-3-chloropropane , ug/kg dw	<13	<11	<12	<13	<11
1,2-Dibromoethane (EDB) , ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Dibromomethane (Methylene bromide), ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
trans-1,4-Dichloro-2-butene , ug/kg dw	<13	<11	<12	<13	<11
Dichlorodifluoromethane, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
1,1-Dichloroethane, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
1,2-Dichloroethane, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
1,1-Dichloroethene, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
trans-1,2-Dichloroethene, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
1,2-Dichloropropane, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
cis-1,3-Dichloropropene, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
trans-1,3-Dichloropropene, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4

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14862-19	SB-22-1	07-22-99/11:30
14862-20	SB-22-2	07-22-99/11:35

PARAMETER	14862-16	14862-17	14862-18	14862-19	14862-20
Ethylbenzene, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Ethyl methacrylate, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
2-Hexanone, ug/kg dw	<32	<28	<30	<33	<27
Iodomethane (Methyl iodide), ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Isobutanol (Isobutyl alcohol), ug/kg dw	<260	<220	<240	<260	<220
Methacrylonitrile, ug/kg dw	<130	<110	<120	<130	<110
Methylene chloride (Dichloromethane), ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Methyl methacrylate, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
4-Methyl-2-pentanone (MIBK), ug/kg dw	<32	<28	<30	<33	<27
Pentachloroethane, ug/kg dw	<32	<28	<30	<33	<27
Propionitrile, ug/kg dw	<130	<110	<120	<130	<110
Styrene, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
1,1,1,2-Tetrachloroethane, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
1,1,2,2-Tetrachloroethane, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4

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14862-19	SB-22-1	07-22-99/11:30
14862-20	SB-22-2	07-22-99/11:35

PARAMETER	14862-16	14862-17	14862-18	14862-19	14862-20
Tetrachloroethene, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Toluene, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
1,1,1-Trichloroethane, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
1,1,2-Trichloroethane, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Trichloroethene, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Trichlorofluoromethane, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
1,2,3-Trichloropropane, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
Vinyl acetate, ug/kg dw	<13	<11	<12	<13	<11
Vinyl chloride, ug/kg dw	<13	<11	<12	<13	<11
Xylenes (total), ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
cis-1,2-Dichloroethene, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
2-Chlorotoluene, ug/kg dw	<6.5	<5.6	<6.0	<6.6	<5.4
2-Chloroethylvinyl Ether, ug/kg dw	<65	<56	<60	<66	<54
Surrogate - Toluene-d8	98 %	88 %	92 %	94 %	92 %
Surrogate - 4-Bromofluorobenzene	103 %	130 %	117 %	109 %	94 %
Surrogate - Dibromofluoromethane	97 %	100 %	100 %	98 %	104 %
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Analysis Date	07.28.99	07.28.99	07.28.99	07.28.99	07.28.99
Batch ID	1H0728	1H0727	1H0727	1H0727	1H0727

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LOG NO: S9-14862
Received: 22 JUL 99
Reported: 04 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 15349084

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-16	SB-26-2	07-22-99/10:40
14862-17	SB-25-1	07-22-99/10:50
14862-18	SB-25-2	07-22-99/10:55
14862-19	SB-22-1	07-22-99/11:30
14862-20	SB-22-2	07-22-99/11:35

PARAMETER	14862-16	14862-17	14862-18	14862-19	14862-20
Acids and Base Neutrals (8270-APP9)					
Acenaphthene, ug/kg dw	<410	<370	<390	<400	<400
Acenaphthylene, ug/kg dw	<410	1600	<390	<400	<400
Acetophenone, ug/kg dw	<410	<370	<390	<400	<400
2-Acetylaminofluorene, ug/kg dw	<410	<370	<390	<400	<400
4-Aminobiphenyl, ug/kg dw	<410	<370	<390	<400	<400
Aniline, ug/kg dw	<410	<370	<390	<400	<400
Anthracene, ug/kg dw	<410	1500	<390	<400	<400
Aramite (total), ug/kg dw	<410	<370	<390	<400	<400
Benzo(a)anthracene, ug/kg dw	<410	7400	<390	<400	<400
Benzo(b)fluoranthene, ug/kg dw	<410	7000	<390	<400	<400
Benzo(k)fluoranthene, ug/kg dw	<410	5600	<390	<400	<400
Benzo(g,h,i)perylene, ug/kg dw	<410	3800	<390	<400	<400
Benzo(a)pyrene, ug/kg dw	<410	6200	<390	<400	<400
Benzyl alcohol, ug/kg dw	<410	<370	<390	<400	<400
bis(2-Chloroethoxy)methane, ug/kg dw	<410	<370	<390	<400	<400
bis(2-Chloroethyl)ether, ug/kg dw	<410	<370	<390	<400	<400
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	<410	<370	<390	<400	<400

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14862-19	SB-22-1	07-22-99/11:30
14862-20	SB-22-2	07-22-99/11:35

PARAMETER	14862-16	14862-17	14862-18	14862-19	14862-20
bis(2-Ethylhexyl)phthalate, ug/kg dw	<410	<370	<390	<400	<400
4-Bromophenylphenyl ether, ug/kg dw	<410	<370	<390	<400	<400
Butylbenzylphthalate, ug/kg dw	<410	<370	<390	<400	<400
4-Chloroaniline (p-Chloroaniline), ug/kg dw	<820	<740	<790	<800	<800
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	<410	<370	<390	<400	<400
2-Chloronaphthalene, ug/kg dw	<410	<370	<390	<400	<400
2-Chlorophenol, ug/kg dw	<410	<370	<390	<400	<400
4-Chlorophenylphenyl ether, ug/kg dw	<410	<370	<390	<400	<400
Chrysene, ug/kg dw	<410	7200	<390	<400	<400
Cresol, m & p, ug/kg dw	<410	<370	<390	<400	<400
Cresol (ortho), ug/kg dw	<410	<370	<390	<400	<400
Diallate (total), ug/kg dw	<410	<370	<390	<400	<400
Dibenzo(a,h)anthracene, ug/kg dw	<410	1800	<390	<400	<400

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14862-19	SB-22-1	07-22-99/11:30
14862-20	SB-22-2	07-22-99/11:35

PARAMETER	14862-16	14862-17	14862-18	14862-19	14862-20
Dibenzofuran, ug/kg dw	<410	<370	<390	<400	<400
Di-n-butylphthalate, ug/kg dw	<410	<370	<390	<400	<400
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	<410	<370	<390	<400	<400
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	<410	<370	<390	<400	<400
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	<410	<370	<390	<400	<400
3,3'-Dichlorobenzidine, ug/kg dw	<820	<740	<790	<800	<800
2,4-Dichlorophenol, ug/kg dw	<410	<370	<390	<400	<400
2,6-Dichlorophenol, ug/kg dw	<410	<370	<390	<400	<400
Diethylphthalate, ug/kg dw	<410	<370	<390	<400	<400
p-(Dimethylamino)azobenzene , ug/kg dw	<410	<370	<390	<400	<400
7,12-Dimethylbenz(a)anthracene, ug/kg dw	<410	<370	<390	<400	<400

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14862-19	SB-22-1	07-22-99/11:30
14862-20	SB-22-2	07-22-99/11:35

PARAMETER	14862-16	14862-17	14862-18	14862-19	14862-20
3,3'-Dimethylbenzidine, ug/kg dw	<2100	<1900	<2000	<2000	<2100
alpha,alpha-Dimethylpheneth ylamine, ug/kg dw	<83000	<75000	<80000	<81000	<82000
2,4-Dimethylphenol, ug/kg dw	<410	<370	<390	<400	<400
Dimethylphthalate, ug/kg dw	<410	<370	<390	<400	<400
m-Dinitrobenzene , ug/kg dw	<410	<370	<390	<400	<400
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	<2100	<1900	<2000	<2000	<2100
2,4-Dinitrophenol, ug/kg dw	<2100	<1900	<2000	<2000	<2100
2,4-Dinitrotoluene, ug/kg dw	<410	<370	<390	<400	<400
2,6-Dinitrotoluene, ug/kg dw	<410	<370	<390	<400	<400
Dinoseb (2-sec-Butyl-4,6-dinitrophen ol), ug/kg dw	<410	<370	<390	<400	<400
Di-n-octylphthalate, ug/kg dw	<410	<370	<390	<400	<400
1,4-Dioxane, ug/kg dw	<410	<370	<390	<400	<400
Ethyl methanesulfonate, ug/kg dw	<410	<370	<390	<400	<400
Fluoranthene, ug/kg dw	<410	11000	<390	<400	<400

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14862-19	SB-22-1	07-22-99/11:30
14862-20	SB-22-2	07-22-99/11:35

PARAMETER	14862-16	14862-17	14862-18	14862-19	14862-20
Fluorene, ug/kg dw	<410	<370	<390	<400	<400
Hexachlorobenzene, ug/kg dw	<410	<370	<390	<400	<400
Hexachlorobutadiene, ug/kg dw	<410	<370	<390	<400	<400
Hexachlorocyclopentadiene, ug/kg dw	<410	<370	<390	<400	<400
Hexachloroethane, ug/kg dw	<410	<370	<390	<400	<400
Hexachlorophene, ug/kg dw	<210000	<190000	<200000	<200000	<210000
Hexachloropropene, ug/kg dw	<410	<370	<390	<400	<400
Indeno(1,2,3-cd)pyrene, ug/kg dw	<410	4600	<390	<400	<400
Isophorone, ug/kg dw	<410	<370	<390	<400	<400
Isosafrole, ug/kg dw	<410	<370	<390	<400	<400
Methapyrilene, ug/kg dw	<83000	<75000	<80000	<81000	<82000
3-Methylcholanthrene, ug/kg dw	<410	<370	<390	<400	<400
Methyl methanesulfonate, ug/kg dw	<410	<370	<390	<400	<400
2-Methylnaphthalene, ug/kg dw	<410	<370	<390	<400	<400
Naphthalene, ug/kg dw	<410	<370	<390	<400	<400
1,4-Naphthoquinone, ug/kg dw	<410	<370	<390	<400	<400
1-Naphthylamine, ug/kg dw	<410	<370	<390	<400	<400
2-Naphthylamine, ug/kg dw	<410	<370	<390	<400	<400

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14862-17	SB-25-1	07-22-99/10:50
14862-18	SB-25-2	07-22-99/10:55
14862-19	SB-22-1	07-22-99/11:30
14862-20	SB-22-2	07-22-99/11:35

PARAMETER	14862-16	14862-17	14862-18	14862-19	14862-20
2-Nitroaniline (o-Nitroaniline), ug/kg dw	<2100	<1900	<2000	<2000	<2100
3-Nitroaniline (m-Nitroaniline), ug/kg dw	<2100	<1900	<2000	<2000	<2100
4-Nitroaniline (p-Nitroaniline), ug/kg dw	<2100	<1900	<2000	<2000	<2100
Nitrobenzene, ug/kg dw	<410	<370	<390	<400	<400
2-Nitrophenol (o-Nitrophenol), ug/kg dw	<410	<370	<390	<400	<400
4-Nitrophenol (p-Nitrophenol), ug/kg dw	<2100	<1900	<2000	<2000	<2100
4-Nitroquinoline 1-oxide, ug/kg dw	<4100	<3700	<3900	<4000	<4000
N-Nitrosodi-n-butylamine, ug/kg dw	<410	<370	<390	<400	<400
N-Nitrosodiethylamine, ug/kg dw	<410	<370	<390	<400	<400
N-Nitrosodimethylamine, ug/kg dw	<410	<370	<390	<400	<400
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	<410	<370	<390	<400	<400
n-Nitrosodi-n-propylamine, ug/kg dw	<410	<370	<390	<400	<400

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14862-18	SB-25-2	07-22-99/10:55
14862-19	SB-22-1	07-22-99/11:30
14862-20	SB-22-2	07-22-99/11:35

PARAMETER	14862-16	14862-17	14862-18	14862-19	14862-20
N-Nitrosomethylethylamine, ug/kg dw	<410	<370	<390	<400	<400
N-Nitrosomorpholine, ug/kg dw	<410	<370	<390	<400	<400
N-Nitrosopiperidine, ug/kg dw	<410	<370	<390	<400	<400
N-Nitrosopyrrolidine, ug/kg dw	<410	<370	<390	<400	<400
5-Nitro-o-toluidine, ug/kg dw	<410	<370	<390	<400	<400
Pentachlorobenzene, ug/kg dw	<410	<370	<390	<400	<400
Pentachloronitrobenzene, ug/kg dw	<410	<370	<390	<400	<400
Pentachlorophenol, ug/kg dw	<2100	<1900	<2000	<2000	<2100
Phenacetin, ug/kg dw	<410	<370	<390	<400	<400
Phenanthrene, ug/kg dw	<410	2000	<390	<400	<400
Phenol, ug/kg dw	<410	<370	<390	<400	<400
1,4-Phenylenediamene (p-Phenylenediamene), ug/kg dw	<2100	<1900	<2000	<2000	<2100
2-Picoline, ug/kg dw	<410	<370	<390	<400	<400
Pronamide, ug/kg dw	<410	<370	<390	<400	<400
Pyrene, ug/kg dw	<410	8500	<390	<400	<400
Pyridine, ug/kg dw	<410	<370	<390	<400	<400

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14862-19	SB-22-1	07-22-99/11:30
14862-20	SB-22-2	07-22-99/11:35

PARAMETER	14862-16	14862-17	14862-18	14862-19	14862-20
Safrole, ug/kg dw	<410	<370	<390	<400	<400
1,2,4,5-Tetrachlorobenzene, ug/kg dw	<410	<370	<390	<400	<400
2,3,4,6-Tetrachlorophenol, ug/kg dw	<410	<370	<390	<400	<400
o-Toluidine, ug/kg dw	<410	<370	<390	<400	<400
1,2,4-Trichlorobenzene, ug/kg dw	<410	<370	<390	<400	<400
2,4,5-Trichlorophenol, ug/kg dw	<410	<370	<390	<400	<400
2,4,6-Trichlorophenol, ug/kg dw	<410	<370	<390	<400	<400
O,O,O-Triethyl phosphorothioate, ug/kg dw	<410	<370	<390	<400	<400
1,3,5-Trinitrobenzene, ug/kg dw	<410	<370	<390	<400	<400
Benzidine, ug/kg dw	<3400	<3000	<3200	<3300	<3300
Benzoic acid, ug/kg dw	<2100	<1800	<1800	<2000	<2100
Dimethoate, ug/kg dw	<410	<370	<390	<400	<400
p-Benzoquinone, ug/kg dw	<410	<3000	<390	<400	<400
Surrogate - Phenol d5	57 %	43 %	45 %	40 %	46 %
Surrogate - 2-Fluorophenol	64 %	51 %	52 %	42 %	51 %
Surrogate - 2,4,6-Tribromophenol	95 %	70 %	80 %	45 %	54 %

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14862-19	SB-22-1	07-22-99/11:30
14862-20	SB-22-2	07-22-99/11:35

PARAMETER	14862-16	14862-17	14862-18	14862-19	14862-20
Surrogate - Nitrobenzene - d5	48 %	41 %	44 %	30 %	40 %
Surrogate - 2-Fluorobiphenyl	62 %	42 %	55 %	38 %	48 %
Surrogate - Terphenyl - d14	62 %	44 %	48 %	44 %	50 %
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Prep Date	07.26.99	07.26.99	07.26.99	07.26.99	07.26.99
Analysis Date	07.31.99	07.31.99	07.31.99	07.31.99	07.31.99
Batch ID	0726E	0726E	0726E	0726E	0726E
Percent Solids	80	89	83	82	82

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14862-21	Duplicate A	07-22-99
14862-22	Duplicate B	07-22-99

PARAMETER	14862-21	14862-22
Volatile Organic Compounds (8260)		
Acetone, ug/kg dw	<64	<53
Acetonitrile, ug/kg dw	<260	<210
Acrolein (Propenal), ug/kg dw	<130	<100
Acrylonitrile, ug/kg dw	<130	<100
Benzene, ug/kg dw	<6.4	<5.3
Bromodichloromethane, ug/kg dw	<6.4	<5.3
Bromoform, ug/kg dw	<6.4	<5.3
Bromomethane (Methyl Bromide), ug/kg dw	<13	<10
2-Butanone (Methyl ethyl ketone), ug/kg dw	<32	<26
Carbon disulfide, ug/kg dw	<6.4	<5.3
Carbon Tetrachloride, ug/kg dw	<6.4	<5.3
Chlorobenzene, ug/kg dw	<6.4	<5.3
Chloroethane, ug/kg dw	<13	<10
Chloroform, ug/kg dw	<6.4	<5.3
Chloromethane (Methyl Chloride), ug/kg dw	<13	<10
Chloroprene, ug/kg dw	<6.4	<5.3
3-Chloropropene (Allylchloride), ug/kg dw	<6.4	<5.3
Dibromochloromethane, ug/kg dw	<6.4	<5.3
1,2-Dibromo-3-chloropropane, ug/kg dw	<13	<10
1,2-Dibromoethane (EDB) , ug/kg dw	<6.4	<5.3
Dibromomethane (Methylene bromide), ug/kg dw	<6.4	<5.3

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LOG NO: S9-14862
Received: 22 JUL 99
Reported: 04 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 15349084

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-21	Duplicate A	07-22-99
14862-22	Duplicate B	07-22-99

PARAMETER	14862-21	14862-22
trans-1,4-Dichloro-2-butene, ug/kg dw	<13	<10
Dichlorodifluoromethane, ug/kg dw	<6.4	<5.3
1,1-Dichloroethane, ug/kg dw	<6.4	<5.3
1,2-Dichloroethane, ug/kg dw	<6.4	<5.3
1,1-Dichloroethene, ug/kg dw	<6.4	<5.3
trans-1,2-Dichloroethene, ug/kg dw	<6.4	<5.3
1,2-Dichloropropane, ug/kg dw	<6.4	<5.3
cis-1,3-Dichloropropene, ug/kg dw	<6.4	<5.3
trans-1,3-Dichloropropene, ug/kg dw	<6.4	<5.3
Ethylbenzene, ug/kg dw	<6.4	<5.3
Ethyl methacrylate, ug/kg dw	<6.4	<5.3
2-Hexanone, ug/kg dw	<32	<26
Iodomethane (Methyl iodide), ug/kg dw	<6.4	<5.3
Isobutanol (Isobutyl alcohol), ug/kg dw	<260	<210
Methacrylonitrile, ug/kg dw	<130	<100
Methylene chloride (Dichloromethane), ug/kg dw	<6.4	<5.3
Methyl methacrylate, ug/kg dw	<6.4	<5.3
4-Methyl-2-pentanone (MIBK), ug/kg dw	<32	<26
Pentachloroethane, ug/kg dw	<32	<26
Propionitrile, ug/kg dw	<130	<100
Styrene, ug/kg dw	<6.4	<5.3
1,1,1,2-Tetrachloroethane, ug/kg dw	<6.4	<5.3

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-21	Duplicate A	07-22-99
14862-22	Duplicate B	07-22-99

PARAMETER	14862-21	14862-22
1,1,2,2-Tetrachloroethane, ug/kg dw	<6.4	<5.3
Tetrachloroethene, ug/kg dw	<6.4	<5.3
Toluene, ug/kg dw	<6.4	<5.3
1,1,1-Trichloroethane, ug/kg dw	<6.4	<5.3
1,1,2-Trichloroethane, ug/kg dw	<6.4	<5.3
Trichloroethene, ug/kg dw	<6.4	<5.3
Trichlorofluoromethane, ug/kg dw	<6.4	<5.3
1,2,3-Trichloropropane, ug/kg dw	<6.4	<5.3
Vinyl acetate, ug/kg dw	<13	<10
Vinyl chloride, ug/kg dw	<13	<10
Xylenes (total), ug/kg dw	<6.4	<5.3
cis-1,2-Dichloroethene, ug/kg dw	<6.4	<5.3
2-Chlorotoluene, ug/kg dw	<6.4	<5.3
2-Chloroethylvinyl Ether, ug/kg dw	<64	<53
Surrogate - Toluene-d8	97 %	92 %
Surrogate - 4-Bromofluorobenzene	112 %	102 %
Surrogate - Dibromofluoromethane	97 %	98 %
Dilution Factor	1.0	1.0
Analysis Date	07.28.99	07.28.99
Batch ID	1H0728	1H0727

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-21	Duplicate A	07-22-99
14862-22	Duplicate B	07-22-99

PARAMETER	14862-21	14862-22
Acids and Base Neutrals (8270-APP9)		
Acenaphthene, ug/kg dw	<390	<350
Acenaphthylene, ug/kg dw	<390	<350
Acetophenone, ug/kg dw	<390	<350
2-Acetylaminofluorene, ug/kg dw	<390	<350
4-Aminobiphenyl, ug/kg dw	<390	<350
Aniline, ug/kg dw	<390	<350
Anthracene, ug/kg dw	<390	<350
Aramite (total), ug/kg dw	<390	<350
Benzo(a)anthracene, ug/kg dw	<390	<350
Benzo(b)fluoranthene, ug/kg dw	420	<350
Benzo(k)fluoranthene, ug/kg dw	430	<350
Benzo(g,h,i)perylene, ug/kg dw	<390	<350
Benzo(a)pyrene, ug/kg dw	410	<350
Benzyl alcohol, ug/kg dw	<390	<350
bis(2-Chloroethoxy)methane, ug/kg dw	<390	<350
bis(2-Chloroethyl)ether, ug/kg dw	<390	<350
2,2'-Oxybis(1-chloropropane) [bis(2-Chloroisopropyl)ether], ug/kg dw	<390	<350
bis(2-Ethylhexyl)phthalate, ug/kg dw	<390	<350
4-Bromophenylphenyl ether, ug/kg dw	<390	<350
Butylbenzylphthalate, ug/kg dw	<390	<350

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-21	Duplicate A	07-22-99
14862-22	Duplicate B	07-22-99

PARAMETER	14862-21	14862-22			
4-Chloroaniline (p-Chloroaniline), ug/kg dw	<770	<710			
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	<390	<350			
2-Chloronaphthalene, ug/kg dw	<390	<350			
2-Chlorophenol, ug/kg dw	<390	<350			
4-Chlorophenylphenyl ether, ug/kg dw	<390	<350			
Chrysene, ug/kg dw	590	<350			
Cresol, m & p, ug/kg dw	<390	<350			
Cresol (ortho), ug/kg dw	<390	<350			
Diallate (total), ug/kg dw	<390	<350			
Dibenzo(a,h)anthracene, ug/kg dw	<390	<350			
Dibenzofuran, ug/kg dw	<390	<350			
Di-n-butylphthalate, ug/kg dw	<390	<350			
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	<390	<350			
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	<390	<350			
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	<390	<350			
3,3'-Dichlorobenzidine, ug/kg dw	<770	<710			
2,4-Dichlorophenol, ug/kg dw	<390	<350			
2,6-Dichlorophenol, ug/kg dw	<390	<350			
Diethylphthalate, ug/kg dw	<390	<350			
p-(Dimethylamino)azobenzene, ug/kg dw	<390	<350			
7,12-Dimethylbenz(a)anthracene, ug/kg dw	<390	<350			
3,3'-Dimethylbenzidine, ug/kg dw	<2000	<1800			

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-21	Duplicate A	07-22-99
14862-22	Duplicate B	07-22-99

PARAMETER	14862-21	14862-22
alpha,alpha-Dimethylphenethylamine, ug/kg dw	<78000	<72000
2,4-Dimethylphenol, ug/kg dw	<390	<350
Dimethylphthalate, ug/kg dw	<390	<350
m-Dinitrobenzene , ug/kg dw	<390	<350
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	<2000	<1800
2,4-Dinitrophenol, ug/kg dw	<2000	<1800
2,4-Dinitrotoluene, ug/kg dw	<390	<350
2,6-Dinitrotoluene, ug/kg dw	<390	<350
Dinoseb (2-sec-Butyl-4,6-dinitrophenol), ug/kg dw	<390	<350
Di-n-octylphthalate, ug/kg dw	<390	<350
1,4-Dioxane, ug/kg dw	<390	<350
Ethyl methanesulfonate, ug/kg dw	<390	<350
Fluoranthene, ug/kg dw	1100	<350
Fluorene, ug/kg dw	<390	<350
Hexachlorobenzene, ug/kg dw	<390	<350
Hexachlorobutadiene, ug/kg dw	<390	<350
Hexachlorocyclopentadiene, ug/kg dw	<390	<350
Hexachloroethane, ug/kg dw	<390	<350
Hexachlorophene, ug/kg dw	<200000	<180000
Hexachloropropene, ug/kg dw	<390	<350
Indeno(1,2,3-cd)pyrene, ug/kg dw	<390	<350

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-21	Duplicate A	07-22-99
14862-22	Duplicate B	07-22-99

PARAMETER	14862-21	14862-22
Isophorone, ug/kg dw	<390	<350
Isosafrole, ug/kg dw	<390	<350
Methapyrilene, ug/kg dw	<78000	<72000
3-Methylcholanthrene, ug/kg dw	<390	<350
Methyl methanesulfonate, ug/kg dw	<390	<350
2-Methylnaphthalene, ug/kg dw	<390	<350
Naphthalene, ug/kg dw	<390	<350
1,4-Naphthoquinone, ug/kg dw	<390	<350
1-Naphthylamine, ug/kg dw	<390	<350
2-Naphthylamine, ug/kg dw	<390	<350
2-Nitroaniline (o-Nitroaniline), ug/kg dw	<2000	<1800
3-Nitroaniline (m-Nitroaniline), ug/kg dw	<2000	<1800
4-Nitroaniline (p-Nitroaniline), ug/kg dw	<2000	<1800
Nitrobenzene, ug/kg dw	<390	<350
2-Nitrophenol (o-Nitrophenol), ug/kg dw	<390	<350
4-Nitrophenol (p-Nitrophenol), ug/kg dw	<2000	<1800
4-Nitroquinoline 1-oxide, ug/kg dw	<3900	<3500
N-Nitrosodi-n-butylamine, ug/kg dw	<390	<350
N-Nitrosodiethylamine, ug/kg dw	<390	<350
N-Nitrosodimethylamine, ug/kg dw	<390	<350
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	<390	<350
n-Nitrosodi-n-propylamine, ug/kg dw	<390	<350

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-21	Duplicate A	07-22-99
14862-22	Duplicate B	07-22-99

PARAMETER	14862-21	14862-22
N-Nitrosomethylethylamine, ug/kg dw	<390	<350
N-Nitrosomorpholine, ug/kg dw	<390	<350
N-Nitrosopiperidine, ug/kg dw	<390	<350
N-Nitrosopyrrolidine, ug/kg dw	<390	<350
5-Nitro-o-toluidine, ug/kg dw	<390	<350
Pentachlorobenzene, ug/kg dw	<390	<350
Pentachloronitrobenzene, ug/kg dw	<390	<350
Pentachlorophenol, ug/kg dw	<2000	<1800
Phenacetin, ug/kg dw	<390	<350
Phenanthrene, ug/kg dw	690	<350
Phenol, ug/kg dw	<390	<350
1,4-Phenylenediamene (p-Phenylenediamene), ug/kg dw	<2000	<1800
2-Picoline, ug/kg dw	<390	<350
Pronamide, ug/kg dw	<390	<350
Pyrene, ug/kg dw	830	<350
Pyridine, ug/kg dw	<390	<350
Safrole, ug/kg dw	<390	<350
1,2,4,5-Tetrachlorobenzene, ug/kg dw	<390	<350
2,3,4,6-Tetrachlorophenol, ug/kg dw	<390	<350
o-Toluidine, ug/kg dw	<390	<350
1,2,4-Trichlorobenzene, ug/kg dw	<390	<350
2,4,5-Trichlorophenol, ug/kg dw	<390	<350

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862-21	Duplicate A	07-22-99
14862-22	Duplicate B	07-22-99

PARAMETER	14862-21	14862-22
2,4,6-Trichlorophenol, ug/kg dw	<390	<350
O,O,O-Triethyl phosphorothioate, ug/kg dw	<390	<350
1,3,5-Trinitrobenzene, ug/kg dw	<390	<350
Benzidine, ug/kg dw	<3200	<2900
Benzoic acid, ug/kg dw	<2000	<1800
Dimethoate, ug/kg dw	<390	<350
p-Benzoquinone, ug/kg dw	<390	<350
Surrogate - Phenol d5	54 %	44 %
Surrogate - 2-Fluorophenol	62 %	50 %
Surrogate - 2,4,6-Tribromophenol	56 %	56 %
Surrogate - Nitrobenzene - d5	44 %	40 %
Surrogate - 2-Fluorobiphenyl	55 %	48 %
Surrogate - Terphenyl - d14	55 %	47 %
Dilution Factor	1.0	1.0
Prep Date	07.26.99	07.26.99
Analysis Date	07.28.99	07.28.99
Batch ID	0726F	0726F
Percent Solids	85	93

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LOG NO: S9-14862A
Received: 22 JUL 99
Reported: 20 AUG 99

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112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 151090820

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862A-13	SB-27-1	07-22-99/10:20
14862A-14	SB-27-2	07-22-99/10:25
14862A-15	SB-26-1	07-22-99/10:35
14862A-16	SB-26-2	07-22-99/10:40
14862A-17	SB-25-1	07-22-99/10:50

PARAMETER	14862A-13	14862A-14	14862A-15	14862A-16	14862A-17
TCL Pesticides (8081)					
alpha-BHC, ug/kg dw	<18	<2.0	<10	<2.1	<19
beta-BHC, ug/kg dw	<18	<2.0	<10	<2.1	<19
delta-BHC, ug/kg dw	<18	<2.0	<10	<2.1	<19
gamma-BHC (Lindane), ug/kg dw	<18	<2.0	<10	<2.1	<19
Heptachlor, ug/kg dw	<18	<2.0	<10	<2.1	<19
Aldrin, ug/kg dw	<18	<2.0	<10	<2.1	<19
Heptachlor epoxide, ug/kg dw	<18	<2.0	<10	<2.1	<19
Endosulfan I, ug/kg dw	<18	<2.0	<10	<2.1	<19
Dieldrin, ug/kg dw	43	<4.0	26X	<4.1	38X
4,4'-DDE, ug/kg dw	<36	<4.0	<20	<4.1	<37
Endrin, ug/kg dw	<36	<4.0	<20	<4.1	<37
Endrin aldehyde, ug/kg dw	<36	<4.0	<20	<4.1	<37
Endosulfan II, ug/kg dw	<36	<4.0	<20	<4.1	<37
4,4'-DDD, ug/kg dw	<36	<4.0	<20	<4.1	<37
Endosulfan sulfate, ug/kg dw	<36	<4.0	<20	<4.1	<37
4,4'-DDT, ug/kg dw	<36	<4.0	<20	<4.1	<37
Endrin ketone, ug/kg dw	42X	<4.0	22X	<4.1	32
Methoxychlor, ug/kg dw	<180	<20	140X	<21	<190

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Code: 151090820

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862A-13	SB-27-1	07-22-99/10:20
14862A-14	SB-27-2	07-22-99/10:25
14862A-15	SB-26-1	07-22-99/10:35
14862A-16	SB-26-2	07-22-99/10:40
14862A-17	SB-25-1	07-22-99/10:50

PARAMETER	14862A-13	14862A-14	14862A-15	14862A-16	14862A-17
alpha-Chlordane, ug/kg dw	<18	<2.0	<10	<2.1	<19
gamma-Chlordane, ug/kg dw	<18	<2.0	<10	<2.1	<19
Toxaphene, ug/kg dw	<1800	<200	<1000	<210	<1900
Surrogate - DCB	0 %D	138 %	132 %	55 %	0 %D
Surrogate - 2,4,5,6-Tetrachloro-m-xylene (TCMX)	0 %D	48 %	54 %	46 %	0 %D
Dilution Factor	10.0	1.0	5.0	1.0	10.0
Prep Date	07.27.99	07.30.99	07.27.99	07.27.99	07.27.99
Analysis Date	08.11.99	08.04.99	08.06.99	07.29.99	08.17.99
Batch ID	0727N	1K0804	0727N	0727N	0727N

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862A-13	SB-27-1	07-22-99/10:20
14862A-14	SB-27-2	07-22-99/10:25
14862A-15	SB-26-1	07-22-99/10:35
14862A-16	SB-26-2	07-22-99/10:40
14862A-17	SB-25-1	07-22-99/10:50

PARAMETER	14862A-13	14862A-14	14862A-15	14862A-16	14862A-17
PCB's (8082)					
Aroclor-1016, ug/kg dw	<360	<40	<200	<41	<370
Aroclor-1221, ug/kg dw	<720	<80	<420	<83	<750
Aroclor-1232, ug/kg dw	<360	<40	<200	<41	<370
Aroclor-1242, ug/kg dw	<360	<40	<200	<41	<370
Aroclor-1248, ug/kg dw	<360	<40	<200	<41	<370
Aroclor-1254, ug/kg dw	<360	<40	<200	<41	<370
Aroclor-1260, ug/kg dw	<360	<40	<200	<41	<370
Surrogate - TCX	0 %D	48 %	54 %	46 %	0 %D
Dilution Factor	10.0	1.0	5.0	1.0	10.0
Prep Date	07.27.99	07.30.99	07.27.99	07.27.99	07.27.99
Analysis Date	08.11.99	08.04.99	08.06.99	07.29.99	08.17.99
Batch ID	0727N	0727N	0727N	0727N	0727N
Percent Solids	92	83	80	80	89

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Code: 151090820

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862A-18	SB-25-2	07-22-99/10:55
14862A-19	SB-22-1	07-22-99/11:30
14862A-20	SB-22-2	07-22-99/11:35

PARAMETER	14862A-18	14862A-19	14862A-20
TCL Pesticides (8081)			
alpha-BHC, ug/kg dw	<2.0	<2.0	<2.1
beta-BHC, ug/kg dw	<2.0	<2.0	<2.1
delta-BHC, ug/kg dw	<2.0	<2.0	<2.1
gamma-BHC (Lindane), ug/kg dw	<2.0	<2.0	<2.1
Heptachlor, ug/kg dw	<2.0	<2.0	<2.1
Aldrin, ug/kg dw	<2.0	<2.0	<2.1
Heptachlor epoxide, ug/kg dw	<2.0	<2.0	<2.1
Endosulfan I, ug/kg dw	<2.0	<2.0	<2.1
Dieldrin, ug/kg dw	<4.0	<4.0	<4.0
4,4'-DDE, ug/kg dw	<4.0	<4.0	<4.0
Endrin, ug/kg dw	<4.0	<4.0	<4.0
Endrin aldehyde, ug/kg dw	<4.0	<4.0	<4.0
Endosulfan II, ug/kg dw	<4.0	<4.0	<4.0
4,4'-DDD, ug/kg dw	<4.0	<4.0	<4.0
Endosulfan sulfate, ug/kg dw	<4.0	<4.0	<4.0
4,4'-DDT, ug/kg dw	<4.0	<4.0	<4.0
Endrin ketone, ug/kg dw	<4.0	<4.0	<4.0
Methoxychlor, ug/kg dw	<20	<20	<21
alpha-Chlordane, ug/kg dw	<2.0	<2.0	<2.1
gamma-Chlordane, ug/kg dw	<2.0	<2.0	<2.1

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LOG NO: S9-14862A
Received: 22 JUL 99
Reported: 20 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 151090820

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14862A-18	SB-25-2	07-22-99/10:55
14862A-19	SB-22-1	07-22-99/11:30
14862A-20	SB-22-2	07-22-99/11:35

PARAMETER	14862A-18	14862A-19	14862A-20
Toxaphene, ug/kg dw	<200	<200	<210
Surrogate - DCB	56 %	69 %	57 %
Surrogate - 2,4,5,6-Tetrachloro-m-xylene (TCMX)	50 %	54 %	49 %
Dilution Factor	1.0	1.0	1.0
Prep Date	07.27.99	07.27.99	07.27.99
Analysis Date	07.29.99	07.29.99	07.29.99
Batch ID	0727N	0727N	0727N
PCB's (8082)			
Aroclor-1016, ug/kg dw	<40	<40	<40
Aroclor-1221, ug/kg dw	<80	<81	<81
Aroclor-1232, ug/kg dw	<40	<40	<40
Aroclor-1242, ug/kg dw	<40	<40	<40
Aroclor-1248, ug/kg dw	<40	<40	<40
Aroclor-1254, ug/kg dw	<40	<40	<40
Aroclor-1260, ug/kg dw	<40	<40	<40
Surrogate - TCX	50 %	54 %	49 %
Dilution Factor	1.0	1.0	1.0
Prep Date	07.27.99	07.27.99	07.27.99
Analysis Date	07.29.99	07.29.99	07.29.99
Batch ID	0727N	0727N	0727N
Percent Solids	83	82	82

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2/10/00

Serial Number 11564

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

☐ 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (904) 878-3994 — Fax: (904) 878-9504
☐ 414 SW 12th Avenue, Deerfield Beach, FL 33442 — Phone: (954) 421-7400 — Fax: (954) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049
☐ 100 Alpha Drive, Suite 110, Destrehan, LA 70047 — Phone: (504) 764-1100 — Fax: (504) 725-1163

PROJECT REFERENCE	PROJECT NO.	P.O NUMBER
	12000-9-3411	

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
	Pat Kelly / Kim Booth	235-3588	234-1749

CLIENT NAME	CLIENT PROJECT MANAGER
L&W	Pat Kelly

CLIENT ADDRESS (CITY, STATE, ZIP): Savannah, Ga. 31405

MATRIX TYPE: AQUEOUS (WATER) / SOLID OR SEMISOLID / AIR / NONAQUEOUS LIQUID (oil, solvent, etc.)

REQUIRED ANALYSES: 8260 Encore Number 6270

PAGE 1 OF 2

☒ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID	NUMBER OF CONTAINERS SUBMITTED			REMARKS
7-22	8:00		SB-18-1	X				3	1	1	
7-22	8:20		SB-18-2	X				3	1	1	
7-22	8:30		SB-28-1	X				3	1	1	
7-22	9:00		SB-28-2	X				3	1	1	
7-22	9:15		SB-29-1					3	1	1	
7-22	9:25		SB-29-2					3	1	1	
7-22	9:30		SB-19-1					3	1	1	
7-22	9:40		SB-19-2					3	1	1	
7-22	9:50		SB-20-1					3	1	1	
7-22	9:55		SB-20-2					3	1	1	
7-22	10:05		SB-21-1					3	1	1	
7-22	10:05		SB-21-2					3	1	1	
7-22	10:20		SB-27-1					3	1	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
J. Campbell	7/20/99		Kim Booth	7-22	1:15			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
F. Swafford	7/22/99	1:15	☑ YES ☐ NO		S914862	

F-172

ORIGINAL

Serial Number 1[illegible]643

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

☐ 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (904) 878-3994 — Fax: (904) 878-9504
☐ 414 SW 12th Avenue, Deerfield Beach, FL 33442 — Phone: (954) 421-7400 — Fax: (954) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049
☐ 100 Alpha Drive, Suite 110, Destrehan, LA 70047 — Phone: (504) 764-1100 — Fax: (504) 725-1163

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
	12000-9-3411	

PAGE 2 OF 2

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE
	Pat Kelly/Kim Booth	238-3888
		FAX 234-1749

CLIENT NAME	CLIENT PROJECT MANAGER
LAW	Pat Kelly

CLIENT ADDRESS (CITY, STATE, ZIP)
1000 Business Center Dr., Suite 40, Savannah, Ga 31405

MATRIX TYPE: AQUEOUS (WATER) / SOLID OR SEMISOLID / AIR / NONAQUEOUS LIQUID (oil, solvent, etc.)

REQUIRED ANALYSES: 8260 Encore; 8260 Aqueous; 8270

☒ STANDARD REPORT DELIVERY
☐ EXPEDITED REPORT DELIVERY (surcharge)
Date Due

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (oil, solvent, etc.)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
7-22	10:25		SB-27-2		X			3 1 1	
7-22	10:35		SB-26-1		X			3 1 1	
7-22	10:40		SB-26-2		X			3 1 1	
			~~SB-26-KB~~ KB		X			3 1 1	
7-22	10:50		SB-25-1		X			3 1 1	
7-22	10:55		SB-25-2		X			3 1 1	
7-22	11:30		SB-22-1		X			3 1 1	
7-22	11:35		SB-22-2		X			3 1 1	
			~~Duplicate~~ KB						
	0:0		Duplicate		X			3 1 1	
	0:0		Duplicate		X			3 1 1	

AHD
TCB/Pest.
SOS1/5082
SB-25-1
SB-25-2
SB-26-1
SB-27-2
SB-22-2
TPH
AHD Pat Kelly 1/26/99

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY (SIGNATURE)	DATE	TIME
L. Campbell	7/20/99		Kim Booth	7-22	1:15			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
F. Swafford	7/22/99	1:15	☒ YES ☐ NO		S914862	

E-173

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LOG NO: S9-14993
Received: 29 JUL 99
Reported: 11 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 133290811

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14993-1	HMW-14-1	07-28-99/09:30
14993-2	HMW-14-2	07-28-99/09:40
14993-3	HMW-15-1	07-28-99/11:15
14993-4	HMW-15-2	07-28-99/11:30
14993-5	HMW-17-1	07-28-99/13:45

PARAMETER	14993-1	14993-2	14993-3	14993-4	14993-5
Volatile Organic Compounds (8260)					
Acetone, ug/kg dw	<57	95	75	170	<60
Acetonitrile, ug/kg dw	<230	<240	<280	<250	<240
Acrolein (Propenal), ug/kg dw	<110	<120	<140	<120	<120
Acrylonitrile, ug/kg dw	<110	<120	<140	<120	<120
Benzene, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Bromodichloromethane, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Bromoform, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Bromomethane (Methyl Bromide), ug/kg dw	<11	<12	<14	<12	<12
2-Butanone (Methyl ethyl ketone), ug/kg dw	<29	<30	<35	<31	<30
Carbon disulfide, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Carbon Tetrachloride, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Chlorobenzene, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Chloroethane, ug/kg dw	<11	<12	<14	<12	<12
Chloroform, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Chloromethane (Methyl Chloride), ug/kg dw	<11	<12	<14	<12	<12

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Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 133290811

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14993-1	HMW-14-1	07-28-99/09:30
14993-2	HMW-14-2	07-28-99/09:40
14993-3	HMW-15-1	07-28-99/11:15
14993-4	HMW-15-2	07-28-99/11:30
14993-5	HMW-17-1	07-28-99/13:45

PARAMETER	14993-1	14993-2	14993-3	14993-4	14993-5
Chloroprene, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
3-Chloropropene (Allylchloride), ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Dibromochloromethane, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
1,2-Dibromo-3-chloropropane , ug/kg dw	<11	<12	<14	<12	<12
1,2-Dibromoethane (EDB) , ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Dibromomethane (Methylene bromide), ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
trans-1,4-Dichloro-2-butene , ug/kg dw	<11	<12	<14	<12	<12
Dichlorodifluoromethane, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
1,1-Dichloroethane, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
1,2-Dichloroethane, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
1,1-Dichloroethene, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
trans-1,2-Dichloroethene, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
1,2-Dichloropropane, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
cis-1,3-Dichloropropene, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
trans-1,3-Dichloropropene, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0

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LOG NO: S9-14993
Received: 29 JUL 99
Reported: 11 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 133290811

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14993-1	HMW-14-1	07-28-99/09:30
14993-2	HMW-14-2	07-28-99/09:40
14993-3	HMW-15-1	07-28-99/11:15
14993-4	HMW-15-2	07-28-99/11:30
14993-5	HMW-17-1	07-28-99/13:45

PARAMETER	14993-1	14993-2	14993-3	14993-4	14993-5
Ethylbenzene, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Ethyl methacrylate, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
2-Hexanone, ug/kg dw	<29	<30	<35	<31	<30
Iodomethane (Methyl iodide), ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Isobutanol (Isobutyl alcohol), ug/kg dw	<230	<240	<280	<250	<240
Methacrylonitrile, ug/kg dw	<110	<120	<140	<120	<120
Methylene chloride (Dichloromethane), ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Methyl methacrylate, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
4-Methyl-2-pentanone (MIBK), ug/kg dw	<29	<30	<35	<31	<30
Pentachloroethane, ug/kg dw	<29	<30	<35	<31	<30
Propionitrile, ug/kg dw	<110	<120	<140	<120	<120
Styrene, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
1,1,1,2-Tetrachloroethane, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0

2/10/00

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LOG NO: S9-14993
Received: 29 JUL 99
Reported: 11 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 133290811

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14993-1	HMW-14-1	07-28-99/09:30
14993-2	HMW-14-2	07-28-99/09:40
14993-3	HMW-15-1	07-28-99/11:15
14993-4	HMW-15-2	07-28-99/11:30
14993-5	HMW-17-1	07-28-99/13:45

PARAMETER	14993-1	14993-2	14993-3	14993-4	14993-5
Tetrachloroethene, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Toluene, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
1,1,1-Trichloroethane, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
1,1,2-Trichloroethane, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Trichloroethene, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Trichlorofluoromethane, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
1,2,3-Trichloropropane, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Vinyl acetate, ug/kg dw	<11	<12	<14	<12	<12
Vinyl chloride, ug/kg dw	<11	<12	<14	<12	<12
Xylenes (total), ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
2-Chlorotoluene, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
cis-1,2-Dichloroethene, ug/kg dw	<5.7	<6.0	<7.0	<6.2	<6.0
Surrogate - Toluene-d8	100 %	100 %	91 %	97 %	102 %
Surrogate - 4-Bromofluorobenzene	74 %	82 %	97 %	87 %	73 %
Surrogate - Dibromofluoromethane	102 %	102 %	104 %	103 %	103 %
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Analysis Date	08.03.99	08.03.99	08.03.99	08.03.99	08.03.99
Batch ID	1H0803	1H0803	1H0803	1H0803	1H0803

gaw
2/10/00

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LOG NO: S9-14993
Received: 29 JUL 99
Reported: 11 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 133290811

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14993-1	HMW-14-1	07-28-99/09:30
14993-2	HMW-14-2	07-28-99/09:40
14993-3	HMW-15-1	07-28-99/11:15
14993-4	HMW-15-2	07-28-99/11:30
14993-5	HMW-17-1	07-28-99/13:45

PARAMETER	14993-1	14993-2	14993-3	14993-4	14993-5
Acids and Base Neutrals (8270-APP9)					
Acenaphthene, ug/kg dw	<360	<360	<380	<360	<360
Acenaphthylene, ug/kg dw	<360	470	<380	<360	<360
Acetophenone, ug/kg dw	<360	<360	<380	<360	<360
2-Acetylaminofluorene, ug/kg dw	<360	<360	<380	<360	<360
4-Aminobiphenyl, ug/kg dw	<360	<360	<380	<360	<360
Aniline, ug/kg dw	<360	<360	<380	<360	<360
Anthracene, ug/kg dw	<360	<360	<380	<360	<360
Aramite (total), ug/kg dw	<360	<360	<380	<360	<360
Benzo(a)anthracene, ug/kg dw	<360	1800	<380	<360	<360
Benzo(b)fluoranthene, ug/kg dw	<360	1600	<380	<360	<360
Benzo(k)fluoranthene, ug/kg dw	<360	2000	<380	<360	<360
Benzo(g,h,i)perylene, ug/kg dw	<360	1200	<380	<360	<360
Benzo(a)pyrene, ug/kg dw	<360	1900	<380	<360	<360
Benzyl alcohol, ug/kg dw	<360	<360	<380	<360	<360
bis(2-Chloroethoxy)methane, ug/kg dw	<360	<360	<380	<360	<360
bis(2-Chloroethyl)ether, ug/kg dw	<360	<360	<380	<360	<360
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	<360	<360	<380	<360	<360

2/10/00

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165 • www.savlabs.com

LOG NO: S9-14993
Received: 29 JUL 99
Reported: 11 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 133290811

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14993-1	HMW-14-1	07-28-99/09:30
14993-2	HMW-14-2	07-28-99/09:40
14993-3	HMW-15-1	07-28-99/11:15
14993-4	HMW-15-2	07-28-99/11:30
14993-5	HMW-17-1	07-28-99/13:45

PARAMETER	14993-1	14993-2	14993-3	14993-4	14993-5
bis(2-Ethylhexyl)phthalate, ug/kg dw	<360	<360	<380	<360	<360
4-Bromophenylphenyl ether, ug/kg dw	<360	<360	<380	<360	<360
Butylbenzylphthalate, ug/kg dw	<360	<360	<380	<360	<360
4-Chloroaniline (p-Chloroaniline), ug/kg dw	<720	<730	<760	<720	<720
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	<360	<360	<380	<360	<360
2-Chloronaphthalene, ug/kg dw	<360	<360	<380	<360	<360
2-Chlorophenol, ug/kg dw	<360	<360	<380	<360	<360
4-Chlorophenylphenyl ether, ug/kg dw	<360	<360	<380	<360	<360
Chrysene, ug/kg dw	<360	1900	<380	<360	<360
Cresol, m & p, ug/kg dw	<360	<360	<380	<360	<360
Cresol (ortho), ug/kg dw	<360	<360	<380	<360	<360
Diallate (total), ug/kg dw	<360	<360	<380	<360	<360
Dibenzo(a,h)anthracene, ug/kg dw	<360	430	<380	<360	<360

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14993-2	HMW-14-2	07-28-99/09:40
14993-3	HMW-15-1	07-28-99/11:15
14993-4	HMW-15-2	07-28-99/11:30
14993-5	HMW-17-1	07-28-99/13:45

PARAMETER	14993-1	14993-2	14993-3	14993-4	14993-5
Dibenzofuran, ug/kg dw	<360	<360	<380	<360	<360
Di-n-butylphthalate, ug/kg dw	<360	<360	<380	<360	<360
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	<360	<360	<380	<360	<360
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	<360	<360	<380	<360	<360
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	<360	<360	<380	<360	<360
3,3'-Dichlorobenzidine, ug/kg dw	<720	<730	<760	<720	<720
2,4-Dichlorophenol, ug/kg dw	<360	<360	<380	<360	<360
2,6-Dichlorophenol, ug/kg dw	<360	<360	<380	<360	<360
Diethylphthalate, ug/kg dw	<360	<360	<380	<360	<360
p-(Dimethylamino)azobenzene , ug/kg dw	<360	<360	<380	<360	<360
7,12-Dimethylbenz(a)anthrac ene, ug/kg dw	<360	<360	<380	<360	<360

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14993-3	HMW-15-1	07-28-99/11:15
14993-4	HMW-15-2	07-28-99/11:30
14993-5	HMW-17-1	07-28-99/13:45

PARAMETER	14993-1	14993-2	14993-3	14993-4	14993-5
3,3'-Dimethylbenzidine, ug/kg dw	<1900	<1900	<2000	<1900	<1800
alpha,alpha-Dimethylpheneth ylamine, ug/kg dw	<73000	<74000	<77000	<73000	<72000
2,4-Dimethylphenol, ug/kg dw	<360	<360	<380	<360	<360
Dimethylphthalate, ug/kg dw	<360	<360	<380	<360	<360
m-Dinitrobenzene , ug/kg dw	<360	<360	<380	<360	<360
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	<1900	<1900	<2000	<1900	<1800
2,4-Dinitrophenol, ug/kg dw	<1900	<1900	<2000	<1900	<1800
2,4-Dinitrotoluene, ug/kg dw	<360	<360	<380	<360	<360
2,6-Dinitrotoluene, ug/kg dw	<360	<360	<380	<360	<360
Dinoseb (2-sec-Butyl-4,6-dinitrophen ol), ug/kg dw	<360	<360	<380	<360	<360
Di-n-octylphthalate, ug/kg dw	<360	<360	<380	<360	<360
1,4-Dioxane, ug/kg dw	<360	<360	<380	<360	<360
Ethyl methanesulfonate, ug/kg dw	<360	<360	<380	<360	<360
Fluoranthene, ug/kg dw	<360	2400	<380	<360	<360

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14993-4	HMW-15-2	07-28-99/11:30
14993-5	HMW-17-1	07-28-99/13:45

PARAMETER	14993-1	14993-2	14993-3	14993-4	14993-5
Fluorene, ug/kg dw	<360	<360	<380	<360	<360
Hexachlorobenzene, ug/kg dw	<360	<360	<380	<360	<360
Hexachlorobutadiene, ug/kg dw	<360	<360	<380	<360	<360
Hexachlorocyclopentadiene, ug/kg dw	<360	<360	<380	<360	<360
Hexachloroethane, ug/kg dw	<360	<360	<380	<360	<360
Hexachlorophene, ug/kg dw	<190000	<190000	<200000	<190000	<180000
Hexachloropropene, ug/kg dw	<360	<360	<380	<360	<360
Indeno(1,2,3-cd)pyrene, ug/kg dw	<360	1200	<380	<360	<360
Isophorone, ug/kg dw	<360	<360	<380	<360	<360
Isosafrole, ug/kg dw	<360	<360	<380	<360	<360
Methapyrilene, ug/kg dw	<73000	<74000	<77000	<73000	<72000
3-Methylcholanthrene, ug/kg dw	<360	<360	<380	<360	<360
Methyl methanesulfonate, ug/kg dw	<360	<360	<380	<360	<360
2-Methylnaphthalene, ug/kg dw	<360	<360	<380	<360	<360
Naphthalene, ug/kg dw	<360	<360	<380	<360	<360
1,4-Naphthoquinone, ug/kg dw	<360	<360	<380	<360	<360
1-Naphthylamine, ug/kg dw	<360	<360	<380	<360	<360
2-Naphthylamine, ug/kg dw	<360	<360	<380	<360	<360

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14993-3	HMW-15-1	07-28-99/11:15
14993-4	HMW-15-2	07-28-99/11:30
14993-5	HMW-17-1	07-28-99/13:45

PARAMETER	14993-1	14993-2	14993-3	14993-4	14993-5
2-Nitroaniline (o-Nitroaniline), ug/kg dw	<1900	<1900	<2000	<1900	<1800
3-Nitroaniline (m-Nitroaniline), ug/kg dw	<1900	<1900	<2000	<1900	<1800
4-Nitroaniline (p-Nitroaniline), ug/kg dw	<1900	<1900	<2000	<1900	<1800
Nitrobenzene, ug/kg dw	<360	<360	<380	<360	<360
2-Nitrophenol (o-Nitrophenol), ug/kg dw	<360	<360	<380	<360	<360
4-Nitrophenol (p-Nitrophenol), ug/kg dw	<1900	<1900	<2000	<1900	<1800
4-Nitroquinoline 1-oxide, ug/kg dw	<3600	<3600	<3800	<3600	<3600
N-Nitrosodi-n-butylamine, ug/kg dw	<360	<360	<380	<360	<360
N-Nitrosodiethylamine, ug/kg dw	<360	<360	<380	<360	<360
N-Nitrosodimethylamine, ug/kg dw	<360	<360	<380	<360	<360
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	<360	<360	<380	<360	<360
n-Nitrosodi-n-propylamine, ug/kg dw	<360	<360	<380	<360	<360

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14993-2	HMW-14-2	07-28-99/09:40
14993-3	HMW-15-1	07-28-99/11:15
14993-4	HMW-15-2	07-28-99/11:30
14993-5	HMW-17-1	07-28-99/13:45

PARAMETER	14993-1	14993-2	14993-3	14993-4	14993-5
N-Nitrosomethylethylamine, ug/kg dw	<360	<360	<380	<360	<360
N-Nitrosomorpholine, ug/kg dw	<360	<360	<380	<360	<360
N-Nitrosopiperidine, ug/kg dw	<360	<360	<380	<360	<360
N-Nitrosopyrrolidine, ug/kg dw	<360	<360	<380	<360	<360
5-Nitro-o-toluidine, ug/kg dw	<360	<360	<380	<360	<360
Pentachlorobenzene, ug/kg dw	<360	<360	<380	<360	<360
Pentachloronitrobenzene, ug/kg dw	<360	<360	<380	<360	<360
Pentachlorophenol, ug/kg dw	<1900	<1900	<2000	<1900	<1800
Phenacetin, ug/kg dw	<360	<360	<380	<360	<360
Phenanthrene, ug/kg dw	<360	<360	<380	<360	<360
Phenol, ug/kg dw	<360	<360	<380	<360	<360
1,4-Phenylenediamene (p-Phenylenediamene), ug/kg dw	<1900	<1900	<2000	<1900	<1800
2-Picoline, ug/kg dw	<360	<360	<380	<360	<360
Pronamide, ug/kg dw	<360	<360	<380	<360	<360
Pyrene, ug/kg dw	<360	2000	<380	<360	<360
Pyridine, ug/kg dw	<360	<360	<380	<360	<360

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14993-2	HMW-14-2	07-28-99/09:40
14993-3	HMW-15-1	07-28-99/11:15
14993-4	HMW-15-2	07-28-99/11:30
14993-5	HMW-17-1	07-28-99/13:45

PARAMETER	14993-1	14993-2	14993-3	14993-4	14993-5
Safrole, ug/kg dw	<360	<360	<380	<360	<360
1,2,4,5-Tetrachlorobenzene, ug/kg dw	<360	<360	<380	<360	<360
2,3,4,6-Tetrachlorophenol, ug/kg dw	<360	<360	<380	<360	<360
o-Toluidine, ug/kg dw	<360	<360	<380	<360	<360
1,2,4-Trichlorobenzene, ug/kg dw	<360	<360	<380	<360	<360
2,4,5-Trichlorophenol, ug/kg dw	<360	<360	<380	<360	<360
2,4,6-Trichlorophenol, ug/kg dw	<360	<360	<380	<360	<360
O,O,O-Triethyl phosphorothioate, ug/kg dw	<360	<360	<380	<360	<360
1,3,5-Trinitrobenzene, ug/kg dw	<360	<360	<380	<360	<360
Benzidine, ug/kg dw	<3000	<3000	<3100	<3000	<2900
Benzoic acid, ug/kg dw	<1900	<1900	<2000	<1900	<1800
Dimethoate, ug/kg dw	<360	<360	<380	<360	<360
p-Benzoquinone, ug/kg dw	<360	<360	<380	<360	<360
Surrogate - Phenol d5	64 %	43 %	39 %	56 %	47 %
Surrogate - 2-Fluorophenol	69 %	49 %	45 %	61 %	56 %
Surrogate - 2,4,6-Tribromophenol	61 %	43 %	42 %	58 %	53 %

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14993-3	HMW-15-1	07-28-99/11:15
14993-4	HMW-15-2	07-28-99/11:30
14993-5	HMW-17-1	07-28-99/13:45

PARAMETER	14993-1	14993-2	14993-3	14993-4	14993-5
Surrogate - Nitrobenzene - d5	52 %	40 %	33 %	52 %	42 %
Surrogate - 2-Fluorobiphenyl	67 %	50 %	44 %	61 %	51 %
Surrogate - Terphenyl - d14	67 %	46 %	42 %	56 %	56 %
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Prep Date	07.30.99	07.30.99	07.28.99	07.28.99	07.28.99
Analysis Date	08.02.99	08.02.99	08.02.99	08.02.99	08.02.99
Batch ID	0730A	0730A	0728B	0728B	0728B
Percent Solids	91	90	87	91	92

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14993-6	HMW-17-2	07-28-99/13:55

PARAMETER	14993-6
Volatile Organic Compounds (8260)	
Acetone, ug/kg dw	95
Acetonitrile, ug/kg dw	<250
Acrolein (Propenal), ug/kg dw	<130
Acrylonitrile, ug/kg dw	<130
Benzene, ug/kg dw	<6.3
Bromodichloromethane, ug/kg dw	<6.3
Bromoform, ug/kg dw	<6.3
Bromomethane (Methyl Bromide), ug/kg dw	<13
2-Butanone (Methyl ethyl ketone), ug/kg dw	<32
Carbon disulfide, ug/kg dw	<6.3
Carbon Tetrachloride, ug/kg dw	<6.3
Chlorobenzene, ug/kg dw	<6.3
Chloroethane, ug/kg dw	<13
Chloroform, ug/kg dw	<6.3
Chloromethane (Methyl Chloride), ug/kg dw	<13
Chloroprene, ug/kg dw	<6.3
3-Chloropropene (Allylchloride), ug/kg dw	<6.3
Dibromochloromethane, ug/kg dw	<6.3
1,2-Dibromo-3-chloropropane, ug/kg dw	<13
1,2-Dibromoethane (EDB) , ug/kg dw	<6.3
Dibromomethane (Methylene bromide), ug/kg dw	<6.3
trans-1,4-Dichloro-2-butene, ug/kg dw	<13

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14993-6	HMW-17-2	07-28-99/13:55

PARAMETER	14993-6				
Dichlorodifluoromethane, ug/kg dw	<6.3				
1,1-Dichloroethane, ug/kg dw	<6.3				
1,2-Dichloroethane, ug/kg dw	<6.3				
1,1-Dichloroethene, ug/kg dw	<6.3				
trans-1,2-Dichloroethene, ug/kg dw	<6.3				
1,2-Dichloropropane, ug/kg dw	<6.3				
cis-1,3-Dichloropropene, ug/kg dw	<6.3				
trans-1,3-Dichloropropene, ug/kg dw	<6.3				
Ethylbenzene, ug/kg dw	<6.3				
Ethyl methacrylate, ug/kg dw	<6.3				
2-Hexanone, ug/kg dw	<32				
Iodomethane (Methyl iodide), ug/kg dw	<6.3				
Isobutanol (Isobutyl alcohol), ug/kg dw	<250				
Methacrylonitrile, ug/kg dw	<130				
Methylene chloride (Dichloromethane), ug/kg dw	<6.3				
Methyl methacrylate, ug/kg dw	<6.3				
4-Methyl-2-pentanone (MIBK), ug/kg dw	<32				
Pentachloroethane, ug/kg dw	<32				
Propionitrile, ug/kg dw	<130				
Styrene, ug/kg dw	<6.3				
1,1,1,2-Tetrachloroethane, ug/kg dw	<6.3				
1,1,2,2-Tetrachloroethane, ug/kg dw	<6.3				
Tetrachloroethene, ug/kg dw	<6.3				

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Contract No.: 12001-9-3411
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Sampled By: Client
Code: 13329081l

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14993-6	HMW-17-2	07-28-99/13:55

PARAMETER	14993-6				
Toluene, ug/kg dw	<6.3				
1,1,1-Trichloroethane, ug/kg dw	<6.3				
1,1,2-Trichloroethane, ug/kg dw	<6.3				
Trichloroethene, ug/kg dw	<6.3				
Trichlorofluoromethane, ug/kg dw	<6.3				
1,2,3-Trichloropropane, ug/kg dw	<6.3				
Vinyl acetate, ug/kg dw	<13				
Vinyl chloride, ug/kg dw	<13				
Xylenes (total), ug/kg dw	<6.3				
2-Chlorotoluene, ug/kg dw	<6.3				
cis-1,2-Dichloroethene, ug/kg dw	<6.3				
Surrogate - Toluene-d8	97 %				
Surrogate - 4-Bromofluorobenzene	75 %				
Surrogate - Dibromofluoromethane	105 %				
Dilution Factor	1.0				
Analysis Date	08.03.99				
Batch ID	1H0803				

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14993-6	HMW-17-2	07-28-99/13:55

PARAMETER	14993-6				
Acids and Base Neutrals (8270-APP9)					
Acenaphthene, ug/kg dw	<370				
Acenaphthylene, ug/kg dw	<370				
Acetophenone, ug/kg dw	<370				
2-Acetylaminofluorene, ug/kg dw	<370				
4-Aminobiphenyl, ug/kg dw	<370				
Aniline, ug/kg dw	<370				
Anthracene, ug/kg dw	<370				
Aramite (total), ug/kg dw	<370				
Benzo(a)anthracene, ug/kg dw	<370				
Benzo(b)fluoranthene, ug/kg dw	<370				
Benzo(k)fluoranthene, ug/kg dw	<370				
Benzo(g,h,i)perylene, ug/kg dw	<370				
Benzo(a)pyrene, ug/kg dw	<370				
Benzyl alcohol, ug/kg dw	<370				
bis(2-Chloroethoxy)methane, ug/kg dw	<370				
bis(2-Chloroethyl)ether, ug/kg dw	<370				
2,2'-Oxybis(1-chloropropane) [bis(2-Chloroisopropyl)ether], ug/kg dw	<370				
bis(2-Ethylhexyl)phthalate, ug/kg dw	<370				
4-Bromophenylphenyl ether, ug/kg dw	<370				
Butylbenzylphthalate, ug/kg dw	<370				
4-Chloroaniline (p-Chloroaniline), ug/kg dw	<740				

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LOG NO: S9-14993
Received: 29 JUL 99
Reported: 11 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 133290811

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14993-6	HMW-17-2	07-28-99/13:55

PARAMETER	14993-6		
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	<370		
2-Chloronaphthalene, ug/kg dw	<370		
2-Chlorophenol, ug/kg dw	<370		
4-Chlorophenylphenyl ether, ug/kg dw	<370		
Chrysene, ug/kg dw	<370		
Cresol, m & p, ug/kg dw	<370		
Cresol (ortho), ug/kg dw	<370		
Diallate (total), ug/kg dw	<370		
Dibenzo(a,h)anthracene, ug/kg dw	<370		
Dibenzofuran, ug/kg dw	<370		
Di-n-butylphthalate, ug/kg dw	<370		
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	<370		
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	<370		
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	<370		
3,3'-Dichlorobenzidine, ug/kg dw	<740		
2,4-Dichlorophenol, ug/kg dw	<370		
2,6-Dichlorophenol, ug/kg dw	<370		
Diethylphthalate, ug/kg dw	<370		
p-(Dimethylamino)azobenzene, ug/kg dw	<370		
7,12-Dimethylbenz(a)anthracene, ug/kg dw	<370		
3,3'-Dimethylbenzidine, ug/kg dw	<1900		
alpha,alpha-Dimethylphenethylamine, ug/kg dw	<76000		
2,4-Dimethylphenol, ug/kg dw	<370		

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Sampled By: Client
Code: 133290811

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14993-6	HMW-17-2	07-28-99/13:55

PARAMETER	14993-6				
Dimethylphthalate, ug/kg dw	<370				
m-Dinitrobenzene , ug/kg dw	<370				
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	<1900				
2,4-Dinitrophenol, ug/kg dw	<1900				
2,4-Dinitrotoluene, ug/kg dw	<370				
2,6-Dinitrotoluene, ug/kg dw	<370				
Dinoseb (2-sec-Butyl-4,6-dinitrophenol), ug/kg dw	<370				
Di-n-octylphthalate, ug/kg dw	<370				
1,4-Dioxane, ug/kg dw	<370				
Ethyl methanesulfonate, ug/kg dw	<370				
Fluoranthene, ug/kg dw	<370				
Fluorene, ug/kg dw	<370				
Hexachlorobenzene, ug/kg dw	<370				
Hexachlorobutadiene, ug/kg dw	<370				
Hexachlorocyclopentadiene, ug/kg dw	<370				
Hexachloroethane, ug/kg dw	<370				
Hexachlorophene, ug/kg dw	<190000				
Hexachloropropene, ug/kg dw	<370				
Indeno(1,2,3-cd)pyrene, ug/kg dw	<370				
Isophorone, ug/kg dw	<370				
Isosafrole, ug/kg dw	<370				
Methapyrilene, ug/kg dw	<76000				

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14993-6	HMW-17-2	07-28-99/13:55

PARAMETER	14993-6
3-Methylcholanthrene, ug/kg dw	<370
Methyl methanesulfonate, ug/kg dw	<370
2-Methylnaphthalene, ug/kg dw	<370
Naphthalene, ug/kg dw	<370
1,4-Naphthoquinone, ug/kg dw	<370
1-Naphthylamine, ug/kg dw	<370
2-Naphthylamine, ug/kg dw	<370
2-Nitroaniline (o-Nitroaniline), ug/kg dw	<1900
3-Nitroaniline (m-Nitroaniline), ug/kg dw	<1900
4-Nitroaniline (p-Nitroaniline), ug/kg dw	<1900
Nitrobenzene, ug/kg dw	<370
2-Nitrophenol (o-Nitrophenol), ug/kg dw	<370
4-Nitrophenol (p-Nitrophenol), ug/kg dw	<1900
4-Nitroquinoline 1-oxide, ug/kg dw	<3700
N-Nitrosodi-n-butylamine, ug/kg dw	<370
N-Nitrosodiethylamine, ug/kg dw	<370
N-Nitrosodimethylamine, ug/kg dw	<370
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	<370
n-Nitrosodi-n-propylamine, ug/kg dw	<370
N-Nitrosomethylethylamine, ug/kg dw	<370
N-Nitrosomorpholine, ug/kg dw	<370
N-Nitrosopiperidine, ug/kg dw	<370
N-Nitrosopyrrolidine, ug/kg dw	<370

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14993-6	HMW-17-2	07-28-99/13:55

PARAMETER	14993-6				
5-Nitro-o-toluidine, ug/kg dw	<370				
Pentachlorobenzene, ug/kg dw	<370				
Pentachloronitrobenzene, ug/kg dw	<370				
Pentachlorophenol, ug/kg dw	<1900				
Phenacetin, ug/kg dw	<370				
Phenanthrene, ug/kg dw	<370				
Phenol, ug/kg dw	<370				
1,4-Phenylenediamene (p-Phenylenediamene), ug/kg dw	<1900				
2-Picoline, ug/kg dw	<370				
Pronamide, ug/kg dw	<370				
Pyrene, ug/kg dw	<370				
Pyridine, ug/kg dw	<370				
Safrole, ug/kg dw	<370				
1,2,4,5-Tetrachlorobenzene, ug/kg dw	<370				
2,3,4,6-Tetrachlorophenol, ug/kg dw	<370				
o-Toluidine, ug/kg dw	<370				
1,2,4-Trichlorobenzene, ug/kg dw	<370				
2,4,5-Trichlorophenol, ug/kg dw	<370				
2,4,6-Trichlorophenol, ug/kg dw	<370				
O,O,O-Triethyl phosphorothioate, ug/kg dw	<370				
1,3,5-Trinitrobenzene, ug/kg dw	<370				
Benzidine, ug/kg dw	<3000				
Benzoic acid, ug/kg dw	<1900				

2/10/00

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Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 133290811

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
14993-6	HMW-17-2	07-28-99/13:55

PARAMETER	14993-6
Dimethoate, ug/kg dw	<370
p-Benzoquinone, ug/kg dw	<370
Surrogate - Phenol d5	68 %
Surrogate - 2-Fluorophenol	76 %
Surrogate - 2,4,6-Tribromophenol	68 %
Surrogate - Nitrobenzene - d5	58 %
Surrogate - 2-Fluorobiphenyl	68 %
Surrogate - Terphenyl - d14	74 %
Dilution Factor	1.0
Prep Date	07.28.99
Analysis Date	08.02.99
Batch ID	0728B
Percent Solids	88

2/10/00

Serial Number 115642

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

☐ 5102 LaRoche Avenue, Savannah, GA 31404 Phone: (912) 354-7858 Fax: (912) 352-0165
☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 Phone: (904) 878-3994 Fax: (904) 878-9504
☐ 414 SW 12th Avenue, Deerfield Beach, FL 33442 Phone: (954) 421-7400 Fax: (954) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 Phone: (334) 666-6633 Fax: (334) 666-6696
☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 Phone: (813) 885-7427 Fax: (813) 885-7049
☐ 100 Alpha Drive, Suite 110, Destrehan, LA 70047 Phone: (504) 764-1100 Fax: (504) 725-1163

PROJECT REFERENCE	PROJECT NO.	P.O NUMBER
HAAF FTA		

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
GA	PAT KELLEY	770 421-3311	770 421-3486

CLIENT NAME	CLIENT PROJECT MANAGER
LAW	12001-9-3411

CLIENT ADDRESS (CITY, STATE, ZIP)
112 TOWN PARK DR., KENNESAW, GA 30144

MATRIX TYPE: AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (oil, solvent, etc)

REQUIRED ANALYSES: 8260 ENCORE | 8260 2oz GLASS | 8270

PAGE ___ OF ___

☒ STANDARD REPORT DELIVERY ☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (oil, solvent, etc)	8260 ENCORE	8260 2oz GLASS	8270	REMARKS
7/28/99	9:30		HMW-14-1	X				3	1	1	
7/28/99	9:40		HMW-14-2	X				3	1	1	
7/28/99	11:15		HMW-15-1	X				3	1	1	
7/28/99	11:30		HMW-15-2	X				3	1	1	
7/28/99			HMW-17-1	X				3	1	1	analyze per Larry Stewart 7/29/99
7/28/99			HMW-17-2	X				3	1	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY (SIGNATURE)	DATE	TIME
S. Campbell	7/30/99		Patrick Kelley	7/28/99	18:05			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
S. Campbell	7/28/99	6:05	☒ YES ☐ NO		5914993	

F-196

ORIGINAL

Serial Number 1[illegible]642

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

☐ 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (904) 878-3994 — Fax: (904) 878-9504
☐ 414 SW 12th Avenue, Deerfield Beach, FL 33442 — Phone: (954) 421-7400 — Fax: (954) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
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☐ 100 Alpha Drive, Suite 110, Destrehan, LA 70047 — Phone: (504) 764-1100 — Fax: (504) 725-1163

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
HAAF FTA		

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE / FAX
GA	PAT KELLEY	PHONE 770 421-3311 / FAX 770 421-3486

CLIENT NAME	CLIENT PROJECT MANAGER
LAW	12001-9-3411

CLIENT ADDRESS (CITY, STATE, ZIP): 112 TOWN PARK Dr., KENNESAW, GA 30144

PAGE [ ] OF [ ]

☒ STANDARD REPORT DELIVERY
☐ EXPEDITED REPORT DELIVERY (surcharge)
Date Due

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	MATRIX TYPE: AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (oil, solvent, etc)	REQUIRED ANALYSES: 8260 ENHANCE	8260 TCL GLASS	8270	NUMBER OF CONTAINERS SUBMITTED			REMARKS
								None	None	None				
7/28/99	9:30		HMW-14-1	X							3	1	1	
7/28/99	9:40		HMW-14-2	X							3	1	1	
7/28/99	11:15		HMW-15-1	X							3	1	1	
7/28/99	11:30		HMW-15-2	X							3	1	1	
7/28/99			HMW-17-1	X							3	1	1	
7/28/99			HMW-17-2	X							3	1	1	> analyze per Larry Stewart 7/29/99

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
S. Campbell	7/28/99		Patrick Kelley	7/28/99	18:05			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
S. Campbell	7/28/99	6:05	☒ YES ☐ NO		5914993	

F-197

ORIGINAL

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LOG NO: S9-15018
Received: 29 JUL 99
Reported: 11 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 134290811

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
15018-1	HMW-16-1	07-29-99/09:30
15018-2	HMW-16-2	07-29-99/09:45

PARAMETER	15018-1	15018-2
Volatile Organic Compounds (8260)		
Acetone, ug/kg dw	170	<65
Acetonitrile, ug/kg dw	<250	<260
Acrolein (Propenal), ug/kg dw	<120	<130
Acrylonitrile, ug/kg dw	<120	<130
Benzene, ug/kg dw	<6.2	<6.5
Bromodichloromethane, ug/kg dw	<6.2	<6.5
Bromoform, ug/kg dw	<6.2	<6.5
Bromomethane (Methyl Bromide), ug/kg dw	<12	<13
2-Butanone (Methyl ethyl ketone), ug/kg dw	<31	<33
Carbon disulfide, ug/kg dw	<6.2	<6.5
Carbon Tetrachloride, ug/kg dw	<6.2	<6.5
Chlorobenzene, ug/kg dw	<6.2	<6.5
Chloroethane, ug/kg dw	<12	<13
Chloroform, ug/kg dw	<6.2	<6.5
Chloromethane (Methyl Chloride), ug/kg dw	<12	<13
Chloroprene, ug/kg dw	<6.2	<6.5
3-Chloropropene (Allylchloride), ug/kg dw	<6.2	<6.5
Dibromochloromethane, ug/kg dw	<6.2	<6.5
1,2-Dibromo-3-chloropropane, ug/kg dw	<12	<13
1,2-Dibromoethane (EDB) , ug/kg dw	<6.2	<6.5
Dibromomethane (Methylene bromide), ug/kg dw	<6.2	<6.5

2/10/00

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
15018-1	HMW-16-1	07-29-99/09:30
15018-2	HMW-16-2	07-29-99/09:45

PARAMETER	15018-1	15018-2
trans-1,4-Dichloro-2-butene, ug/kg dw	<12	<13
Dichlorodifluoromethane, ug/kg dw	<6.2	<6.5
1,1-Dichloroethane, ug/kg dw	<6.2	<6.5
1,2-Dichloroethane, ug/kg dw	<6.2	<6.5
1,1-Dichloroethene, ug/kg dw	<6.2	<6.5
trans-1,2-Dichloroethene, ug/kg dw	<6.2	<6.5
1,2-Dichloropropane, ug/kg dw	<6.2	<6.5
cis-1,3-Dichloropropene, ug/kg dw	<6.2	<6.5
trans-1,3-Dichloropropene, ug/kg dw	<6.2	<6.5
Ethylbenzene, ug/kg dw	<6.2	<6.5
Ethyl methacrylate, ug/kg dw	<6.2	<6.5
2-Hexanone, ug/kg dw	<31	<33
Iodomethane (Methyl iodide), ug/kg dw	<6.2	<6.5
Isobutanol (Isobutyl alcohol), ug/kg dw	<250	<260
Methacrylonitrile, ug/kg dw	<120	<130
Methylene chloride (Dichloromethane), ug/kg dw	<6.2	<6.5
Methyl methacrylate, ug/kg dw	<6.2	<6.5
4-Methyl-2-pentanone (MIBK), ug/kg dw	<31	<33
Pentachloroethane, ug/kg dw	<31	<33
Propionitrile, ug/kg dw	<120	<130
Styrene, ug/kg dw	<6.2	<6.5
1,1,1,2-Tetrachloroethane, ug/kg dw	<6.2	<6.5

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2/10/00

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
15018-1	HMW-16-1	07-29-99/09:30
15018-2	HMW-16-2	07-29-99/09:45

PARAMETER	15018-1	15018-2
1,1,2,2-Tetrachloroethane, ug/kg dw	<6.2	<6.5
Tetrachloroethene, ug/kg dw	<6.2	<6.5
Toluene, ug/kg dw	<6.2	<6.5
1,1,1-Trichloroethane, ug/kg dw	<6.2	<6.5
1,1,2-Trichloroethane, ug/kg dw	<6.2	<6.5
Trichloroethene, ug/kg dw	<6.2	<6.5
Trichlorofluoromethane, ug/kg dw	<6.2	<6.5
1,2,3-Trichloropropane, ug/kg dw	<6.2	<6.5
Vinyl acetate, ug/kg dw	<12	<13
Vinyl chloride, ug/kg dw	<12	<13
Xylenes (total), ug/kg dw	<6.2	<6.5
2-Chlorotoluene, ug/kg dw	<6.2	<6.5
cis-1,2-Dichloroethene, ug/kg dw	<6.2	<6.5
Surrogate - Toluene-d8	94 %	98 %
Surrogate - 4-Bromofluorobenzene	90 %	83 %
Surrogate - Dibromofluoromethane	105 %	108 %
Dilution Factor	1.0	1.0
Analysis Date	08.03.99	08.03.99
Batch ID	1H0803	1H0803

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
15018-1	HMW-16-1	07-29-99/09:30
15018-2	HMW-16-2	07-29-99/09:45

PARAMETER	15018-1	15018-2
Acids and Base Neutrals (8270-APP9)		
Acenaphthene, ug/kg dw	<3500	<790
Acenaphthylene, ug/kg dw	3600	1500
Acetophenone, ug/kg dw	<3500	<790
2-Acetylaminofluorene, ug/kg dw	<3500	<790
4-Aminobiphenyl, ug/kg dw	<3500	<790
Aniline, ug/kg dw	<3500	<790
Anthracene, ug/kg dw	7500	2200
Aramite (total), ug/kg dw	<3500	<790
Benzo(a)anthracene, ug/kg dw	34000	13000
Benzo(b)fluoranthene, ug/kg dw	28000	9100
Benzo(k)fluoranthene, ug/kg dw	27000	13000
Benzo(g,h,i)perylene, ug/kg dw	14000	5700
Benzo(a)pyrene, ug/kg dw	26000	10000
Benzyl alcohol, ug/kg dw	<3500	<790
bis(2-Chloroethoxy)methane, ug/kg dw	<3500	<790
bis(2-Chloroethyl)ether, ug/kg dw	<3500	<790
2,2'-Oxybis(1-chloropropane) [bis(2-Chloroisopropyl)ether], ug/kg dw	<3500	<790
bis(2-Ethylhexyl)phthalate, ug/kg dw	<3500	<790
4-Bromophenylphenyl ether, ug/kg dw	<3500	<790
Butylbenzylphthalate, ug/kg dw	<3500	<790

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LOG NO: S9-15018
Received: 29 JUL 99
Reported: 11 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 134290811

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
15018-1	HMW-16-1	07-29-99/09:30
15018-2	HMW-16-2	07-29-99/09:45

PARAMETER	15018-1	15018-2
4-Chloroaniline (p-Chloroaniline), ug/kg dw	<7000	<1600
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	<3500	<790
2-Chloronaphthalene, ug/kg dw	<3500	<790
2-Chlorophenol, ug/kg dw	<3500	<790
4-Chlorophenylphenyl ether, ug/kg dw	<3500	<790
Chrysene, ug/kg dw	33000	12000
Cresol, m & p, ug/kg dw	<3500	<790
Cresol (ortho), ug/kg dw	<3500	<790
Diallate (total), ug/kg dw	<3500	<790
Dibenzo(a,h)anthracene, ug/kg dw	<3500	860
Dibenzofuran, ug/kg dw	<3500	<790
Di-n-butylphthalate, ug/kg dw	<3500	<790
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	<3500	<790
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	<3500	<790
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	<3500	<790
3,3'-Dichlorobenzidine, ug/kg dw	<7000	<1600
2,4-Dichlorophenol, ug/kg dw	<3500	<790
2,6-Dichlorophenol, ug/kg dw	<3500	<790
Diethylphthalate, ug/kg dw	<3500	<790
p-(Dimethylamino)azobenzene, ug/kg dw	<3500	<790
7,12-Dimethylbenz(a)anthracene, ug/kg dw	<3500	<790
3,3'-Dimethylbenzidine, ug/kg dw	<18000	<4000

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15018-1	HMW-16-1	07-29-99/09:30
15018-2	HMW-16-2	07-29-99/09:45

PARAMETER	15018-1	15018-2
alpha,alpha-Dimethylphenethylamine, ug/kg dw	<710000	<160000
2,4-Dimethylphenol, ug/kg dw	<3500	<790
Dimethylphthalate, ug/kg dw	<3500	<790
m-Dinitrobenzene , ug/kg dw	<3500	<790
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	<18000	<4000
2,4-Dinitrophenol, ug/kg dw	<18000	<4000
2,4-Dinitrotoluene, ug/kg dw	<3500	<790
2,6-Dinitrotoluene, ug/kg dw	<3500	<790
Dinoseb (2-sec-Butyl-4,6-dinitrophenol), ug/kg dw	<3500	<790
Di-n-octylphthalate, ug/kg dw	<3500	<790
1,4-Dioxane, ug/kg dw	<3500	<790
Ethyl methanesulfonate, ug/kg dw	<3500	<790
Fluoranthene, ug/kg dw	72000	24000
Fluorene, ug/kg dw	<3500	<790
Hexachlorobenzene, ug/kg dw	<3500	<790
Hexachlorobutadiene, ug/kg dw	<3500	<790
Hexachlorocyclopentadiene, ug/kg dw	<3500	<790
Hexachloroethane, ug/kg dw	<3500	<790
Hexachlorophene, ug/kg dw	<1800000	<400000
Hexachloropropene, ug/kg dw	<3500	<790
Indeno(1,2,3-cd)pyrene, ug/kg dw	16000	6400

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
15018-1	HMW-16-1	07-29-99/09:30
15018-2	HMW-16-2	07-29-99/09:45

PARAMETER	15018-1	15018-2
Isophorone, ug/kg dw	<3500	<790
Isosafrole, ug/kg dw	<3500	<790
Methapyrilene, ug/kg dw	<710000	<160000
3-Methylcholanthrene, ug/kg dw	<3500	<790
Methyl methanesulfonate, ug/kg dw	<3500	<790
2-Methylnaphthalene, ug/kg dw	<3500	<790
Naphthalene, ug/kg dw	<3500	<790
1,4-Naphthoquinone, ug/kg dw	<3500	<790
1-Naphthylamine, ug/kg dw	<3500	<790
2-Naphthylamine, ug/kg dw	<3500	<790
2-Nitroaniline (o-Nitroaniline), ug/kg dw	<18000	<4000
3-Nitroaniline (m-Nitroaniline), ug/kg dw	<18000	<4000
4-Nitroaniline (p-Nitroaniline), ug/kg dw	<18000	<4000
Nitrobenzene, ug/kg dw	<3500	<790
2-Nitrophenol (o-Nitrophenol), ug/kg dw	<3500	<790
4-Nitrophenol (p-Nitrophenol), ug/kg dw	<18000	<4000
4-Nitroquinoline 1-oxide, ug/kg dw	<35000	<7900
N-Nitrosodi-n-butylamine, ug/kg dw	<3500	<790
N-Nitrosodiethylamine, ug/kg dw	<3500	<790
N-Nitrosodimethylamine, ug/kg dw	<3500	<790
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	<3500	<790
n-Nitrosodi-n-propylamine, ug/kg dw	<3500	<790

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
15018-1	HMW-16-1	07-29-99/09:30
15018-2	HMW-16-2	07-29-99/09:45

PARAMETER	15018-1	15018-2
N-Nitrosomethylethylamine, ug/kg dw	<3500	<790
N-Nitrosomorpholine, ug/kg dw	<3500	<790
N-Nitrosopiperidine, ug/kg dw	<3500	<790
N-Nitrosopyrrolidine, ug/kg dw	<3500	<790
5-Nitro-o-toluidine, ug/kg dw	<3500	<790
Pentachlorobenzene, ug/kg dw	<3500	<790
Pentachloronitrobenzene, ug/kg dw	<3500	<790
Pentachlorophenol, ug/kg dw	<18000	<4000
Phenacetin, ug/kg dw	<3500	<790
Phenanthrene, ug/kg dw	32000	10000
Phenol, ug/kg dw	<3500	<790
1,4-Phenylenediamene (p-Phenylenediamene), ug/kg dw	<18000	<4000
2-Picoline, ug/kg dw	<3500	<790
Pronamide, ug/kg dw	<3500	<790
Pyrene, ug/kg dw	49000	17000
Pyridine, ug/kg dw	<3500	<790
Safrole, ug/kg dw	<3500	<790
1,2,4,5-Tetrachlorobenzene, ug/kg dw	<3500	<790
2,3,4,6-Tetrachlorophenol, ug/kg dw	<3500	<790
o-Toluidine, ug/kg dw	<3500	<790
1,2,4-Trichlorobenzene, ug/kg dw	<3500	<790
2,4,5-Trichlorophenol, ug/kg dw	<3500	<790

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
15018-1	HMW-16-1	07-29-99/09:30
15018-2	HMW-16-2	07-29-99/09:45

PARAMETER	15018-1	15018-2
2,4,6-Trichlorophenol, ug/kg dw	<3500	<790
O,O,O-Triethyl phosphorothioate, ug/kg dw	<3500	<790
1,3,5-Trinitrobenzene, ug/kg dw	<3500	<790
Benzidine, ug/kg dw	<28000	<6400
Benzoic acid, ug/kg dw	<18000	<4000
Dimethoate, ug/kg dw	<3500	<790
p-Benzoquinone, ug/kg dw	<3500	<790
Surrogate - Phenol d5	0 %D	68 %
Surrogate - 2-Fluorophenol	0 %D	75 %
Surrogate - 2,4,6-Tribromophenol	0 %D	62 %
Surrogate - Nitrobenzene - d5	0 %D	60 %
Surrogate - 2-Fluorobiphenyl	0 %D	75 %
Surrogate - Terphenyl - d14	0 %D	70 %
Dilution Factor	10.0	2.0
Prep Date	07.30.99	07.30.99
Analysis Date	08.03.99	08.03.99
Batch ID	0730A	0730A
Percent Solids	94	83

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
15018-3	SB-24-1	07-29-99/11:15
15018-4	SB-24-2	07-29-99/11:20
15018-5	SB-23-1	07-29-99/11:25
15018-6	SB-23-2	07-29-99/11:30

PARAMETER	15018-3	15018-4	15018-5	15018-6
Volatile Organic Compounds (8260)				
Acetone, ug/kg dw	160	140	<64	110
Acetonitrile, ug/kg dw	<440	<350	<260	<300
Acrolein (Propenal), ug/kg dw	<220	<170	<130	<150
Acrylonitrile, ug/kg dw	<220	<170	<130	<150
Benzene, ug/kg dw	<11	<8.7	<6.4	<7.5
Bromodichloromethane, ug/kg dw	<11	<8.7	<6.4	<7.5
Bromoform, ug/kg dw	<11	<8.7	<6.4	<7.5
Bromomethane (Methyl Bromide), ug/kg dw	<22	<17	<13	<15
2-Butanone (Methyl ethyl ketone), ug/kg dw	<56	<43	<32	<38
Carbon disulfide, ug/kg dw	<11	<8.7	<6.4	<7.5
Carbon Tetrachloride, ug/kg dw	<11	<8.7	<6.4	<7.5
Chlorobenzene, ug/kg dw	<11	<8.7	<6.4	<7.5
Chloroethane, ug/kg dw	<22	<17	<13	<15
Chloroform, ug/kg dw	<11	<8.7	<6.4	<7.5
Chloromethane (Methyl Chloride), ug/kg dw	<22	<17	<13	<15
Chloroprene, ug/kg dw	<11	<8.7	<6.4	<7.5
3-Chloropropene (Allylchloride), ug/kg dw	<11	<8.7	<6.4	<7.5
Dibromochloromethane, ug/kg dw	<11	<8.7	<6.4	<7.5
1,2-Dibromo-3-chloropropane, ug/kg dw	<22	<17	<13	<15

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15018-3	SB-24-1	07-29-99/11:15
15018-4	SB-24-2	07-29-99/11:20
15018-5	SB-23-1	07-29-99/11:25
15018-6	SB-23-2	07-29-99/11:30

PARAMETER	15018-3	15018-4	15018-5	15018-6
1,2-Dibromoethane (EDB) , ug/kg dw	<11	<8.7	<6.4	<7.5
Dibromomethane (Methylene bromide), ug/kg dw	<11	<8.7	<6.4	<7.5
trans-1,4-Dichloro-2-butene, ug/kg dw	<22	<17	<13	<15
Dichlorodifluoromethane, ug/kg dw	<11	<8.7	<6.4	<7.5
1,1-Dichloroethane, ug/kg dw	<11	<8.7	<6.4	<7.5
1,2-Dichloroethane, ug/kg dw	<11	<8.7	<6.4	<7.5
1,1-Dichloroethene, ug/kg dw	<11	<8.7	<6.4	<7.5
trans-1,2-Dichloroethene, ug/kg dw	<11	<8.7	<6.4	<7.5
1,2-Dichloropropane, ug/kg dw	<11	<8.7	<6.4	<7.5
cis-1,3-Dichloropropene, ug/kg dw	<11	<8.7	<6.4	<7.5
trans-1,3-Dichloropropene, ug/kg dw	<11	<8.7	<6.4	<7.5
Ethylbenzene, ug/kg dw	<11	<8.7	<6.4	<7.5
Ethyl methacrylate, ug/kg dw	<11	<8.7	<6.4	<7.5
2-Hexanone, ug/kg dw	<56	<43	<32	<38
Iodomethane (Methyl iodide), ug/kg dw	<11	<8.7	<6.4	<7.5
Isobutanol (Isobutyl alcohol), ug/kg dw	<440	<350	<260	<300
Methacrylonitrile, ug/kg dw	<220	<170	<130	<150
Methylene chloride (Dichloromethane), ug/kg dw	<11	<8.7	<6.4	<7.5
Methyl methacrylate, ug/kg dw	<11	<8.7	<6.4	<7.5
4-Methyl-2-pentanone (MIBK), ug/kg dw	<56	<43	<32	<38

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112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 134290811

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
15018-3	SB-24-1	07-29-99/11:15
15018-4	SB-24-2	07-29-99/11:20
15018-5	SB-23-1	07-29-99/11:25
15018-6	SB-23-2	07-29-99/11:30

PARAMETER	15018-3	15018-4	15018-5	15018-6
Pentachloroethane, ug/kg dw	<56	<43	<32	<38
Propionitrile, ug/kg dw	<220	<170	<130	<150
Styrene, ug/kg dw	<11	<8.7	<6.4	<7.5
1,1,1,2-Tetrachloroethane, ug/kg dw	<11	<8.7	<6.4	<7.5
1,1,2,2-Tetrachloroethane, ug/kg dw	<11	<8.7	<6.4	<7.5
Tetrachloroethene, ug/kg dw	<11	<8.7	<6.4	<7.5
Toluene, ug/kg dw	<11	<8.7	<6.4	20
1,1,1-Trichloroethane, ug/kg dw	<11	<8.7	<6.4	<7.5
1,1,2-Trichloroethane, ug/kg dw	<11	<8.7	<6.4	<7.5
Trichloroethene, ug/kg dw	<11	<8.7	<6.4	<7.5
Trichlorofluoromethane, ug/kg dw	<11	<8.7	<6.4	<7.5
1,2,3-Trichloropropane, ug/kg dw	<11	<8.7	<6.4	<7.5
Vinyl acetate, ug/kg dw	<22	<17	<13	<15
Vinyl chloride, ug/kg dw	<22	<17	<13	<15
Xylenes (total), ug/kg dw	<11	<8.7	<6.4	<7.5
2-Chlorotoluene, ug/kg dw	<11	<8.7	<6.4	<7.5
cis-1,2-Dichloroethene, ug/kg dw	<11	<8.7	<6.4	<7.5
Surrogate - Toluene-d8	100 %	93 %	97 %	91 %
Surrogate - 4-Bromofluorobenzene	87 %	91 %	84 %	100 %
Surrogate - Dibromofluoromethane	109 %	101 %	109 %	104 %
Dilution Factor	1.0	1.0	1.0	1.0
Analysis Date	08.04.99	08.04.99	08.04.99	08.04.99
Batch ID	1H0803	1H0803	1H0803	1H0803

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
15018-3	SB-24-1	07-29-99/11:15
15018-4	SB-24-2	07-29-99/11:20
15018-5	SB-23-1	07-29-99/11:25
15018-6	SB-23-2	07-29-99/11:30

PARAMETER	15018-3	15018-4	15018-5	15018-6
Acids and Base Neutrals (8270-APP9)				
Acenaphthene, ug/kg dw	<480	<410	<360	<410
Acenaphthylene, ug/kg dw	<480	<410	<360	<410
Acetophenone, ug/kg dw	<480	<410	<360	<410
2-Acetylaminofluorene, ug/kg dw	<480	<410	<360	<410
4-Aminobiphenyl, ug/kg dw	<480	<410	<360	<410
Aniline, ug/kg dw	<480	<410	<360	<410
Anthracene, ug/kg dw	<480	<410	<360	<410
Aramite (total), ug/kg dw	<480	<410	<360	<410
Benzo(a)anthracene, ug/kg dw	<480	<410	510	<410
Benzo(b)fluoranthene, ug/kg dw	<480	<410	740	<410
Benzo(k)fluoranthene, ug/kg dw	<480	<410	630	<410
Benzo(g,h,i)perylene, ug/kg dw	<480	<410	560	<410
Benzo(a)pyrene, ug/kg dw	<480	<410	750	<410
Benzyl alcohol, ug/kg dw	<480	<410	<360	<410
bis(2-Chloroethoxy)methane, ug/kg dw	<480	<410	<360	<410
bis(2-Chloroethyl)ether, ug/kg dw	<480	<410	<360	<410
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	<480	<410	<360	<410

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15018-5	SB-23-1	07-29-99/11:25
15018-6	SB-23-2	07-29-99/11:30

PARAMETER	15018-3	15018-4	15018-5	15018-6
bis(2-Ethylhexyl)phthalate, ug/kg dw	<480	<410	<360	<410
4-Bromophenylphenyl ether, ug/kg dw	<480	<410	<360	<410
Butylbenzylphthalate, ug/kg dw	<480	<410	<360	<410
4-Chloroaniline (p-Chloroaniline), ug/kg dw	<970	<820	<730	<810
4-Chloro-3-methylphenol (p-Chloro-m-cresol), ug/kg dw	<480	<410	<360	<410
2-Chloronaphthalene, ug/kg dw	<480	<410	<360	<410
2-Chlorophenol, ug/kg dw	<480	<410	<360	<410
4-Chlorophenylphenyl ether, ug/kg dw	<480	<410	<360	<410
Chrysene, ug/kg dw	<480	<410	560	<410
Cresol, m & p, ug/kg dw	<480	<410	<360	<410
Cresol (ortho), ug/kg dw	<480	<410	<360	<410
Diallate (total), ug/kg dw	<480	<410	<360	<410
Dibenzo(a,h)anthracene, ug/kg dw	<480	<410	<360	<410
Dibenzofuran, ug/kg dw	<480	<410	<360	<410
Di-n-butylphthalate, ug/kg dw	<480	<410	<360	<410
1,2-Dichlorobenzene (o-Dichlorobenzene), ug/kg dw	<480	<410	<360	<410
1,3-Dichlorobenzene (m-Dichlorobenzene), ug/kg dw	<480	<410	<360	<410

qaw
2/10/00

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LOG NO: S9-15018
Received: 29 JUL 99
Reported: 11 AUG 99

Dr. Larry Stewart
Law Engineering and Environmental Services/Remediation Group
112 Town Park Drive
Kennesaw, GA 30144

Contract No.: 12001-9-3411
Project: HAAF FTA
Sampled By: Client
Code: 134290811

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
15018-3	SB-24-1	07-29-99/11:15
15018-4	SB-24-2	07-29-99/11:20
15018-5	SB-23-1	07-29-99/11:25
15018-6	SB-23-2	07-29-99/11:30

PARAMETER	15018-3	15018-4	15018-5	15018-6
1,4-Dichlorobenzene (p-Dichlorobenzene), ug/kg dw	<480	<410	<360	<410
3,3'-Dichlorobenzidine, ug/kg dw	<970	<820	<730	<810
2,4-Dichlorophenol, ug/kg dw	<480	<410	<360	<410
2,6-Dichlorophenol, ug/kg dw	<480	<410	<360	<410
Diethylphthalate, ug/kg dw	<480	<410	<360	<410
p-(Dimethylamino)azobenzene, ug/kg dw	<480	<410	<360	<410
7,12-Dimethylbenz(a)anthracene, ug/kg dw	<480	<410	<360	<410
3,3'-Dimethylbenzidine, ug/kg dw	<2500	<2100	<1900	<2100
alpha,alpha-Dimethylphenethylamine, ug/kg dw	<98000	<83000	<74000	<82000
2,4-Dimethylphenol, ug/kg dw	<480	<410	<360	<410
Dimethylphthalate, ug/kg dw	<480	<410	<360	<410
m-Dinitrobenzene , ug/kg dw	<480	<410	<360	<410
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol), ug/kg dw	<2500	<2100	<1900	<2100
2,4-Dinitrophenol, ug/kg dw	<2500	<2100	<1900	<2100
2,4-Dinitrotoluene, ug/kg dw	<480	<410	<360	<410
2,6-Dinitrotoluene, ug/kg dw	<480	<410	<360	<410
Dinoseb (2-sec-Butyl-4,6-dinitrophenol), ug/kg dw	<480	<410	<360	<410

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15018-5	SB-23-1	07-29-99/11:25
15018-6	SB-23-2	07-29-99/11:30

PARAMETER	15018-3	15018-4	15018-5	15018-6
Di-n-octylphthalate, ug/kg dw	<480	<410	<360	<410
1,4-Dioxane, ug/kg dw	<480	<410	<360	<410
Ethyl methanesulfonate, ug/kg dw	<480	<410	<360	<410
Fluoranthene, ug/kg dw	<480	<410	520	<410
Fluorene, ug/kg dw	<480	<410	<360	<410
Hexachlorobenzene, ug/kg dw	<480	<410	<360	<410
Hexachlorobutadiene, ug/kg dw	<480	<410	<360	<410
Hexachlorocyclopentadiene, ug/kg dw	<480	<410	<360	<410
Hexachloroethane, ug/kg dw	<480	<410	<360	<410
Hexachlorophene, ug/kg dw	<250000	<210000	<190000	<210000
Hexachloropropene, ug/kg dw	<480	<410	<360	<410
Indeno(1,2,3-cd)pyrene, ug/kg dw	<480	<410	520	<410
Isophorone, ug/kg dw	<480	<410	<360	<410
Isosafrole, ug/kg dw	<480	<410	<360	<410
Methapyrilene, ug/kg dw	<98000	<83000	<74000	<82000
3-Methylcholanthrene, ug/kg dw	<480	<410	<360	<410
Methyl methanesulfonate, ug/kg dw	<480	<410	<360	<410
2-Methylnaphthalene, ug/kg dw	<480	<410	<360	<410
Naphthalene, ug/kg dw	<480	<410	<360	<410
1,4-Naphthoquinone, ug/kg dw	<480	<410	<360	<410

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15018-5	SB-23-1	07-29-99/11:25
15018-6	SB-23-2	07-29-99/11:30

PARAMETER	15018-3	15018-4	15018-5	15018-6
1-Naphthylamine, ug/kg dw	<480	<410	<360	<410
2-Naphthylamine, ug/kg dw	<480	<410	<360	<410
2-Nitroaniline (o-Nitroaniline), ug/kg dw	<2500	<2100	<1900	<2100
3-Nitroaniline (m-Nitroaniline), ug/kg dw	<2500	<2100	<1900	<2100
4-Nitroaniline (p-Nitroaniline), ug/kg dw	<2500	<2100	<1900	<2100
Nitrobenzene, ug/kg dw	<480	<410	<360	<410
2-Nitrophenol (o-Nitrophenol), ug/kg dw	<480	<410	<360	<410
4-Nitrophenol (p-Nitrophenol), ug/kg dw	<2500	<2100	<1900	<2100
4-Nitroquinoline 1-oxide, ug/kg dw	<4800	<4100	<3600	<4100
N-Nitrosodi-n-butylamine, ug/kg dw	<480	<410	<360	<410
N-Nitrosodiethylamine, ug/kg dw	<480	<410	<360	<410
N-Nitrosodimethylamine, ug/kg dw	<480	<410	<360	<410
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	<480	<410	<360	<410
n-Nitrosodi-n-propylamine, ug/kg dw	<480	<410	<360	<410
N-Nitrosomethylethylamine, ug/kg dw	<480	<410	<360	<410
N-Nitrosomorpholine, ug/kg dw	<480	<410	<360	<410
N-Nitrosopiperidine, ug/kg dw	<480	<410	<360	<410
N-Nitrosopyrrolidine, ug/kg dw	<480	<410	<360	<410
5-Nitro-o-toluidine, ug/kg dw	<480	<410	<360	<410

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Sampled By: Client
Code: 134290811

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15018-4	SB-24-2	07-29-99/11:20
15018-5	SB-23-1	07-29-99/11:25
15018-6	SB-23-2	07-29-99/11:30

PARAMETER	15018-3	15018-4	15018-5	15018-6
Pentachlorobenzene, ug/kg dw	<480	<410	<360	<410
Pentachloronitrobenzene, ug/kg dw	<480	<410	<360	<410
Pentachlorophenol, ug/kg dw	<2500	<2100	<1900	<2100
Phenacetin, ug/kg dw	<480	<410	<360	<410
Phenanthrene, ug/kg dw	<480	<410	<360	<410
Phenol, ug/kg dw	<480	<410	<360	<410
1,4-Phenylenediamene (p-Phenylenediamene), ug/kg dw	<2500	<2100	<1900	<2100
2-Picoline, ug/kg dw	<480	<410	<360	<410
Pronamide, ug/kg dw	<480	<410	<360	<410
Pyrene, ug/kg dw	<480	<410	530	<410
Pyridine, ug/kg dw	<480	<410	<360	<410
Safrole, ug/kg dw	<480	<410	<360	<410
1,2,4,5-Tetrachlorobenzene, ug/kg dw	<480	<410	<360	<410
2,3,4,6-Tetrachlorophenol, ug/kg dw	<480	<410	<360	<410
o-Toluidine, ug/kg dw	<480	<410	<360	<410
1,2,4-Trichlorobenzene, ug/kg dw	<480	<410	<360	<410
2,4,5-Trichlorophenol, ug/kg dw	<480	<410	<360	<410
2,4,6-Trichlorophenol, ug/kg dw	<480	<410	<360	<410
O,O,O-Triethyl phosphorothioate, ug/kg dw	<480	<410	<360	<410

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15018-5	SB-23-1	07-29-99/11:25
15018-6	SB-23-2	07-29-99/11:30

PARAMETER	15018-3	15018-4	15018-5	15018-6
1,3,5-Trinitrobenzene, ug/kg dw	<480	<410	<360	<410
Benzidine, ug/kg dw	<4000	<3400	<3000	<3300
Benzoic acid, ug/kg dw	<2500	<2100	<1900	<2100
Dimethoate, ug/kg dw	<480	<410	<360	<410
p-Benzoquinone, ug/kg dw	<480	<410	<360	<410
Surrogate - Phenol d5	65 %	55 %	46 %	58 %
Surrogate - 2-Fluorophenol	69 %	62 %	51 %	63 %
Surrogate - 2,4,6-Tribromophenol	73 %	55 %	46 %	61 %
Surrogate - Nitrobenzene - d5	58 %	52 %	46 %	55 %
Surrogate - 2-Fluorobiphenyl	71 %	57 %	52 %	60 %
Surrogate - Terphenyl - d14	71 %	52 %	48 %	65 %
Dilution Factor	1.0	1.0	1.0	1.0
Prep Date	07.30.99	07.30.99	07.30.99	07.30.99
Analysis Date	08.02.99	08.02.99	08.02.99	08.03.99
Batch ID	0730A	0730A	0730A	0730A

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15018-4	SB-24-2	07-29-99/11:20
15018-5	SB-23-1	07-29-99/11:25
15018-6	SB-23-2	07-29-99/11:30

PARAMETER	15018-3	15018-4	15018-5	15018-6
TCL Pesticides (8081)				
alpha-BHC, ug/kg dw	<2.5	<2.1	<3.8	<2.1
beta-BHC, ug/kg dw	<2.5	<2.1	<3.8	<2.1
delta-BHC, ug/kg dw	<2.5	<2.1	<3.8	<2.1
gamma-BHC (Lindane), ug/kg dw	<2.5	<2.1	<3.8	<2.1
Heptachlor, ug/kg dw	<2.5	<2.1	<3.8	<2.1
Aldrin, ug/kg dw	<2.5	<2.1	<3.8	<2.1
Heptachlor epoxide, ug/kg dw	<2.5	<2.1	<3.8	<2.1
Endosulfan I, ug/kg dw	<2.5	<2.1	<3.8	<2.1
Dieldrin, ug/kg dw	<4.8	<4.1	<7.3	<4.1
4,4'-DDE, ug/kg dw	<4.8	<4.1	<7.3	<4.1
Endrin, ug/kg dw	<4.8	<4.1	<7.3	<4.1
Endrin aldehyde, ug/kg dw	<4.8	<4.1	<7.3	<4.1
Endosulfan II, ug/kg dw	<4.8	<4.1	<7.3	<4.1
4,4'-DDD, ug/kg dw	<4.8	<4.1	<7.3	<4.1
Endosulfan sulfate, ug/kg dw	<4.8	<4.1	<7.3	<4.1
4,4'-DDT, ug/kg dw	<4.8	<4.1	<7.3	<4.1
Endrin ketone, ug/kg dw	<4.8	<4.1	<7.3	<4.1
Methoxychlor, ug/kg dw	<25	<21	<38	<21
alpha-Chlordane, ug/kg dw	<2.5	<2.1	<3.8	<2.1

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2/10/00

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15018-4	SB-24-2	07-29-99/11:20
15018-5	SB-23-1	07-29-99/11:25
15018-6	SB-23-2	07-29-99/11:30

PARAMETER	15018-3	15018-4	15018-5	15018-6
gamma-Chlordane, ug/kg dw	<2.5	<2.1	<3.8	<2.1
Toxaphene, ug/kg dw	<250	<210	<380	<210
Surrogate - DCB	58 %	61 %	84 %	46 %
Surrogate - 2,4,5,6-Tetrachloro-m-xylene (TCMX)	51 %	59 %	57 %	36 %
Dilution Factor	1.0	1.0	2.0	1.0
Prep Date	07.30.99	07.30.99	07.30.99	07.30.99
Analysis Date	08.03.99	08.03.99	08.05.99	08.03.99
Batch ID	0730P	0730P	0730P	0730P
PCB's (8082)				
Aroclor-1016, ug/kg dw	<48	<41	<73	<41
Aroclor-1221, ug/kg dw	<98	<83	<150	<82
Aroclor-1232, ug/kg dw	<48	<41	<73	<41
Aroclor-1242, ug/kg dw	<48	<41	<73	<41
Aroclor-1248, ug/kg dw	<48	<41	<73	<41
Aroclor-1254, ug/kg dw	<48	<41	<73	<41
Aroclor-1260, ug/kg dw	<48	<41	<73	<41
Surrogate - TCX	51 %	59 %	57 %	36 %
Dilution Factor	1.0	1.0	2.0	1.0
Prep Date	07.30.99	07.30.99	07.30.99	07.30.99
Analysis Date	08.03.99	08.03.99	08.05.99	08.03.99
Batch ID	0730P	0730P	0730P	0730P

qaw
2/10/00

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15018-5	SB-23-1	07-29-99/11:25
15018-6	SB-23-2	07-29-99/11:30

PARAMETER	15018-3	15018-4	15018-5	15018-6
Percent Solids	68	80	90	81

gaw
2/10/00

Serial Number 115939

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

☐ 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (904) 878-3994 — Fax: (904) 878-9504
☐ 414 SW 12th Avenue, Deerfield Beach, FL 33442 — Phone: (954) 421-7400 — Fax: (954) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049
☐ 100 Alpha Drive, Suite 110, Destrehan, LA 70047 — Phone: (504) 764-1100 — Fax: (504) 725-1163

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
HAAF FTA	12021-9-5411	

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
GA	PATRICK KELLEY	770 421 3311	770 421 3486

CLIENT NAME	CLIENT PROJECT MANAGER
LAW	LARRY STEWART

CLIENT ADDRESS (CITY, STATE, ZIP): 112 TOWNPARK DR., KENNESAW, GA 30144

MATRIX TYPE: AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (oil, solvent, etc)

REQUIRED ANALYSES: 8260 ENCORE | 8260 GLASS | 8270 | 8081 PP 8082

PAGE ___ OF ___

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (oil, solvent, etc)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
7/29/99	9:30		HAMW-16-1	X				3 1 1	
7/29/99	9:45		HAMW-16-2	X				3 1 1	
7/29/99	11:15		SB-24-1	X				3 1 1 ↔ 1	
7/29/99	11:20		SB-24-2	X				3 1 1 ↔ 1	
7/29/99	11:25		SB-23-1	X				3 1 1 ↔ 1	
7/29/99	11:30		SB-23-2	X				3 1 1 ↔ 1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY (SIGNATURE)	DATE	TIME
			Patrick Kelley	7/29/99	12:58			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
	7/29/99	12:58	☑ YES ☐ NO		59-15018	L.W.

F-220

ORIGINAL

SEVERN TRENT SERVICES

STL Savannah

CASE NARRATIVE

SDG# HFTA02
PROJECT#s S117111

TCL Semivolatiles Fraction

The following samples were analyzed according to SW-846 Method 8270C.

SL#	SAMPLE DESCRIPTION	MATRIX
S117111*1	SB-46 (4-6)	Solid
S117111*2	SB-44 (6-8)	Solid
S117111*3	SB-46 (12-14)	Solid
S117111*4	SB-43 (2-4)	Solid
S117111*5	SB-100 (2-4)	Solid
S117111*6	SB-44 (2-4)	Solid
S117111*7	SB-43 (0-2)	Solid
S117111*8	SB-EQBLNK02	Liquid

The soil samples were extracted in batch 1102A and the liquid sample was extracted in batch 1102B.

A matrix spike and matrix spike duplicate were performed on sample S117111-4 (SB-43 (2-4)).

The liquid and soil lab control samples were spiked with the routine spike compound list. The spike recovery of pyrene was outside quality control limits (high biased) in the soil lab control sample extracted in batch 1102A. There were no target analytes detected in the associated method blank or client samples; therefore, data has been provided.

SEVERN TRENT SERVICES

STL Savannah

CASE NARRATIVE

SDG# HFTA02
PROJECT#s S117111

Volatiles by GC/MS Fraction

The following samples were analyzed according to SW-846 Method 8260B.

SL#	SAMPLE DESCRIPTION	MATRIX
S117111*1	SB-46 (4-6)	Solid
S117111*2	SB-44 (6-8)	Solid
S117111*3	SB-46 (12-14)	Solid
S117111*4	SB-43 (2-4)	Solid
S117111*5	SB-100 (2-4)	Solid
S117111*6	SB-44 (2-4)	Solid
S117111*7	SB-43 (0-2)	Solid
S117111*8	SB-EQBLNK02	Liquid
S117111*9	Trip Blank	Liquid

A matrix spike and matrix spike duplicate was performed on sample S117111-4 (SB-43 (2-4).

Due to chemical breakdown of isopropyl alcohol (used to clean sampling instruments), acetone exceeded the upper calibration limit in the equipment blank (S117111-8); therefore, the sample was not reanalyzed diluted and origianl data has been provided.

F-222

SEVERN TRENT SERVICES

STL Savannah

CASE NARRATIVE

SDG# HFTA02
PROJECT#s S117111

Metals Fraction

The following samples were analyzed according to SW-846 Method 6010B for chromium.

SL #	SAMPLE DESCRIPTION	MATRIX
S117111*1	SB-46 (4-6)	Solid
S117111*2	SB-44 (6-8)	Solid
S117111*3	SB-46 (12-14)	Solid
S117111*4	SB-43 (2-4)	Solid
S117111*5	SB-100 (2-4)	Solid
S117111*6	SB-44 (2-4)	Solid
S117111*7	SB-43 (0-2)	Solid
S117111*8	SB-EQBLNK02	Liquid

Sample S117111-4 (SB-43 (2-4)) was the designated matrix spike / matrix spike duplicate.

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LOG NO: S1-17111
Received: 01 NOV 01
Reported: 13 NOV 01

Mr. David Wilderman
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3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 114311113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17111-1	SB-46 (4-6)	10-31-01/17:35	HFTA02
17111-2	SB-44 (6-8)	11-01-01/18:00	HFTA02
17111-3	SB-46 (12-14)	10-31-01/17:50	HFTA02
17111-4	SB-43 (2-4)	11-01-01/10:30	HFTA02
17111-5	SB-100 (2-4)	11-01-01/12:00	HFTA02

PARAMETER	17111-1	17111-2	17111-3	17111-4	17111-5
TCL Semivolatiles (8270)					
Acenaphthene, ug/kg dw	340U	380U	380U	350U	350U
Acenaphthylene, ug/kg dw	340U	380U	380U	350U	350U
Anthracene, ug/kg dw	340U	380U	380U	350U	350U
Benzo(a)anthracene, ug/kg dw	340U	380U	380U	350U	350U
Benzo(b)fluoranthene, ug/kg dw	340U	380U	380U	350U	350U
Benzo(k)fluoranthene, ug/kg dw	340U	380U	380U	350U	350U
Benzo(g,h,i)perylene, ug/kg dw	340U	380U	380U	350U	350U
Benzo(a)pyrene, ug/kg dw	340U	380U	380U	350U	350U
bis(2-Ethylhexyl)phthalate, ug/kg dw	340U	380U	380U	350U	350U
4-Bromophenylphenyl ether, ug/kg dw	340U	380U	380U	350U	350U
Chrysene, ug/kg dw	340U	380U	380U	350U	350U
Dibenzo(a,h)anthracene, ug/kg dw	340U	380U	380U	350U	350U
Di-n-butylphthalate, ug/kg dw	340U	380U	380U	350U	350U
1,2-Dichlorobenzene, ug/kg dw	340U	380U	380U	350U	350U
1,3-Dichlorobenzene, ug/kg dw	340U	380U	380U	350U	350U
1,4-Dichlorobenzene, ug/kg dw	340U	380U	380U	350U	350U

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17111-2	SB-44 (6-8)	11-01-01/18:00	HFTA02
17111-3	SB-46 (12-14)	10-31-01/17:50	HFTA02
17111-4	SB-43 (2-4)	11-01-01/10:30	HFTA02
17111-5	SB-100 (2-4)	11-01-01/12:00	HFTA02

PARAMETER	17111-1	17111-2	17111-3	17111-4	17111-5
Diethylphthalate, ug/kg dw	340U	380U	380U	350U	350U
Fluoranthene, ug/kg dw	340U	380U	380U	350U	350U
Fluorene, ug/kg dw	340U	380U	380U	350U	350U
Indeno(1,2,3-cd)pyrene, ug/kg dw	340U	380U	380U	350U	350U
Naphthalene, ug/kg dw	340U	380U	380U	350U	350U
Phenanthrene, ug/kg dw	340U	380U	380U	350U	350U
Pyrene, ug/kg dw	340U	380U	380U	350U	350U
Surrogate - Nitrobenzene - d5	82 %	79 %	79 %	72 %	89 %
Surrogate - 2-Fluorobiphenyl	88 %	84 %	89 %	78 %	100 %
Surrogate - Terphenyl-d14	88 %	95 %	89 %	78 %	100 %
2,4-Dinitrotoluene, ug/kg dw	---	---	---	350U	---
1,2,4-Trichlorobenzene, ug/kg dw	---	---	---	350U	---
n-Nitrosodi-n-propylamine, ug/kg dw	---	---	---	350U	---
Dilution Factor	1	1	1	1	1
Prep Date	11.02.01	11.02.01	11.02.01	11.02.01	11.02.01
Analysis Date	11.02.01	11.02.01	11.02.01	11.02.01	11.02.01
Batch ID	1102A	1102A	1102A	1102A	1102A

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17111-2	SB-44 (6-8)	11-01-01/18:00	HFTA02
17111-3	SB-46 (12-14)	10-31-01/17:50	HFTA02
17111-4	SB-43 (2-4)	11-01-01/10:30	HFTA02
17111-5	SB-100 (2-4)	11-01-01/12:00	HFTA02

PARAMETER	17111-1	17111-2	17111-3	17111-4	17111-5
Volatiles by GC/MS (8260)					
Acetone, ug/kg dw	60U	59U	58U	60U	60U
Benzene, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
2-Butanone (MEK), ug/kg dw	30U	30U	29U	30U	30U
Carbon tetrachloride, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
Chlorobenzene, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
Chloroethane, ug/kg dw	12U	12U	12U	12U	12U
Chloroform, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
Chloromethane, ug/kg dw	12U	12U	12U	12U	12U
1,1-Dichloroethene, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
1,2-Dichloroethane, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
1,1-Dichloroethane, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
cis-1,2-Dichloroethene, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
trans-1,2-Dichloroethene, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
Ethylbenzene, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
Methylene chloride (Dichloromethane), ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
Tetrachloroethene, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
Toluene, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U

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Sampled By: Client
Code: 114311113

REPORT OF RESULTS

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17111-2	SB-44 (6-8)	11-01-01/18:00	HFTA02
17111-3	SB-46 (12-14)	10-31-01/17:50	HFTA02
17111-4	SB-43 (2-4)	11-01-01/10:30	HFTA02
17111-5	SB-100 (2-4)	11-01-01/12:00	HFTA02

PARAMETER	17111-1	17111-2	17111-3	17111-4	17111-5
1,1,1-Trichloroethane, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
1,1,2-Trichloroethane, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
Trichloroethene, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
Trichlorofluoromethane, ug/kg dw	6.0U	5.9U	5.8U	6.0U	6.0U
Vinyl chloride, ug/kg dw	12U	12U	12U	12U	12U
Xylenes, Total, ug/kg dw	12U	12U	12U	12U	12U
Surrogate - Toluene-d8	100 %	95 %	103 %	98 %	90 %
Surrogate - 4-Bromofluorobenzene	98 %	80 %	103 %	93 %	70 %
Surrogate - Dibromofluoromethane	100 %	95 %	95 %	93 %	93 %
Dilution Factor	1	1	1	1	1
Analysis Date	11.02.01	11.02.01	11.02.01	11.02.01	11.02.01
Batch ID	1L1102	1L1102	1L1102	1L1102	1L1102
Chromium (6010)					
Chromium, mg/kg dw	1.9	4.3	3.9	2.6	2.9
Dilution Factor	1	1	1	1	1
Prep Date	11.02.01	11.02.01	11.02.01	11.02.01	11.02.01
Analysis Date	11.02.01	11.02.01	11.02.01	11.02.01	11.02.01
Batch ID	1102A	1102A	1102A	1102A	1102A
Percent Solids	96	88	86	93	93

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Cl Project No: 12001-9-3411

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17111-8	SB-EQBLNK02	11-01-01/11:00	HFTA02

PARAMETER	17111-8
TCL Semivolatiles (8270)	
Acenaphthene, ug/l	10U
Acenaphthylene, ug/l	10U
Anthracene, ug/l	10U
Benzo(a)anthracene, ug/l	10U
Benzo(b)fluoranthene, ug/l	10U
Benzo(k)fluoranthene, ug/l	10U
Benzo(g,h,i)perylene, ug/l	10U
Benzo(a)pyrene, ug/l	10U
bis(2-Ethylhexyl)phthalate, ug/l	10U
4-Bromophenylphenyl ether, ug/l	10U
Chrysene, ug/l	10U
Dibenzo(a,h)anthracene, ug/l	10U
Di-n-butylphthalate, ug/l	10U
1,2-Dichlorobenzene, ug/l	10U
1,3-Dichlorobenzene, ug/l	10U
1,4-Dichlorobenzene, ug/l	10U
Diethylphthalate, ug/l	10U
Fluoranthene, ug/l	10U
Fluorene, ug/l	10U
Indeno(1,2,3-cd)pyrene, ug/l	10U
Naphthalene, ug/l	10U
Phenanthrene, ug/l	10U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17111-8	SB-EQBLNK02	11-O1-01/11:00	HFTA02

PARAMETER	17111-8
Pyrene, ug/l	10U
Surrogate - Nitrobenzene - d5	104 %
Surrogate - 2-Fluorobiphenyl	110 %
Surrogate - Terphenyl-d14	120 %
Dilution Factor	1
Prep Date	11.02.01
Analysis Date	11.05.01
Batch ID	1102B

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17111-8	SB-EQBLNK02	11-01-01/11:00	HFTA02

PARAMETER	17111-8
Volatiles by GC/MS (8260)	
Acetone, ug/l	2100E
Benzene, ug/l	5.0U
2-Butanone (MEK), ug/l	25U
Carbon tetrachloride, ug/l	5.0U
Chlorobenzene, ug/l	5.0U
Chloroethane, ug/l	10U
Chloroform, ug/l	5.0U
Chloromethane, ug/l	10U
1,1-Dichloroethene, ug/l	5.0U
1,2-Dichloroethane, ug/l	5.0U
1,1-Dichloroethane, ug/l	5.0U
cis-1,2-Dichloroethene, ug/l	5.0U
trans-1,2-Dichloroethene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Methylene chloride (Dichloromethane), ug/l	5.0U
Tetrachloroethene, ug/l	5.0U
Toluene, ug/l	5.0U
1,1,1-Trichloroethane, ug/l	5.0U
1,1,2-Trichloroethane, ug/l	5.0U
Trichloroethene, ug/l	5.0U
Trichlorofluoromethane, ug/l	5.0U
Vinyl chloride, ug/l	10U

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17111-8	SB-EQBLNK02	11-01-01/11:00	HFTA02

PARAMETER	17111-8
Xylenes, Total, ug/l	10U
Surrogate - Toluene-d8	104 %
Surrogate - 4-Bromofluorobenzene	100 %
Surrogate - Dibromofluoromethane	104 %
Dilution Factor	1
Analysis Date	11.02.01
atch ID	1L1102
Chromium (6010)	
Chromium, mg/l	0.010U
Dilution Factor	1
Prep Date	11.02.01
Analysis Date	11.02.01
Batch ID	1102H

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17111-6	SB-44 (2-4)	11-01-01/17:50	HFTA02
17111-7	SB-43 (0-2)	11-01-01/10:15	HFTA02

PARAMETER	17111-6	17111-7
TCL Semivolatiles (8270)		
Acenaphthene, ug/kg dw	350U	370U
Acenaphthylene, ug/kg dw	350U	370U
Anthracene, ug/kg dw	350U	370U
Benzo(a)anthracene, ug/kg dw	350U	370U
Benzo(b)fluoranthene, ug/kg dw	350U	370U
Benzo(k)fluoranthene, ug/kg dw	350U	370U
Benzo(g,h,i)perylene, ug/kg dw	350U	370U
Benzo(a)pyrene, ug/kg dw	350U	370U
bis(2-Ethylhexyl)phthalate, ug/kg dw	350U	370U
4-Bromophenylphenyl ether, ug/kg dw	350U	370U
Chrysene, ug/kg dw	350U	370U
Dibenzo(a,h)anthracene, ug/kg dw	350U	370U
Di-n-butylphthalate, ug/kg dw	350U	370U
1,2-Dichlorobenzene, ug/kg dw	350U	370U
1,3-Dichlorobenzene, ug/kg dw	350U	370U
1,4-Dichlorobenzene, ug/kg dw	350U	370U
Diethylphthalate, ug/kg dw	350U	370U
Fluoranthene, ug/kg dw	350U	370U
Fluorene, ug/kg dw	350U	370U
Indeno(1,2,3-cd)pyrene, ug/kg dw	350U	370U
Naphthalene, ug/kg dw	350U	370U

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17111-6	SB-44 (2-4)	11-01-01/17:50	HFTA02
17111-7	SB-43 (0-2)	11-01-01/10:15	HFTA02

PARAMETER	17111-6	17111-7
Phenanthrene, ug/kg dw	350U	370U
Pyrene, ug/kg dw	350U	370U
Surrogate - Nitrobenzene - d5	94 %	95 %
Surrogate - 2-Fluorobiphenyl	100 %	100 %
Surrogate - Terphenyl-d14	94 %	105 %
Dilution Factor	1	1
Prep Date	11.02.01	11.02.01
Analysis Date	11.02.01	11.02.01
Batch ID	1102A	1102A

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17111-7	SB-43 (0-2)	11-01-01/10:15	HFTA02

PARAMETER	17111-6	17111-7
Volatiles by GC/MS (8260)		
Acetone, ug/kg dw	58U	88
Benzene, ug/kg dw	5.8U	5.8U
2-Butanone (MEK), ug/kg dw	29U	29U
Carbon tetrachloride, ug/kg dw	5.8U	5.8U
Chlorobenzene, ug/kg dw	5.8U	5.8U
Chloroethane, ug/kg dw	12U	12U
Chloroform, ug/kg dw	5.8U	5.8U
Chloromethane, ug/kg dw	12U	12U
1,1-Dichloroethene, ug/kg dw	5.8U	5.8U
1,2-Dichloroethane, ug/kg dw	5.8U	5.8U
1,1-Dichloroethane, ug/kg dw	5.8U	5.8U
cis-1,2-Dichloroethene, ug/kg dw	5.8U	5.8U
trans-1,2-Dichloroethene, ug/kg dw	5.8U	5.8U
Ethylbenzene, ug/kg dw	5.8U	5.8U
Methylene chloride (Dichloromethane), ug/kg dw	5.8U	5.8U
Tetrachloroethene, ug/kg dw	5.8U	5.8U
Toluene, ug/kg dw	5.8U	5.8U
1,1,1-Trichloroethane, ug/kg dw	5.8U	5.8U
1,1,2-Trichloroethane, ug/kg dw	5.8U	5.8U
Trichloroethene, ug/kg dw	5.8U	5.8U
Trichlorofluoromethane, ug/kg dw	5.8U	5.8U

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17111-6	SB-44 (2-4)	11-01-01/17:50	HFTA02
17111-7	SB-43 (0-2)	11-01-01/10:15	HFTA02

PARAMETER	17111-6	17111-7
Vinyl chloride, ug/kg dw	12U	12U
Xylenes, Total, ug/kg dw	12U	12U
Surrogate - Toluene-d8	98 %	96 %
Surrogate - 4-Bromofluorobenzene	79 %	78 %
urrogate - Dibromofluoromethane	93 %	100 %
Dilution Factor	1	1
Analysis Date	11.02.01	11.02.01
Batch ID	1L1102	1L1102
Chromium (6010)		
Chromium, mg/kg dw	2.7	2.4
Dilution Factor	1	1
Prep Date	11.02.01	11.02.01
Analysis Date	11.02.01	11.02.01
Batch ID	1102A	1102A
Percent Solids	93	89

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17111-9	Trip Blank	11-01-01	HFTA02

PARAMETER	17111-9
Volatiles by GC/MS (8260)	
Acetone, ug/l	50U
Benzene, ug/l	5.0U
2-Butanone (MEK), ug/l	25U
Carbon tetrachloride, ug/l	5.0U
Chlorobenzene, ug/l	5.0U
Chloroethane, ug/l	10U
Chloroform, ug/l	5.0U
Chloromethane, ug/l	10U
1,1-Dichloroethene, ug/l	5.0U
1,2-Dichloroethane, ug/l	5.0U
1,1-Dichloroethane, ug/l	5.0U
cis-1,2-Dichloroethene, ug/l	5.0U
trans-1,2-Dichloroethene, ug/l	5.0U
Ethylbenzene, ug/l	5.0U
Methylene chloride (Dichloromethane), ug/l	5.0U
Tetrachloroethene, ug/l	5.0U
Toluene, ug/l	5.0U
1,1,1-Trichloroethane, ug/l	5.0U
1,1,2-Trichloroethane, ug/l	5.0U
Trichloroethene, ug/l	5.0U
Trichlorofluoromethane, ug/l	5.0U
Vinyl chloride, ug/l	10U

SEVERN TRENT SERVICES
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LOG NO: S1-17111
Received: 01 NOV 01
Reported: 13 NOV 01

Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 114311113

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17111-9	Trip Blank	11-01-01	HFTA02

PARAMETER	17111-9				
Xylenes, Total, ug/l	10U				
Surrogate - Toluene-d8	100 %				
Surrogate - 4-Bromofluorobenzene	100 %				
Surrogate - Dibromofluoromethane	100 %				
Dilution Factor	1				
Analysis Date	11.02.01				
Batch ID	1L1102				

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

U = Indicates compound was analyzed for but not detected.

E (Organic) = Result exceeded the upper calibration limit.

Angie Weimerskirk

Angie Weimerskirk, Project Manager

Serial Number 043906

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

STL Savannah

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
HUNTER AAF	12001-9-3461	GA
STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
DAVID WILDELMAN	770-421-3400	
CLIENT NAME	CLIENT E-MAIL	
LAW ENG.		
CLIENT ADDRESS		
3200 TOWN POINT DR NW, KENNESAW, GA 30144		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ( )
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOCs	SVOCs	Chromium	NUMBER OF CONTAINERS SUBMITTED	REMARKS
										PRESERVATIVE		
11-1-01	11:00	SB-EQBLANK02	G	X				3	2	1		
10-31-01	17:35	SB-46 (4-6)	G		X			4	1	1		48 TAT
11-1-01	1800	SB-44 (6-8)	G		X			4	1	1		↓
10-31-01	1750	SB-46 (12-14)	G		X			4	1	1		

RUSH

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	10/22/01	1170		11-1-01	2005			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			D. Gide	11-1-01	20:05			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT: YES / NO	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
	11-1-01 11/2/01	1:30pm 800 hrs	YES ( ) NO ( )		11710	S1-17111

ORIGINAL – RETURN TO LABORATORY WITH SAMPLE(S)

Serial Number 043905

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

STL Savannah

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

◯ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
HUNTER	12001-9-3411	GA
STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: DAVID WILDERMAN	CLIENT PHONE: 770-421-3400	CLIENT FAX
CLIENT NAME: LAW	CLIENT E-MAIL	
CLIENT ADDRESS: 3200 TOWN POINT DR. NW, KENNESAW, GA		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE ____ OF ____

STANDARD REPORT DELIVERY ◯
DATE DUE ____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE ____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOCs	SVOCs	CHLORIDE	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
11-1-01	10:30	SB-43 (2-4)	G		X			4	1	1			48 TAT
11-1-01	10:30	SB-43 (2-4) MS/MSD	G		X			4	1	1			
11-1-01	1200	SB-100 (2-4)	G		X			4	1	1			
11-1-01	1750	SB-44 (2-4)	G		X			4	1	1			
11-1-01	10:15	SB-43 (0-2)	G		X			4	1	1			

RUSH

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	10/22/01	1140		11-1-01	20:05			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			D. Graham	11-1-01	20:05			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
K Conner	11-1-01 / 11/2/01	7:30PM / 800AM	YES ◯ NO ◯		SI-17110 SI-17111	

ORIGINAL – RETURN TO LABORATORY WITH SAMPLE(S)

SEVERN TRENT SERVICES

STL Savannah

CASE NARRATIVE

SDG# HFTA01
PROJECT#s S117071

TCL Semivolatiles Fraction

The following samples were analyzed according to SW-846 Method 8270C.

SL#	SAMPLE DESCRIPTION	MATRIX
S117071*1	SB-50 (0-2)	Solid
S117071*2	SB-45 (0-2)	Solid
S117071*3	SB-49 (0-2)	Solid
S117071*6	SB-EQBLNK01	Liquid

The liquid sample was extracted in batch 1031A and the soil samples were extracted in batch 1101A. The liquid sample was extracted with a lab control sample (LCS) spiked with the full compound spiking list and the soil samples were extracted with a LCS spiked with the routine spike compound list.

A matrix spike and matrix spike duplicate were performed on sample S117071-2 (SB-45 (0-2)).

SEVERN TRENT SERVICES

STL Savannah

CASE NARRATIVE

SDG# HFTA01
PROJECT#s S117071

Metals Fraction

The following samples were analyzed according to SW-846 Method 6010B for barium and chromium.

SL#	SAMPLE DESCRIPTION	MATRIX
S117071*4	SB-48 (2-5)	Solid
S117071*5	SB-47 (2-4)	Solid
S117071*6	SB-EQBLNK01	Liquid

There were no exceptions to the established quality control criteria observed during the analysis of samples in this delivery group.

F-241

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LOG NO: S1-17071
Received: 31 OCT 01
Reported: 08 NOV 01

Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 164811112

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17071-1	SB-50 (0-2)	10-31-01/09:00	HFTA01
17071-2	SB-45 (0-2)	10-31-01/09:30	HFTA01
17071-3	SB-49 (0-2)	10-31-01/10:05	HFTA01

PARAMETER	17071-1	17071-2	17071-3
TCL Semivolatiles (8270)			
Acenaphthene, ug/kg dw	340U	340U	330U
Acenaphthylene, ug/kg dw	340U	340U	330U
Anthracene, ug/kg dw	340U	340U	330U
Benzo(a)anthracene, ug/kg dw	340U	340U	330U
Benzo(b)fluoranthene, ug/kg dw	340U	340U	330U
Benzo(k)fluoranthene, ug/kg dw	340U	340U	330U
Benzo(g,h,i)perylene, ug/kg dw	340U	340U	330U
Benzo(a)pyrene, ug/kg dw	340U	340U	330U
bis(2-Ethylhexyl)phthalate, ug/kg dw	340U	340U	330U
4-Bromophenylphenyl ether, ug/kg dw	340U	340U	330U
Chrysene, ug/kg dw	340U	340U	330U
Dibenzo(a,h)anthracene, ug/kg dw	340U	340U	330U
Di-n-butylphthalate, ug/kg dw	340U	340U	330U
1,2-Dichlorobenzene, ug/kg dw	340U	340U	330U
1,3-Dichlorobenzene, ug/kg dw	340U	340U	330U
1,4-Dichlorobenzene, ug/kg dw	340U	340U	330U
Diethylphthalate, ug/kg dw	340U	340U	330U
Fluoranthene, ug/kg dw	340U	340U	330U
Fluorene, ug/kg dw	340U	340U	330U
Indeno(1,2,3-cd)pyrene, ug/kg dw	340U	340U	330U

SEVERN TRENT SERVICES
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LOG NO: S1-17071
Received: 31 OCT 01
Reported: 08 NOV 01

Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 164811112

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17071-1	SB-50 (0-2)	10-31-01/09:00	HFTA01
17071-2	SB-45 (0-2)	10-31-01/09:30	HFTA01
17071-3	SB-49 (0-2)	10-31-01/10:05	HFTA01

PARAMETER	17071-1	17071-2	17071-3
Naphthalene, ug/kg dw	340U	340U	330U
Phenanthrene, ug/kg dw	340U	340U	330U
Pyrene, ug/kg dw	340U	340U	330U
Surrogate - Nitrobenzene - d5	65 %	38 %	40 %
Surrogate - 2-Fluorobiphenyl	65 %	48 %	50 %
Surrogate - Terphenyl-d14	70 %	54 %	52 %
n-Nitrosodi-n-propylamine, ug/kg dw	---	340U	---
2,4-Dinitrotoluene, ug/kg dw	---	340U	---
1,2,4-Trichlorobenzene, ug/kg dw	---	340U	---
Dilution Factor	1	1	1
Prep Date	11.01.01	11.01.01	11.01.01
Analysis Date	11.01.01	11.01.01	11.01.01
Batch ID	1101A	1101A	1101A
Percent Solids	96	98	99

SEVERN TRENT SERVICES
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LOG NO: S1-17071
Received: 31 OCT 01
Reported: 08 NOV 01

Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 164811112

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17071-4	SB-48 (2-5)	10-31-01/10:50	HFTA01

PARAMETER	17071-4
Chromium (6010)	
Chromium, mg/kg dw	3.9
Dilution Factor	1
Prep Date	11.01.01
Analysis Date	11.02.01
Batch ID	1101B
Percent Solids	94

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LOG NO: S1-17071
Received: 31 OCT 01
Reported: 08 NOV 01

Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 164811112

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17071-5	SB-47 (2-4)	10-31-01/11:45	HFTA01

PARAMETER	17071-5
Barium (6010)	
Barium, mg/kg dw	6.5
Dilution Factor	1
Prep Date	11.01.01
Analysis Date	11.02.01
Batch ID	1101B
Percent Solids	92

SEVERN TRENT SERVICES
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LOG NO: S1-17071
Received: 31 OCT 01
Reported: 08 NOV 01

Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 164811112

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17071-6	SB-EQBLNK01	10-31-01/08:05	HFTA01

PARAMETER	17071-6
TCL Semivolatiles (8270)	
Acenaphthene, ug/l	10U
Acenaphthylene, ug/l	10U
Anthracene, ug/l	10U
Benzo(a)anthracene, ug/l	10U
Benzo(b)fluoranthene, ug/l	10U
Benzo(k)fluoranthene, ug/l	10U
Benzo(g,h,i)perylene, ug/l	10U
Benzo(a)pyrene, ug/l	10U
bis(2-Ethylhexyl)phthalate, ug/l	10U
4-Bromophenylphenyl ether, ug/l	10U
Chrysene, ug/l	10U
Dibenzo(a,h)anthracene, ug/l	10U
Di-n-butylphthalate, ug/l	10U
1,2-Dichlorobenzene, ug/l	10U
1,3-Dichlorobenzene, ug/l	10U
1,4-Dichlorobenzene, ug/l	10U
Diethylphthalate, ug/l	10U
Fluoranthene, ug/l	10U
Fluorene, ug/l	10U
Indeno(1,2,3-cd)pyrene, ug/l	10U
Naphthalene, ug/l	10U
Phenanthrene, ug/l	10U

SEVERN TRENT SERVICES

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STL Savannah

LOG NO: S1-17071
Received: 31 OCT 01
Reported: 08 NOV 01

Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 164811112

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17071-6	SB-EQBLNK01	10-31-01/08:05	HFTA01

PARAMETER	17071-6
Pyrene, ug/l	10U
Surrogate - Nitrobenzene - d5	79 %
Surrogate - 2-Fluorobiphenyl	75 %
Surrogate - Terphenyl-d14	94 %
Dilution Factor	1
Prep Date	10.31.01
Analysis Date	11.01.01
Batch ID	1031A
Barium (6010)	
Barium, mg/l	0.010U
Dilution Factor	1
Prep Date	11.01.01
Analysis Date	11.02.01
Batch ID	1101G
Chromium (6010)	
Chromium, mg/l	0.010U
Dilution Factor	1
Prep Date	11.01.01
Analysis Date	11.02.01
Batch ID	1101G

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL project manager who signed this test report.

Angie Weimerskirk

Angie Weimerskirk, Project Manager

Serial Number 043907

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

STL Savannah

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Hunter AAF	12001-9-3411	GA
STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: David Wilderman	CLIENT PHONE: 770-421-3400	CLIENT FAX
CLIENT NAME: LAW Eng.	CLIENT E-MAIL	
CLIENT ADDRESS: 3200 TownPoint Dr. Suite 100		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE ____ OF ____

STANDARD REPORT DELIVERY ◯
DATE DUE ____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE ____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: NUMBER OF CONTAINERS SUBMITTED — 8260 VOC	Chromium	Barium	VOC	Metals (8 RCRA)	PRESERVATIVE	REMARKS
10/31/01	9:00	SB-50 (0-2)	G		X			1						
	9:30	SB-45 (0-2)	G		X			1						
	10:05	SB-49 (0-2)	G		X			1						
	10:50	SB-48 (2-5)	G		X				1					
	11:45	SB-47 (2-4)	G		X					1				
10/31/01	8:05	SB-EQBLNK01	G	X				2			3	1		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	10/26/01	1140		10/31/01	14:10			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ◯ NO ◯	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
	10/31/01	2:15			7991	

ORIGINAL – RETURN TO LABORATORY WITH SAMPLE(S)

SEVERN TRENT SERVICES

STL Savannah

CASE NARRATIVE

SDG# HFTA03
PROJECT#s S117211, S117211A, S117209

Volatiles by GC/MS Fraction

The following samples were analyzed according to SW-846 Method 8260B.

SL#	SAMPLE DESCRIPTION	MATRIX
S117211*2	HMW-22	Liquid
S117211*3	HMW-21	Liquid
S117211A*2	HMW-14R	Liquid
S117211A*3	Trip Blank	Liquid
S117209*1	1DW-DECON	Liquid
S117209*3	TRIP BLANK	Liquid
S117211A*1	HMW-3	Liquid
S117209*2	HMW-100	Liquid
S117211*1	SB-43A (0-2)	Solid

Sample S117211-2 (HMW-22) was the designated matrix spike/matrix spike duplicate.

Due to the abundance of target analytes, sample S117209-1 was analyzed at a primary dilution of 1:4 and a secondary dilution of 1:20.

Due to the abundance of target analytes, samples S117211-3 and S117211A-2 were analyzed at secondary dilutions of 1:4 and 1:5, respectively.

SEVERN TRENT SERVICES

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STL Savannah

LOG NO: S1-17211
Received: 07 NOV 01
Reported: 26 NOV 01

Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120411127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17211-2	HMW-22	11-06-01/12:30	HFTA03
17211-3	HMW-21	11-06-01/10:30	HFTA03
17211-3-DL	HMW-21	11-06-01/10:30	HFTA03

PARAMETER	17211-2	17211-3	17211-3-DL
Volatiles by GC/MS (8260)			
Acetone, ug/l	25U	25U	100U
Benzene, ug/l	1.0U	1.0U	4.0U
2-Butanone (MEK), ug/l	10U	10U	40U
Carbon tetrachloride, ug/l	1.0U	1.0U	4.0U
Chlorobenzene, ug/l	1.0U	1.0U	4.0U
Chloroethane, ug/l	1.0U	1.0U	4.0U
Chloroform, ug/l	1.0U	1.0U	4.0U
Chloromethane, ug/l	1.0U	1.0U	4.0U
1,1-Dichloroethane, ug/l	1.0U	1.0U	4.0U
1,2-Dichloroethane, ug/l	1.0U	1.0U	4.0U
1,1-Dichloroethene, ug/l	1.0U	1.6	4.0U
cis-1,2-Dichloroethene, ug/l	1.0U	450E	390D
trans-1,2-Dichloroethene, ug/l	1.0U	5.8	4.0U
Ethylbenzene, ug/l	1.0U	1.0U	4.0U
Methylene chloride (Dichloromethane), ug/l	5.0U	5.0U	20U
Tetrachloroethene, ug/l	1.0U	1.0U	4.0U
Toluene, ug/l	1.0U	1.0U	4.0U
1,1,1-Trichloroethane, ug/l	1.0U	1.0U	4.0U
1,1,2-Trichloroethane, ug/l	1.0U	1.0U	4.0U
Trichloroethene, ug/l	1.0U	1.0U	4.0U

F-250

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LOG NO: S1-17211
Received: 07 NOV 01
Reported: 26 NOV 01

Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120411127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17211-2	HMW-22	11-06-01/12:30	HFTA03
17211-3	HMW-21	11-06-01/10:30	HFTA03
17211-3-DL	HMW-21	11-06-01/10:30	HFTA03

PARAMETER	17211-2	17211-3	17211-3-DL
Vinyl chloride, ug/l	1.0U	5.4	4.7D
Xylenes, Total, ug/l	2.0U	2.0U	8.0U
Trichlorofluoromethane, ug/l	1.0U	1.0U	4.0U
Surrogate - Toluene-d8	104 %	104 %	106 %
Surrogate - 4-Bromofluorobenzene	90 %	90 %	88 %
Surrogate - Dibromofluoromethane	90 %	90 %	88 %
Dilution Factor	1	1	4
Analysis Date	11.07.01	11.07.01	11.07.01
Batch ID	1B1107	1B1107	1B1107

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

U = Indicates compound was analyzed for but not detected.

E (Organic) = Result exceeded the upper calibration limit.

D = Result is from a secondary dilution.

Angie Weimerskirk

Angie Weimerskirk, Project Manager

F-251

SEVERN TRENT SERVICES

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STL Savannah

LOG NO: S1-17211A
Received: 07 NOV 01
Reported: 26 NOV 01

Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120411127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17211A-2	HMW-14R	11-06-01/15:40	HFTA03
17211A-2-D	HMW-14R	11-06-01/15:40	HFTA03
17211A-3	Trip Blank	11-06-01	HFTA03

PARAMETER	17211A-2	17211A-2-DL	17211A-3
Volatiles by GC/MS (8260)			
Acetone, ug/l	25U	120U	25U
Benzene, ug/l	1.1	5.0U	1.0U
2-Butanone (MEK), ug/l	10U	50U	10U
Carbon tetrachloride, ug/l	1.0U	5.0U	1.0U
Chlorobenzene, ug/l	1.0U	5.0U	1.0U
Chloroethane, ug/l	1.0U	5.0U	1.0U
Chloroform, ug/l	1.0U	5.0U	1.0U
Chloromethane, ug/l	1.0U	5.0U	1.0U
1,1-Dichloroethane, ug/l	1.0U	5.0U	1.0U
1,2-Dichloroethane, ug/l	1.0U	5.0U	1.0U
1,1-Dichloroethene, ug/l	1.0U	5.0U	1.0U
cis-1,2-Dichloroethene, ug/l	740E	950D	1.0U
trans-1,2-Dichloroethene, ug/l	33	32D	1.0U
Ethylbenzene, ug/l	1.0U	5.0U	1.0U
Methylene chloride (Dichloromethane), ug/l	5.0U	25U	5.0U
Tetrachloroethene, ug/l	1.0U	5.0U	1.0U
Toluene, ug/l	1.0U	5.0U	1.0U
1,1,1-Trichloroethane, ug/l	1.0U	5.0U	1.0U
1,1,2-Trichloroethane, ug/l	1.0U	5.0U	1.0U
Trichloroethene, ug/l	1.0U	5.0U	1.0U

F-252

SEVERN TRENT SERVICES
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LOG NO: S1-17211A
Received: 07 NOV 01
Reported: 26 NOV 01

Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120411127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17211A-2	HMW-14R	11-06-01/15:40	HFTA03
17211A-2-D	HMW-14R	11-06-01/15:40	HFTA03
17211A-3	Trip Blank	11-06-01	HFTA03

PARAMETER	17211A-2	17211A-2-DL	17211A-3
Vinyl chloride, ug/l	4.8	5.0U	1.0U
Xylenes, Total, ug/l	2.0U	10U	2.0U
Trichlorofluoromethane, ug/l	1.0U	5.0U	1.0U
Surrogate - Toluene-d8	108 %	104 %	106 %
Surrogate - 4-Bromofluorobenzene	90 %	88 %	90 %
Surrogate - Dibromofluoromethane	90 %	86 %	86 %
Dilution Factor	1	5	1
Analysis Date	11.07.01	11.07.01	11.07.01
Batch ID	1B1107	1B1107	1B1107

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

U = Indicates compound was analyzed for but not detected.

D = Result is from a secondary dilution.

E (Organic) = Result exceeded the upper calibration limit.

Angie Weimerskirk, Project Manager

F-253

SEVERN TRENT SERVICES
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LOG NO: S1-17211A
Received: 07 NOV 01
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Mr. David Wilderman
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3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120411127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17211A-1	HMW-3	11-06-01/20:15	HFTA03

PARAMETER	17211A-1
Acid & Base Neutral Extractables (8270)	
Acenaphthene, ug/l	10U
Acenaphthylene, ug/l	10U
Anthracene, ug/l	10U
Benzo(a)anthracene, ug/l	10U
Benzo(b)fluoranthene, ug/l	10U
Benzo(k)fluoranthene, ug/l	10U
Benzo(g,h,i)perylene, ug/l	10U
Benzo(a)pyrene, ug/l	10U
bis(2-Ethylhexyl)phthalate, ug/l	10U
Chrysene, ug/l	10U
Dibenzo(a,h)anthracene, ug/l	10U
Di-n-butylphthalate, ug/l	10U
1,2-Dichlorobenzene, ug/l	10U
1,3-Dichlorobenzene, ug/l	10U
1,4-Dichlorobenzene, ug/l	10U
Diethylphthalate, ug/l	10U
Fluoranthene, ug/l	10U
Fluorene, ug/l	10U
Indeno(1,2,3-cd)pyrene, ug/l	10U
Naphthalene, ug/l	10U
Phenanthrene, ug/l	10U
Pyrene, ug/l	10U

F-254

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STL Savannah

LOG NO: S1-17211A
Received: 07 NOV 01
Reported: 26 NOV 01

Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100 Cl Project No: 12001-9-3411
Kennesaw, GA 30144

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120411127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17211A-1	HMW-3	11-06-01/20:15	HFTA03

PARAMETER	17211A-1
4-Bromophenylphenyl ether, ug/l	10U
Surrogate-NBZ	92 %
Surrogate-2FBP	84 %
Surrogate-TPH	52 %
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.12.01
Batch ID	1107E

F-255

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STL Savannah

LOG NO: S1-17211A
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3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120411127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17211A-1	HMW-3	11-06-01/20:15	HFTA03

PARAMETER	17211A-1
Volatiles by GC/MS (8260)	
Acetone, ug/l	25U
Benzene, ug/l	1.0U
2-Butanone (MEK), ug/l	10U
Carbon tetrachloride, ug/l	1.0U
Chlorobenzene, ug/l	1.0U
Chloroethane, ug/l	1.0U
Chloroform, ug/l	1.0U
Chloromethane, ug/l	1.0U
1,1-Dichloroethane, ug/l	1.0U
1,2-Dichloroethane, ug/l	1.0U
1,1-Dichloroethene, ug/l	1.0U
cis-1,2-Dichloroethene, ug/l	1.0U
trans-1,2-Dichloroethene, ug/l	1.0U
Ethylbenzene, ug/l	1.0U
Methylene chloride (Dichloromethane), ug/l	5.0U
Tetrachloroethene, ug/l	1.0U
Toluene, ug/l	1.0U
1,1,1-Trichloroethane, ug/l	1.0U
1,1,2-Trichloroethane, ug/l	1.0U
Trichloroethene, ug/l	1.0U
Vinyl chloride, ug/l	1.0U
Xylenes, Total, ug/l	2.0U

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3200 Town Point Drive, Suite 100
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Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120411127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17211A-1	HMW-3	11-06-01/20:15	HFTA03

PARAMETER	17211A-1
Trichlorofluoromethane, ug/l	1.0U
Surrogate - Toluene-d8	106 %
Surrogate - 4-Bromofluorobenzene	90 %
Surrogate - Dibromofluoromethane	90 %
Dilution Factor	1
Analysis Date	11.07.01
Batch ID	1B1107
Mercury (7470)	
Mercury, mg/l	0.00020U
Dilution Factor	1
Prep Date	11.08.01
Analysis Date	11.09.01
Batch ID	1108R
Arsenic (6010)	
Arsenic, mg/l	0.010U
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.12.01
Batch ID	1107K

F-257

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STL Savannah

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Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120411127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17211A-1	HMW-3	11-06-01/20:15	HFTA03

PARAMETER	17211A-1
Barium (6010)	
Barium, mg/l	0.019
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.09.01
Batch ID	1107K
Cadmium (6010)	
Cadmium, mg/l	0.0050U
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.09.01
Batch ID	1107K
Chromium (6010)	
Chromium, mg/l	0.010U
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.09.01
Batch ID	1107K

F-258

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LOG NO: S1-17211A
Received: 07 NOV 01
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Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120411127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17211A-1	HMW-3	11-06-01/20:15	HFTA03

PARAMETER	17211A-1
Lead (6010)	
Lead, mg/l	0.0050U
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.12.01
Batch ID	1107K
Selenium (6010)	
Selenium, mg/l	0.010U
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.09.01
Batch ID	1107K
Silver (6010)	
Silver, mg/l	0.010U
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.09.01
Batch ID	1107K

F-259

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Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120411127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17211-1	SB-43A (0-2)	11-05-01/16:40	HFTA03

PARAMETER	17211-1
Volatiles by GC/MS (8260)	
Acetone, ug/kg dw	60U
Benzene, ug/kg dw	6.0U
2-Butanone (MEK), ug/kg dw	30U
Carbon tetrachloride, ug/kg dw	6.0U
Chlorobenzene, ug/kg dw	6.0U
Chloroethane, ug/kg dw	12U
Chloroform, ug/kg dw	6.0U
Chloromethane, ug/kg dw	12U
1,1-Dichloroethene, ug/kg dw	6.0U
1,2-Dichloroethane, ug/kg dw	6.0U
1,1-Dichloroethane, ug/kg dw	6.0U
cis-1,2-Dichloroethene, ug/kg dw	6.0U
trans-1,2-Dichloroethene, ug/kg dw	6.0U
Ethylbenzene, ug/kg dw	6.0U
Methylene chloride (Dichloromethane), ug/kg dw	6.0U
Tetrachloroethene, ug/kg dw	6.0U
Toluene, ug/kg dw	6.0U
1,1,1-Trichloroethane, ug/kg dw	6.0U
1,1,2-Trichloroethane, ug/kg dw	6.0U
Trichloroethene, ug/kg dw	6.0U
Trichlorofluoromethane, ug/kg dw	6.0U
Vinyl chloride, ug/kg dw	12U

F-260

SEVERN TRENT SERVICES
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Mr. David Wilderman
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3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120411127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17211-1	SB-43A (0-2)	11-05-01/16:40	HFTA03

PARAMETER	17211-1
Xylenes, Total, ug/kg dw	6.0U
Surrogate - Toluene-d8	93 %
Surrogate - 4-Bromofluorobenzene	70 %
Surrogate - Dibromofluoromethane	100 %
Dilution Factor	1
Analysis Date	11.08.01
Batch ID	1M1108
Percent Solids	92

F-261

Serial Number 043903

SEVERN TRENT SERVICES

STL Savannah

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
HUNTER AAF		GA
STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: DAVID WILCHMAN	CLIENT PHONE: 770-421-3400	CLIENT FAX
CLIENT NAME: LAW	CLIENT E-MAIL	
CLIENT ADDRESS: 3200 TOWN POINT DR., SUITE 100, KENNESAW, GA 30144		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ◯
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: SVOCs	TAL METALS (Cold)	Hg	VOCs						NUMBER OF CONTAINERS SUBMITTED	REMARKS
											PRESERVATIVE: HNO3	HNO3	ICE					
11-6-01	2015	HMW-3	G	X				2	1	1	3							7-10 DAYS TAT
11-6-01	1230	HMW-22	G	X							3							24-48 TAT
11-6-01	1030	HMW-21	G	X							3							24-48 TAT
		~~HMW-3~~	~~G~~	~~X~~														
11-6-01	1540	HMW-14R	G	X							3							7-10 DAY TAT
11-6-01	1230	HMW-22 MS	G	X							3							24-48 TAT
11-6-01	1230	HMW-22 MSD	G	X							3							24-48 TAT
11-5-01	1640	SB-43A (0-2)	G	X							4							24-48 TAT
		3-TRIP BLANKS																

RUSH

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	10/22/01	1140		11-6-01	11:45			
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT: YES ◯ NO ◯	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
KC	11/7/01	8AM			1-17211	

ORIGINAL – RETURN TO LABORATORY WITH SAMPLE(S)

SEVERN TRENT SERVICES

STL Savannah

CASE NARRATIVE

SDG# HFTA03
PROJECT#s S117209, S117211A

Acid & Base Neutral Extractables Fraction

The following samples were analyzed according to SW-846 Method 8270C.

SL#	SAMPLE DESCRIPTION	MATRIX
S117209*1	1DW-DECON	Liquid
S117211A*1	HMW-3	Liquid
S117209*2	HMW-100	Liquid

There were no exceptions to the established quality control criteria observed during the analysis of samples in this delivery group.

F-263

SEVERN TRENT SERVICES
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LOG NO: S1-17209
Received: 07 NOV 01
Reported: 26 NOV 01

Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120111127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17209-1	1DW-DECON	11-06-01/21:50	HFTA03
17209-1-DL	1DW-DECON	11-06-01/21:50	HFTA03

PARAMETER	17209-1	17209-1-DL			
Acid & Base Neutral Extractables (8270)					
Acenaphthene, ug/l	10U	---			
Acenaphthylene, ug/l	10U	---			
Anthracene, ug/l	10U	---			
Benzo(a)anthracene, ug/l	10U	---			
Benzo(b)fluoranthene, ug/l	10U	---			
Benzo(k)fluoranthene, ug/l	10U	---			
Benzo(g,h,i)perylene, ug/l	10U	---			
Benzo(a)pyrene, ug/l	10U	---			
bis(2-Ethylhexyl)phthalate, ug/l	34	---			
Chrysene, ug/l	10U	---			
Dibenzo(a,h)anthracene, ug/l	10U	---			
Di-n-butylphthalate, ug/l	10U	---			
1,2-Dichlorobenzene, ug/l	10U	---			
1,3-Dichlorobenzene, ug/l	10U	---			
1,4-Dichlorobenzene, ug/l	10U	---			
Diethylphthalate, ug/l	10U	---			
Fluoranthene, ug/l	10U	---			
Fluorene, ug/l	10U	---			
Indeno(1,2,3-cd)pyrene, ug/l	10U	---			
Naphthalene, ug/l	10U	---			
Phenanthrene, ug/l	10U	---			

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Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120111127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17209-1	1DW-DECON	11-06-01/21:50	HFTA03
17209-1-DL	1DW-DECON	11-06-01/21:50	HFTA03

PARAMETER	17209-1	17209-1-DL	
Pyrene, ug/l	10U	---	
4-Bromophenylphenyl ether, ug/l	10U	---	
Surrogate-NBZ	60 %	---	
Surrogate-2FBP	70 %	---	
Surrogate-TPH	74 %	---	
Dilution Factor	1	---	
Prep Date	11.07.01	---	
Analysis Date	11.11.01	---	
Batch ID	1107E	---	

SEVERN TRENT SERVICES
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Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120111127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17209-1	1DW-DECON	11-06-01/21:50	HFTA03
17209-1-DL	1DW-DECON	11-06-01/21:50	HFTA03

PARAMETER	17209-1	17209-1-DL
Volatiles by GC/MS (8260)		
Acetone, ug/l	5600E	5600D
Benzene, ug/l	4.0U	20U
2-Butanone (MEK), ug/l	40U	200U
Carbon tetrachloride, ug/l	4.0U	20U
Chlorobenzene, ug/l	4.0U	20U
Chloroethane, ug/l	4.0U	20U
Chloroform, ug/l	4.0U	20U
Chloromethane, ug/l	4.0U	20U
1,1-Dichloroethane, ug/l	4.0U	20U
1,2-Dichloroethane, ug/l	4.0U	20U
1,1-Dichloroethene, ug/l	4.0U	20U
cis-1,2-Dichloroethene, ug/l	4.0U	20U
trans-1,2-Dichloroethene, ug/l	4.0U	20U
Ethylbenzene, ug/l	4.0U	20U
Methylene chloride (Dichloromethane), ug/l	20U	100U
Tetrachloroethene, ug/l	4.0U	20U
Toluene, ug/l	4.0U	20U
1,1,1-Trichloroethane, ug/l	4.0U	20U
1,1,2-Trichloroethane, ug/l	4.0U	20U
Trichloroethene, ug/l	4.0U	20U
Vinyl chloride, ug/l	4.0U	20U

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STL Savannah

LOG NO: S1-17209
Received: 07 NOV 01
Reported: 26 NOV 01

Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120111127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17209-1	1DW-DECON	11-06-01/21:50	HFTA03
17209-1-DL	1DW-DECON	11-06-01/21:50	HFTA03

PARAMETER	17209-1	17209-1-DL
Xylenes, Total, ug/l	8.0U	40U
Trichlorofluoromethane, ug/l	4.0U	20U
Surrogate - Toluene-d8	114 %	108 %
Surrogate - 4-Bromofluorobenzene	90 %	90 %
Surrogate - Dibromofluoromethane	94 %	88 %
Dilution Factor	4	20
Analysis Date	11.07.01	11.07.01
Batch ID	1B1107	1B1107
Mercury (7470)		
Mercury, mg/l	0.00020U	---
Dilution Factor	1	---
Prep Date	11.08.01	---
Analysis Date	11.08.01	---
Batch ID	1108R	---
Arsenic (6010)		
Arsenic, mg/l	0.010U	---
Dilution Factor	1	---
Prep Date	11.07.01	---
Analysis Date	11.12.01	---
Batch ID	1107K	---

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Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120111127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17209-1	1DW-DECON	11-06-01/21:50	HFTA03
17209-1-DL	1DW-DECON	11-06-01/21:50	HFTA03

PARAMETER	17209-1	17209-1-DL
Barium (6010)		
Barium, mg/l	0.010U	---
Dilution Factor	1	---
Prep Date	11.07.01	---
Analysis Date	11.09.01	---
Batch ID	1107K	---
Cadmium (6010)		
Cadmium, mg/l	0.0050U	---
Dilution Factor	1	---
Prep Date	11.07.01	---
Analysis Date	11.09.01	---
Batch ID	1107K	---
Chromium (6010)		
Chromium, mg/l	0.010U	---
Dilution Factor	1	---
Prep Date	11.07.01	---
Analysis Date	11.09.01	---
Batch ID	1107K	---

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Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120111127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17209-1	1DW-DECON	11-06-01/21:50	HFTA03
17209-1-DL	1DW-DECON	11-06-01/21:50	HFTA03

PARAMETER	17209-1	17209-1-DL	
Lead (6010)			
Lead, mg/l	0.0056	---	
Dilution Factor	1	---	
Prep Date	11.07.01	---	
Analysis Date	11.12.01	---	
Batch ID	1107K	---	
Selenium (6010)			
Selenium, mg/l	0.010U	---	
Dilution Factor	1	---	
Prep Date	11.07.01	---	
Analysis Date	11.09.01	---	
Batch ID	1107K	---	
Silver (6010)			
Silver, mg/l	0.010U	---	
Dilution Factor	1	---	
Prep Date	11.07.01	---	
Analysis Date	11.09.01	---	
Batch ID	1107K	---	

F-269

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STL Savannah

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Received: 07 NOV 01
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Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120111127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17209-1	1DW-DECON	11-06-01/21:50	HFTA03
17209-1-DL	1DW-DECON	11-06-01/21:50	HFTA03

PARAMETER	17209-1	17209-1-DL		
Oil & Grease (Hexane Extractable Material) (1664)	5.0U			
Dilution Factor	1	---		
Prep Date	11.08.01	---		
Analysis Date	11.12.01	---		
Batch ID	1108A	---		

F-270

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3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120111127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17209-2	HMW-100	11-06-01/12:00	HFTA03

PARAMETER	17209-2
Acid & Base Neutral Extractables (8270)	
Acenaphthene, ug/l	10U
Acenaphthylene, ug/l	10U
Anthracene, ug/l	10U
Benzo(a)anthracene, ug/l	10U
Benzo(b)fluoranthene, ug/l	10U
Benzo(k)fluoranthene, ug/l	10U
Benzo(g,h,i)perylene, ug/l	10U
Benzo(a)pyrene, ug/l	10U
bis(2-Ethylhexyl)phthalate, ug/l	10U
Chrysene, ug/l	10U
Dibenzo(a,h)anthracene, ug/l	10U
Di-n-butylphthalate, ug/l	10U
1,2-Dichlorobenzene, ug/l	10U
1,3-Dichlorobenzene, ug/l	10U
1,4-Dichlorobenzene, ug/l	10U
Diethylphthalate, ug/l	10U
Fluoranthene, ug/l	10U
Fluorene, ug/l	10U
Indeno(1,2,3-cd)pyrene, ug/l	10U
Naphthalene, ug/l	10U
Phenanthrene, ug/l	10U
Pyrene, ug/l	10U

F-271

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Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120111127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17209-2	HMW-100	11-06-01/12:00	HFTA03

PARAMETER	17209-2
4-Bromophenylphenyl ether, ug/l	10U
Surrogate-NBZ	80 %
Surrogate-2FBP	82 %
Surrogate-TPH	66 %
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.11.01
Batch ID	1107E

F-272

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STL Savannah

LOG NO: S1-17209
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Mr. David Wilderman
Law Engineering and Environmental Services/Remediation Group
3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120111127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17209-2	HMW-100	11-06-01/12:00	HFTA03

PARAMETER	17209-2
Volatiles by GC/MS (8260)	
Acetone, ug/l	25U
Benzene, ug/l	4.3
2-Butanone (MEK), ug/l	10U
Carbon tetrachloride, ug/l	1.0U
Chlorobenzene, ug/l	1.0U
Chloroethane, ug/l	1.0U
Chloroform, ug/l	1.0U
Chloromethane, ug/l	1.0U
1,1-Dichloroethane, ug/l	1.0U
1,2-Dichloroethane, ug/l	1.0U
1,1-Dichloroethene, ug/l	1.0U
cis-1,2-Dichloroethene, ug/l	1.0U
trans-1,2-Dichloroethene, ug/l	1.0U
Ethylbenzene, ug/l	1.0U
Methylene chloride (Dichloromethane), ug/l	5.0U
Tetrachloroethene, ug/l	1.0U
Toluene, ug/l	1.0U
1,1,1-Trichloroethane, ug/l	1.0U
1,1,2-Trichloroethane, ug/l	1.0U
Trichloroethene, ug/l	1.0U
Vinyl chloride, ug/l	1.0U
Xylenes, Total, ug/l	2.0U

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Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120111127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17209-2	HMW-100	11-06-01/12:00	HFTA03

PARAMETER	17209-2
Trichlorofluoromethane, ug/l	1.0U
Surrogate - Toluene-d8	106 %
Surrogate - 4-Bromofluorobenzene	90 %
Surrogate - Dibromofluoromethane	86 %
Dilution Factor	1
Analysis Date	11.07.01
Batch ID	1B1107
Mercury (7470)	
Mercury, mg/l	0.00020U
Dilution Factor	1
Prep Date	11.08.01
Analysis Date	11.08.01
Batch ID	1108R
Arsenic (6010)	
Arsenic, mg/l	0.010U
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.12.01
Batch ID	1107K

F-274

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LOG NO: S1-17209
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Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120111127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17209-2	HMW-100	11-06-01/12:00	HFTA03

PARAMETER	17209-2
Barium (6010)	
Barium, mg/l	0.020
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.09.01
Batch ID	1107K
Cadmium (6010)	
Cadmium, mg/l	0.0050U
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.09.01
Batch ID	1107K
Chromium (6010)	
Chromium, mg/l	0.010U
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.09.01
Batch ID	1107K

F-275

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LOG NO: S1-17209
Received: 07 NOV 01
Reported: 26 NOV 01

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3200 Town Point Drive, Suite 100
Kennesaw, GA 30144

Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120111127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17209-2	HMW-100	11-06-01/12:00	HFTA03

PARAMETER	17209-2
Lead (6010)	
Lead, mg/l	0.0050U
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.12.01
Batch ID	1107K
Selenium (6010)	
Selenium, mg/l	0.010U
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.09.01
Batch ID	1107K
Silver (6010)	
Silver, mg/l	0.010U
Dilution Factor	1
Prep Date	11.07.01
Analysis Date	11.09.01
Batch ID	1107K

F-276

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LOG NO: S1-17209
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Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120111127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17209-3	TRIP BLANK	11-06-01	HFTA03

PARAMETER	17209-3
Volatiles by GC/MS (8260)	
Acetone, ug/l	25U
Benzene, ug/l	1.0U
2-Butanone (MEK), ug/l	10U
Carbon tetrachloride, ug/l	1.0U
Chlorobenzene, ug/l	1.0U
Chloroethane, ug/l	1.0U
Chloroform, ug/l	1.0U
Chloromethane, ug/l	1.0U
1,1-Dichloroethane, ug/l	1.0U
1,2-Dichloroethane, ug/l	1.0U
1,1-Dichloroethene, ug/l	1.0U
cis-1,2-Dichloroethene, ug/l	1.0U
trans-1,2-Dichloroethene, ug/l	1.0U
Ethylbenzene, ug/l	1.0U
Methylene chloride (Dichloromethane), ug/l	5.0U
Tetrachloroethene, ug/l	1.0U
Toluene, ug/l	1.0U
1,1,1-Trichloroethane, ug/l	1.0U
1,1,2-Trichloroethane, ug/l	1.0U
Trichloroethene, ug/l	1.0U
Vinyl chloride, ug/l	1.0U
Xylenes, Total, ug/l	2.0U

F-277

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Cl Project No: 12001-9-3411

Project: 12001-9-3411/HAAF
Sampled By: Client
Code: 120111127

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17209-3	TRIP BLANK	11-06-01	HFTA03

PARAMETER	17209-3
Trichlorofluoromethane, ug/l	1.0U
Surrogate - Toluene-d8	106 %
Surrogate - 4-Bromofluorobenzene	92 %
Surrogate - Dibromofluoromethane	88 %
Dilution Factor	1
Analysis Date	11.07.01
Batch ID	1B1107

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

U = Indicates compound was analyzed for but not detected.

E (Organic) = Result exceeded the upper calibration limit.

D = Result is from a secondary dilution.

Angie Weimerskirk

Angie Weimerskirk, Project Manager

F-278

Serial Number 043901

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STL Savannah

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
HUNTER AAF	12001-9-3411	GA
STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: DAVID WILDERMAN	CLIENT PHONE: 770-421-3400	CLIENT FAX
CLIENT NAME: LAW ENG.	CLIENT E-MAIL	
CLIENT ADDRESS: 3200 TOWN POINT DR., SUITE 100, KENNESAW, GA 30144		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE ____ OF ____

STANDARD REPORT DELIVERY ◯
DATE DUE ____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE ____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: SVOCs, OIL&GREASE	REQUIRED ANALYSIS: SVOCs	REQUIRED ANALYSIS: Hg	REQUIRED ANALYSIS: METALS (Array)	REQUIRED ANALYSIS: VOCs	REMARKS
										HNO3	HNO3	HCl	PRESERVATIVE
11-6-01	2150	IDW-DECON	G	X				2		1	1	3	7-10 DAYS TAT
11-6-01	1200	HMW-100	G	X					2	1	1	3	7-10 DAYS TAT
~~11-6-01~~	~~2015~~	~~HMW-3~~	G	X						1			
		TRIP BLANK											

NUMBER OF CONTAINERS SUBMITTED

F-279

RUSH!

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	10/22/01	1196		11/6/01	11:15			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
	11/06/01	8:00	YES ◉ NO ◯		51-17209	

ORIGINAL – RETURN TO LABORATORY WITH SAMPLE(S)

ACCURA ANALYTICAL LABORATORY, INC.

AAL Project #: 29042

Client Project: FDTA on Hunter AAF / DO # 0154

The following items were noted concerning this project:

1. Accura Analytical Laboratory certifies that the results meet all requirements of the NELAC Standards.
2. The data package includes a 2 page case narrative and 40 summary report pages.
3. The samples were received at 2^0C.
4. The "J" qualifiers noted for the Metals-RCRA, Mercury-RCRA, SVOC, and VOC results indicate estimated concentrations that were above the method detection limits, but below the reporting limits.
5. The pH of the samples was <2.0 prior to the VOC analysis.
6. The detection limits were elevated for the following samples due to limited sample volume:

   SVOC-SW-846-8270C
   HSW5
   HSW DUP1

7. There was a hit of Toluene in the Trip Blank 1 sample for the VOC analysis.
8. Batch QC is reported for the Mercury-RCRA analysis.
9. The relative percent difference between the matrix spike and matrix spike duplicate was outside the method specified limit for the following analytes:

   SVOC-SW-846-8270C
   Phenol 2-Chlorophenol 4-Chloro-3-methylphenol 4-Nitrophenol
   Pentachlorophenol

Approved for Quality Assurance Release By:

Camden Robinson
Quality Assurance Officer

Date

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC21686 **Accura Project #:** 29042

Client: US Army Corp of Engrs, Savann. Date Sampled: 10/31/2001

Client Contact: JAMES CUBBEDGE Date Received: 11/2/2001

Client Project Number: D0#0154 Date Reported: 11/6/2001

Client Project Name: FDTA ON HUNTER AAF Sample Matrix: WATER

Client Sample ID: HSW1

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7470A

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	<RL		0.0020

ANALYSIS: Metals - RCRA Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Barium	0.030	J	0.50
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	<RL		0.010
Selenium	<RL		0.050
Silver	<RL		0.050

ANALYSIS: SVOC's - USACE Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
1-Methylnaphthalene	2.2	J	10
2,4,5-Trichlorophenol	<RL		10
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		20
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		10

3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		20
4,6-Dinitro-2-methylphenol	<RL		20
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		10
4-Chloroaniline	<RL		10
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		20
4-Nitrophenol	<RL		10
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		10
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10
Fluoranthene	<RL		10
Fluorene	<RL		10
Hexachlorobenzene	<RL		10
Hexachlorobutadiene	<RL		10
Hexachlorocyclopentadiene	<RL		10
Hexachloroethane	<RL		10
Indeno(1,2,3-cd)pyrene	<RL		10
Isophorone	<RL		10
Naphthalene	4.4	J	10
Nitrobenzene	<RL		10
N-Nitrosodimethylamine	<RL		10
N-Nitroso-di-n-propylamine	<RL		10
N-Nitrosodiphenylamine	<RL		10
Pentachlorophenol	<RL		20
Phenanthrene	<RL		10
Phenol	<RL		10
Pyrene	<RL		10

ANALYSIS: VOC's - USACE Method Ref: 8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		5.0

1,1,1-Trichloroethane	<RL		5.0
1,1,2,2-Tetrachloroethane	<RL		5.0
1,1,2-Trichloroethane	<RL		5.0
1,1-Dichloroethane	<RL		5.0
1,1-Dichloroethene	<RL		5.0
1,1-Dichloropropene	<RL		5.0
1,2,3-Trichlorobenzene	<RL		5.0
1,2,3-Trichloropropane	<RL		5.0
1,2,4-Trichlorobenzene	<RL		5.0
1,2,4-Trimethylbenzene	4.5	J	5.0
1,2-Dibromo-3-Chloropropane	<RL		5.0
1,2-Dibromoethane	<RL		5.0
1,2-Dichlorobenzene	<RL		5.0
1,2-Dichloroethane	<RL		5.0
1,2-Dichloropropane	<RL		5.0
1,3,5-Trimethylbenzene	<RL		5.0
1,3-Dichlorobenzene	<RL		5.0
1,3-Dichloropropane	<RL		5.0
1,4-Dichlorobenzene	<RL		5.0
2,2-Dichloropropane	<RL		5.0
2-Butanone	<RL		5.0
2-Chloroethyl Vinyl Ether	<RL		5.0
2-Chlorotoluene	<RL		5.0
2-Hexanone	<RL		10
4-Chlorotoluene	<RL		5.0
4-Methyl-2-Pentanone	<RL		10
Acetone	<RL		100
Acrolein	<RL		100
Acrylonitrile	<RL		5.0
Benzene	13		5.0
Bromobenzene	<RL		5.0
Bromochloromethane	<RL		5.0
Bromodichloromethane	<RL		5.0
Bromoform	<RL		5.0
Bromomethane	<RL		10
Carbon Disulfide	<RL		5.0
Carbon Tetrachloride	<RL		5.0
Chlorobenzene	<RL		5.0
Chlorodibromomethane	<RL		5.0
Chloroethane	<RL		5.0
Chloroform	<RL		5.0
Chloromethane	<RL		10
cis-1,2-Dichloroethene	<RL		5.0
cis-1,3-Dichloropropene	<RL		5.0
cis-1,4-Dichloro-2-Butene	<RL		5.0
Dibromomethane	<RL		5.0
Dichlorodifluoromethane	<RL		10
Ethylbenzene	8.5		5.0
Hexachlorobutadiene	<RL		5.0
Iodomethane	<RL		5.0
Isopropylbenzene	1.9	J	5.0
Methyl Methacrylate	<RL		5.0
Methylene Chloride	<RL		5.0
Methyl-tert-Butyl Ether	<RL		5.0
Naphthalene	9.9		5.0
n-Butylbenzene	<RL		5.0

n-Propylbenzene	2.1	J	5.0
p-Isopropyltoluene	<RL		5.0
sec-Butylbenzene	<RL		5.0
Styrene	<RL		5.0
tert-butylbenzene	<RL		5.0
Tetrachloroethene	<RL		5.0
Toluene	14		5.0
trans-1,2-Dichloroethene	<RL		5.0
trans-1,3-Dichloropropene	<RL		5.0
trans-1,4-Dichloro-2-Butene	<RL		5.0
Trichloroethene	<RL		5.0
Trichlorofluoromethane	<RL		5.0
Vinyl Acetete	<RL		50
Vinyl Chloride	<RL		2.0
Xylenes (Total)	67		5.0

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	89		
4-Bromofluorobenzene (80-120)	102		
Toluene-d8 (80-119)	101		

ANALYSIS: X SVOC(3510) Sample Surr. (Water Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 19-141)	68		
2-Fluorobiphenyl	(Range 40-106)	72		
2-Fluorophenol	(Range 12-75)	39		
Nitrobenzene-d5	(Range 11-135)	123		
Phenol-d6	(Range 9-71)	25		
p-Terphenyl-d14	(Range 34-128)	71		

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LABORATORY REPORT

Accura Sample ID #: AC21685 **Accura Project #:** 29042

Client: US Army Corp of Engrs, Savann. Date Sampled: 10/31/2001

Client Contact: JAMES CUBBEDGE Date Received: 11/2/2001

Client Project Number: D0#0154 Date Reported: 11/6/2001

Client Project Name: FDTA ON HUNTER AAF Sample Matrix: WATER

Client Sample ID: HSW2

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7470A

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	<RL		0.0020

ANALYSIS: Metals - RCRA Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Barium	0.025	J	0.50
Cadmium	<RL		0.0050
Chromium	0.00090	J	0.050
Lead	<RL		0.010
Selenium	<RL		0.050
Silver	<RL		0.050

ANALYSIS: SVOC's - USACE Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
1-Methylnaphthalene	<RL		10
2,4,5-Trichlorophenol	<RL		10
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		20
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		10

3,4-Methylphenol	<RL	20
3-Nitroaniline	<RL	20
4,6-Dinitro-2-methylphenol	<RL	20
4-Bromophenyl phenyl ether	<RL	10
4-Chloro-3-methylphenol	<RL	10
4-Chloroaniline	<RL	10
4-Chlorophenyl phenyl ether	<RL	10
4-Nitroaniline	<RL	20
4-Nitrophenol	<RL	10
Acenaphthene	<RL	10
Acenaphthylene	<RL	10
Anthracene	<RL	10
Benzidine	<RL	10
Benzo(a)anthracene	<RL	10
Benzo(a)pyrene	<RL	10
Benzo(b)fluoranthene	<RL	10
Benzo(g,h,i)perylene	<RL	10
Benzo(k)fluoranthene	<RL	10
Benzoic acid	<RL	50
Benzyl alcohol	<RL	10
bis(2-Chloroethoxy)methane	<RL	10
bis(2-Chloroethyl)ether	<RL	10
bis(2-Chloroisopropyl)ether	<RL	10
bis(2-Ethylhexyl)phthalate	<RL	10
Butyl benzyl phthalate	<RL	10
Carbazole	<RL	10
Chrysene	<RL	10
Dibenz(a,h)anthracene	<RL	10
Dibenzofuran	<RL	10
Diethylphthalate	<RL	10
Dimethylphthalate	<RL	10
Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	20
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - USACE Method Ref: 8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		5.0

1,1,1-Trichloroethane	<RL		5.0
1,1,2,2-Tetrachloroethane	<RL		5.0
1,1,2-Trichloroethane	<RL		5.0
1,1-Dichloroethane	<RL		5.0
1,1-Dichloroethene	<RL		5.0
1,1-Dichloropropene	<RL		5.0
1,2,3-Trichlorobenzene	<RL		5.0
1,2,3-Trichloropropane	<RL		5.0
1,2,4-Trichlorobenzene	<RL		5.0
1,2,4-Trimethylbenzene	<RL		5.0
1,2-Dibromo-3-Chloropropane	<RL		5.0
1,2-Dibromoethane	<RL		5.0
1,2-Dichlorobenzene	<RL		5.0
1,2-Dichloroethane	<RL		5.0
1,2-Dichloropropane	<RL		5.0
1,3,5-Trimethylbenzene	<RL		5.0
1,3-Dichlorobenzene	<RL		5.0
1,3-Dichloropropane	<RL		5.0
1,4-Dichlorobenzene	<RL		5.0
2,2-Dichloropropane	<RL		5.0
2-Butanone	<RL		5.0
2-Chloroethyl Vinyl Ether	<RL		5.0
2-Chlorotoluene	<RL		5.0
2-Hexanone	<RL		10
4-Chlorotoluene	<RL		5.0
4-Methyl-2-Pentanone	<RL		10
Acetone	3.3	J	100
Acrolein	<RL		100
Acrylonitrile	<RL		5.0
Benzene	<RL		5.0
Bromobenzene	<RL		5.0
Bromochloromethane	<RL		5.0
Bromodichloromethane	<RL		5.0
Bromoform	<RL		5.0
Bromomethane	<RL		10
Carbon Disulfide	<RL		5.0
Carbon Tetrachloride	<RL		5.0
Chlorobenzene	<RL		5.0
Chlorodibromomethane	<RL		5.0
Chloroethane	<RL		5.0
Chloroform	<RL		5.0
Chloromethane	<RL		10
cis-1,2-Dichloroethene	<RL		5.0
cis-1,3-Dichloropropene	<RL		5.0
cis-1,4-Dichloro-2-Butene	<RL		5.0
Dibromomethane	<RL		5.0
Dichlorodifluoromethane	<RL		10
Ethylbenzene	<RL		5.0
Hexachlorobutadiene	<RL		5.0
Iodomethane	<RL		5.0
Isopropylbenzene	<RL		5.0
Methyl Methacrylate	<RL		5.0
Methylene Chloride	<RL		5.0
Methyl-tert-Butyl Ether	<RL		5.0
Naphthalene	<RL		5.0
n-Butylbenzene	<RL		5.0

n-Propylbenzene	<RL	5.0
p-Isopropyltoluene	<RL	5.0
sec-Butylbenzene	<RL	5.0
Styrene	<RL	5.0
tert-butylbenzene	<RL	5.0
Tetrachloroethene	<RL	5.0
Toluene	<RL	5.0
trans-1,2-Dichloroethene	<RL	5.0
trans-1,3-Dichloropropene	<RL	5.0
trans-1,4-Dichloro-2-Butene	<RL	5.0
Trichloroethene	<RL	5.0
Trichlorofluoromethane	<RL	5.0
Vinyl Acetete	<RL	50
Vinyl Chloride	<RL	2.0
Xylenes (Total)	<RL	5.0

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	90		
4-Bromofluorobenzene (80-120)	112		
Toluene-d8 (80-119)	102		

ANALYSIS: X SVOC(3510) Sample Surr. (Water Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 19-141)	50		
2-Fluorobiphenyl (Range 40-106)	59		
2-Fluorophenol (Range 12-75)	28		
Nitrobenzene-d5 (Range 11-135)	64		
Phenol-d6 (Range 9-71)	19		
p-Terphenyl-d14 (Range 34-128)	60		

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LABORATORY REPORT

Accura Sample ID #: AC21683 **Accura Project #:** 29042

Client: US Army Corp of Engrs, Savann. Date Sampled: 10/31/2001

Client Contact: JAMES CUBBEDGE Date Received: 11/2/2001

Client Project Number: D0#0154 Date Reported: 11/6/2001

Client Project Name: FDTA ON HUNTER AAF Sample Matrix: WATER

Client Sample ID: HSW3

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7470A

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	<RL		0.0020

ANALYSIS: Metals - RCRA Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Barium	0.029	J	0.50
Cadmium	<RL		0.0050
Chromium	0.0010	J	0.050
Lead	<RL		0.010
Selenium	<RL		0.050
Silver	<RL		0.050

ANALYSIS: SVOC's - USACE Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/4/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
1-Methylnaphthalene	<RL		10
2,4,5-Trichlorophenol	<RL		10
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		20
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		10

3,4-Methylphenol	<RL	20
3-Nitroaniline	<RL	20
4,6-Dinitro-2-methylphenol	<RL	20
4-Bromophenyl phenyl ether	<RL	10
4-Chloro-3-methylphenol	<RL	10
4-Chloroaniline	<RL	10
4-Chlorophenyl phenyl ether	<RL	10
4-Nitroaniline	<RL	20
4-Nitrophenol	<RL	10
Acenaphthene	<RL	10
Acenaphthylene	<RL	10
Anthracene	<RL	10
Benzidine	<RL	10
Benzo(a)anthracene	<RL	10
Benzo(a)pyrene	<RL	10
Benzo(b)fluoranthene	<RL	10
Benzo(g,h,i)perylene	<RL	10
Benzo(k)fluoranthene	<RL	10
Benzoic acid	<RL	50
Benzyl alcohol	<RL	10
bis(2-Chloroethoxy)methane	<RL	10
bis(2-Chloroethyl)ether	<RL	10
bis(2-Chloroisopropyl)ether	<RL	10
bis(2-Ethylhexyl)phthalate	<RL	10
Butyl benzyl phthalate	<RL	10
Carbazole	<RL	10
Chrysene	<RL	10
Dibenz(a,h)anthracene	<RL	10
Dibenzofuran	<RL	10
Diethylphthalate	<RL	10
Dimethylphthalate	<RL	10
Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	20
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - USACE Method Ref: 8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		5.0

1,1,1-Trichloroethane	<RL		5.0
1,1,2,2-Tetrachloroethane	<RL		5.0
1,1,2-Trichloroethane	<RL		5.0
1,1-Dichloroethane	<RL		5.0
1,1-Dichloroethene	<RL		5.0
1,1-Dichloropropene	<RL		5.0
1,2,3-Trichlorobenzene	<RL		5.0
1,2,3-Trichloropropane	<RL		5.0
1,2,4-Trichlorobenzene	<RL		5.0
1,2,4-Trimethylbenzene	<RL		5.0
1,2-Dibromo-3-Chloropropane	<RL		5.0
1,2-Dibromoethane	<RL		5.0
1,2-Dichlorobenzene	<RL		5.0
1,2-Dichloroethane	<RL		5.0
1,2-Dichloropropane	<RL		5.0
1,3,5-Trimethylbenzene	<RL		5.0
1,3-Dichlorobenzene	<RL		5.0
1,3-Dichloropropane	<RL		5.0
1,4-Dichlorobenzene	<RL		5.0
2,2-Dichloropropane	<RL		5.0
2-Butanone	<RL		5.0
2-Chloroethyl Vinyl Ether	<RL		5.0
2-Chlorotoluene	<RL		5.0
2-Hexanone	<RL		10
4-Chlorotoluene	<RL		5.0
4-Methyl-2-Pentanone	<RL		10
Acetone	2.7	J	100
Acrolein	<RL		100
Acrylonitrile	<RL		5.0
Benzene	<RL		5.0
Bromobenzene	<RL		5.0
Bromochloromethane	<RL		5.0
Bromodichloromethane	<RL		5.0
Bromoform	<RL		5.0
Bromomethane	<RL		10
Carbon Disulfide	<RL		5.0
Carbon Tetrachloride	<RL		5.0
Chlorobenzene	<RL		5.0
Chlorodibromomethane	<RL		5.0
Chloroethane	<RL		5.0
Chloroform	<RL		5.0
Chloromethane	<RL		10
cis-1,2-Dichloroethene	<RL		5.0
cis-1,3-Dichloropropene	<RL		5.0
cis-1,4-Dichloro-2-Butene	<RL		5.0
Dibromomethane	<RL		5.0
Dichlorodifluoromethane	<RL		10
Ethylbenzene	<RL		5.0
Hexachlorobutadiene	<RL		5.0
Iodomethane	<RL		5.0
Isopropylbenzene	<RL		5.0
Methyl Methacrylate	<RL		5.0
Methylene Chloride	<RL		5.0
Methyl-tert-Butyl Ether	<RL		5.0
Naphthalene	<RL		5.0
n-Butylbenzene	<RL		5.0

n-Propylbenzene	<RL	5.0
p-Isopropyltoluene	<RL	5.0
sec-Butylbenzene	<RL	5.0
Styrene	<RL	5.0
tert-butylbenzene	<RL	5.0
Tetrachloroethene	<RL	5.0
Toluene	<RL	5.0
trans-1,2-Dichloroethene	<RL	5.0
trans-1,3-Dichloropropene	<RL	5.0
trans-1,4-Dichloro-2-Butene	<RL	5.0
Trichloroethene	<RL	5.0
Trichlorofluoromethane	<RL	5.0
Vinyl Acetete	<RL	50
Vinyl Chloride	<RL	2.0
Xylenes (Total)	<RL	5.0

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	96		
4-Bromofluorobenzene (80-120)	114		
Toluene-d8 (80-119)	108		

ANALYSIS: X SVOC(3510) Sample Surr. (Water Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/4/2001 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 19-141)	46		
2-Fluorobiphenyl	(Range 40-106)	58		
2-Fluorophenol	(Range 12-75)	23		
Nitrobenzene-d5	(Range 11-135)	55		
Phenol-d6	(Range 9-71)	16		
p-Terphenyl-d14	(Range 34-128)	65		

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LABORATORY REPORT

Accura Sample ID #: AC21688 **Accura Project #:** 29042

Client: US Army Corp of Engrs, Savann. Date Sampled: 10/31/2001

Client Contact: JAMES CUBBEDGE Date Received: 11/2/2001

Client Project Number: D0#0154 Date Reported: 11/6/2001

Client Project Name: FDTA ON HUNTER AAF Sample Matrix: WATER

Client Sample ID: HSW4

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7470A

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	<RL		0.0020

ANALYSIS: Metals - RCRA Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Barium	0.024	J	0.50
Cadmium	<RL		0.0050
Chromium	0.00080	J	0.050
Lead	<RL		0.010
Selenium	<RL		0.050
Silver	<RL		0.050

ANALYSIS: SVOC's - USACE Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
1-Methylnaphthalene	<RL		10
2,4,5-Trichlorophenol	<RL		10
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		20
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		10

F-293

3,4-Methylphenol	<RL	20
3-Nitroaniline	<RL	20
4,6-Dinitro-2-methylphenol	<RL	20
4-Bromophenyl phenyl ether	<RL	10
4-Chloro-3-methylphenol	<RL	10
4-Chloroaniline	<RL	10
4-Chlorophenyl phenyl ether	<RL	10
4-Nitroaniline	<RL	20
4-Nitrophenol	<RL	10
Acenaphthene	<RL	10
Acenaphthylene	<RL	10
Anthracene	<RL	10
Benzidine	<RL	10
Benzo(a)anthracene	<RL	10
Benzo(a)pyrene	<RL	10
Benzo(b)fluoranthene	<RL	10
Benzo(g,h,i)perylene	<RL	10
Benzo(k)fluoranthene	<RL	10
Benzoic acid	<RL	50
Benzyl alcohol	<RL	10
bis(2-Chloroethoxy)methane	<RL	10
bis(2-Chloroethyl)ether	<RL	10
bis(2-Chloroisopropyl)ether	<RL	10
bis(2-Ethylhexyl)phthalate	<RL	10
Butyl benzyl phthalate	<RL	10
Carbazole	<RL	10
Chrysene	<RL	10
Dibenz(a,h)anthracene	<RL	10
Dibenzofuran	<RL	10
Diethylphthalate	<RL	10
Dimethylphthalate	<RL	10
Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	20
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - USACE Method Ref: 8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		5.0

1,1,1-Trichloroethane	<RL		5.0
1,1,2,2-Tetrachloroethane	<RL		5.0
1,1,2-Trichloroethane	<RL		5.0
1,1-Dichloroethane	<RL		5.0
1,1-Dichloroethene	<RL		5.0
1,1-Dichloropropene	<RL		5.0
1,2,3-Trichlorobenzene	<RL		5.0
1,2,3-Trichloropropane	<RL		5.0
1,2,4-Trichlorobenzene	<RL		5.0
1,2,4-Trimethylbenzene	<RL		5.0
1,2-Dibromo-3-Chloropropane	<RL		5.0
1,2-Dibromoethane	<RL		5.0
1,2-Dichlorobenzene	<RL		5.0
1,2-Dichloroethane	<RL		5.0
1,2-Dichloropropane	<RL		5.0
1,3,5-Trimethylbenzene	<RL		5.0
1,3-Dichlorobenzene	<RL		5.0
1,3-Dichloropropane	<RL		5.0
1,4-Dichlorobenzene	<RL		5.0
2,2-Dichloropropane	<RL		5.0
2-Butanone	<RL		5.0
2-Chloroethyl Vinyl Ether	<RL		5.0
2-Chlorotoluene	<RL		5.0
2-Hexanone	1.1	J	10
4-Chlorotoluene	<RL		5.0
4-Methyl-2-Pentanone	<RL		10
Acetone	<RL		100
Acrolein	<RL		100
Acrylonitrile	<RL		5.0
Benzene	<RL		5.0
Bromobenzene	<RL		5.0
Bromochloromethane	<RL		5.0
Bromodichloromethane	<RL		5.0
Bromoform	<RL		5.0
Bromomethane	<RL		10
Carbon Disulfide	<RL		5.0
Carbon Tetrachloride	<RL		5.0
Chlorobenzene	<RL		5.0
Chlorodibromomethane	<RL		5.0
Chloroethane	<RL		5.0
Chloroform	<RL		5.0
Chloromethane	<RL		10
cis-1,2-Dichloroethene	<RL		5.0
cis-1,3-Dichloropropene	<RL		5.0
cis-1,4-Dichloro-2-Butene	<RL		5.0
Dibromomethane	<RL		5.0
Dichlorodifluoromethane	<RL		10
Ethylbenzene	<RL		5.0
Hexachlorobutadiene	<RL		5.0
Iodomethane	<RL		5.0
Isopropylbenzene	<RL		5.0
Methyl Methacrylate	<RL		5.0
Methylene Chloride	<RL		5.0
Methyl-tert-Butyl Ether	<RL		5.0
Naphthalene	<RL		5.0
n-Butylbenzene	<RL		5.0

n-Propylbenzene	<RL		5.0
p-Isopropyltoluene	<RL		5.0
sec-Butylbenzene	<RL		5.0
Styrene	<RL		5.0
tert-butylbenzene	<RL		5.0
Tetrachloroethene	<RL		5.0
Toluene	1.1	J	5.0
trans-1,2-Dichloroethene	<RL		5.0
trans-1,3-Dichloropropene	<RL		5.0
trans-1,4-Dichloro-2-Butene	<RL		5.0
Trichloroethene	<RL		5.0
Trichlorofluoromethane	<RL		5.0
Vinyl Acetete	<RL		50
Vinyl Chloride	<RL		2.0
Xylenes (Total)	<RL		5.0

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	95		
4-Bromofluorobenzene (80-120)	112		
Toluene-d8 (80-119)	103		

ANALYSIS: X SVOC(3510) Sample Surr. (Water Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 19-141)	54		
2-Fluorobiphenyl	(Range 40-106)	60		
2-Fluorophenol	(Range 12-75)	29		
Nitrobenzene-d5	(Range 11-135)	63		
Phenol-d6	(Range 9-71)	20		
p-Terphenyl-d14	(Range 34-128)	61		

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LABORATORY REPORT

Accura Sample ID #: AC21689 **Accura Project #:** 29042

Client: US Army Corp of Engrs, Savann.

Client Contact: JAMES CUBBEDGE

Client Project Number: D0#0154

Client Project Name: FDTA ON HUNTER AAF

Client Sample ID: HSW5

Date Sampled: 10/31/2001
Date Received: 11/2/2001
Date Reported: 11/6/2001
Sample Matrix: WATER

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7470A

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	<RL		0.0020

ANALYSIS: Metals - RCRA Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Barium	0.024	J	0.50
Cadmium	0.00030	J	0.0050
Chromium	0.013	J	0.050
Lead	<RL		0.010
Selenium	<RL		0.050
Silver	<RL		0.050

ANALYSIS: SVOC's - USACE Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		11
1,2-Dichlorobenzene	<RL		11
1,3-Dichlorobenzene	<RL		11
1,4-Dichlorobenzene	<RL		11
1-Methylnaphthalene	<RL		11
2,4,5-Trichlorophenol	<RL		11
2,4,6-Trichlorophenol	<RL		11
2,4-Dichlorophenol	<RL		11
2,4-Dimethylphenol	<RL		11
2,4-Dinitrophenol	<RL		55
2,4-Dinitrotoluene	<RL		11
2,6-Dinitrotoluene	<RL		11
2-Chloronaphthalene	<RL		11
2-Chlorophenol	<RL		11
2-Methylnaphthalene	<RL		11
2-Methylphenol	<RL		11
2-Nitroaniline	<RL		22
2-Nitrophenol	<RL		11
3,3'-Dichlorobenzidine	<RL		11

3,4-Methylphenol	<RL	22
3-Nitroaniline	<RL	22
4,6-Dinitro-2-methylphenol	<RL	22
4-Bromophenyl phenyl ether	<RL	11
4-Chloro-3-methylphenol	<RL	11
4-Chloroaniline	<RL	11
4-Chlorophenyl p henyl ether	<RL	11
4-Nitroaniline	<RL	22
4-Nitrophenol	<RL	11
Acenaphthene	<RL	11
Acenaphthylene	<RL	11
Anthracene	<RL	11
Benzidine	<RL	11
Benzo(a)anthracene	<RL	11
Benzo(a)pyrene	<RL	11
Benzo(b)fluoranthene	<RL	11
Benzo(g,h,i)perylene	<RL	11
Benzo(k)fluoranthene	<RL	11
Benzoic acid	<RL	55
Benzyl alcohol	<RL	11
bis(2-Chloroethoxy)methane	<RL	11
bis(2-Chloroethyl)ether	<RL	11
bis(2-Chloroisopropyl)ether	<RL	11
bis(2-Ethylhexyl)phthalate	<RL	11
Butyl benzyl phthalate	<RL	11
Carbazole	<RL	11
Chrysene	<RL	11
Dibenz(a,h)anthracene	<RL	11
Dibenzofuran	<RL	11
Diethylphthalate	<RL	11
Dimethylphthalate	<RL	11
Di-n-butylphthalate	<RL	11
Di-n-octylphthalate	<RL	11
Fluoranthene	<RL	11
Fluorene	<RL	11
Hexachlorobenzene	<RL	11
Hexachlorobutadiene	<RL	11
Hexachlorocyclopentadiene	<RL	11
Hexachloroethane	<RL	11
Indeno(1,2,3-cd)pyrene	<RL	11
Isophorone	<RL	11
Naphthalene	<RL	11
Nitrobenzene	<RL	11
N-Nitrosodimethylamine	<RL	11
N-Nitroso-di-n-propylamine	<RL	11
N-Nitrosodiphenylamine	<RL	11
Pentachlorophenol	<RL	22
Phenanthrene	<RL	11
Phenol	<RL	11
Pyrene	<RL	11

ANALYSIS: VOC's - USACE Method Ref: 8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		5.0

1,1,1-Trichloroethane	<RL	5.0
1,1,2,2-Tetrachloroethane	<RL	5.0
1,1,2-Trichloroethane	<RL	5.0
1,1-Dichloroethane	<RL	5.0
1,1-Dichloroethene	<RL	5.0
1,1-Dichloropropene	<RL	5.0
1,2,3-Trichlorobenzene	<RL	5.0
1,2,3-Trichloropropane	<RL	5.0
1,2,4-Trichlorobenzene	<RL	5.0
1,2,4-Trimethylbenzene	<RL	5.0
1,2-Dibromo-3-Chloropropane	<RL	5.0
1,2-Dibromoethane	<RL	5.0
1,2-Dichlorobenzene	<RL	5.0
1,2-Dichloroethane	<RL	5.0
1,2-Dichloropropane	<RL	5.0
1,3,5-Trimethylbenzene	<RL	5.0
1,3-Dichlorobenzene	<RL	5.0
1,3-Dichloropropane	<RL	5.0
1,4-Dichlorobenzene	<RL	5.0
2,2-Dichloropropane	<RL	5.0
2-Butanone	<RL	5.0
2-Chloroethyl Vinyl Ether	<RL	5.0
2-Chlorotoluene	<RL	5.0
2-Hexanone	<RL	10
4-Chlorotoluene	<RL	5.0
4-Methyl-2-Pentanone	<RL	10
Acetone	<RL	100
Acrolein	<RL	100
Acrylonitrile	<RL	5.0
Benzene	<RL	5.0
Bromobenzene	<RL	5.0
Bromochloromethane	<RL	5.0
Bromodichloromethane	<RL	5.0
Bromoform	<RL	5.0
Bromomethane	<RL	10
Carbon Disulfide	<RL	5.0
Carbon Tetrachloride	<RL	5.0
Chlorobenzene	<RL	5.0
Chlorodibromomethane	<RL	5.0
Chloroethane	<RL	5.0
Chloroform	<RL	5.0
Chloromethane	<RL	10
cis-1,2-Dichloroethene	<RL	5.0
cis-1,3-Dichloropropene	<RL	5.0
cis-1,4-Dichloro-2-Butene	<RL	5.0
Dibromomethane	<RL	5.0
Dichlorodifluoromethane	<RL	10
Ethylbenzene	<RL	5.0
Hexachlorobutadiene	<RL	5.0
Iodomethane	<RL	5.0
Isopropylbenzene	<RL	5.0
Methyl Methacrylate	<RL	5.0
Methylene Chloride	<RL	5.0
Methyl-tert-Butyl Ether	<RL	5.0
Naphthalene	<RL	5.0
n-Butylbenzene	<RL	5.0

n-Propylbenzene	<RL	5.0
p-Isopropyltoluene	<RL	5.0
sec-Butylbenzene	<RL	5.0
Styrene	<RL	5.0
tert-butylbenzene	<RL	5.0
Tetrachloroethene	<RL	5.0
Toluene	<RL	5.0
trans-1,2-Dichloroethene	<RL	5.0
trans-1,3-Dichloropropene	<RL	5.0
trans-1,4-Dichloro-2-Butene	<RL	5.0
Trichloroethene	<RL	5.0
Trichlorofluoromethane	<RL	5.0
Vinyl Acetete	<RL	50
Vinyl Chloride	<RL	2.0
Xylenes (Total)	<RL	5.0

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	99		
4-Bromofluorobenzene (80-120)	119		
Toluene-d8 (80-119)	110		

ANALYSIS: X SVOC(3510) Sample Surr. (Water Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 19-141)	62		
2-Fluorobiphenyl	(Range 40-106)	71		
2-Fluorophenol	(Range 12-75)	33		
Nitrobenzene-d5	(Range 11-135)	69		
Phenol-d6	(Range 9-71)	23		
p-Terphenyl-d14	(Range 34-128)	77		

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LABORATORY REPORT

Accura Sample ID #: **AC21684** **Accura Project #:** **29042**

Client: **US Army Corp of Engrs, Savann.** Date Sampled: 10/31/2001

Client Contact: JAMES CUBBEDGE Date Received: 11/2/2001

Client Project Number: D0#0154 Date Reported: 11/6/2001

Client Project Name: FDTA ON HUNTER AAF Sample Matrix: WATER

Client Sample ID: **HSW6**

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7470A

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.00087	J	0.0020

ANALYSIS: Metals - RCRA Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Barium	0.025	J	0.50
Cadmium	<RL		0.0050
Chromium	0.0013	J	0.050
Lead	<RL		0.010
Selenium	<RL		0.050
Silver	<RL		0.050

ANALYSIS: SVOC's - USACE Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/4/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
1-Methylnaphthalene	<RL		10
2,4,5-Trichlorophenol	<RL		10
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		20
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		10

3,4-Methylphenol	<RL	20
3-Nitroaniline	<RL	20
4,6-Dinitro-2-methylphenol	<RL	20
4-Bromophenyl phenyl ether	<RL	10
4-Chloro-3-methylphenol	<RL	10
4-Chloroaniline	<RL	10
4-Chlorophenyl phenyl ether	<RL	10
4-Nitroaniline	<RL	20
4-Nitrophenol	<RL	10
Acenaphthene	<RL	10
Acenaphthylene	<RL	10
Anthracene	<RL	10
Benzidine	<RL	10
Benzo(a)anthracene	<RL	10
Benzo(a)pyrene	<RL	10
Benzo(b)fluoranthene	<RL	10
Benzo(g,h,i)perylene	<RL	10
Benzo(k)fluoranthene	<RL	10
Benzoic acid	<RL	50
Benzyl alcohol	<RL	10
bis(2-Chloroethoxy)methane	<RL	10
bis(2-Chloroethyl)ether	<RL	10
bis(2-Chloroisopropyl)ether	<RL	10
bis(2-Ethylhexyl)phthalate	<RL	10
Butyl benzyl phthalate	<RL	10
Carbazole	<RL	10
Chrysene	<RL	10
Dibenz(a,h)anthracene	<RL	10
Dibenzofuran	<RL	10
Diethylphthalate	<RL	10
Dimethylphthalate	<RL	10
Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	20
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - USACE Method Ref: 8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		5.0

Client Sample ID: HSW6 AALSample ID #: AC21684 Accura Project #: 29042

F-302

1,1,1-Trichloroethane	<RL	5.0
1,1,2,2-Tetrachloroethane	<RL	5.0
1,1,2-Trichloroethane	<RL	5.0
1,1-Dichloroethane	<RL	5.0
1,1-Dichloroethene	<RL	5.0
1,1-Dichloropropene	<RL	5.0
1,2,3-Trichlorobenzene	<RL	5.0
1,2,3-Trichloropropane	<RL	5.0
1,2,4-Trichlorobenzene	<RL	5.0
1,2,4-Trimethylbenzene	<RL	5.0
1,2-Dibromo-3-Chloropropane	<RL	5.0
1,2-Dibromoethane	<RL	5.0
1,2-Dichlorobenzene	<RL	5.0
1,2-Dichloroethane	<RL	5.0
1,2-Dichloropropane	<RL	5.0
1,3,5-Trimethylbenzene	<RL	5.0
1,3-Dichlorobenzene	<RL	5.0
1,3-Dichloropropane	<RL	5.0
1,4-Dichlorobenzene	<RL	5.0
2,2-Dichloropropane	<RL	5.0
2-Butanone	<RL	5.0
2-Chloroethyl Vinyl Ether	<RL	5.0
2-Chlorotoluene	<RL	5.0
2-Hexanone	<RL	10
4-Chlorotoluene	<RL	5.0
4-Methyl-2-Pentanone	<RL	10
Acetone	<RL	100
Acrolein	<RL	100
Acrylonitrile	<RL	5.0
Benzene	<RL	5.0
Bromobenzene	<RL	5.0
Bromochloromethane	<RL	5.0
Bromodichloromethane	<RL	5.0
Bromoform	<RL	5.0
Bromomethane	<RL	10
Carbon Disulfide	<RL	5.0
Carbon Tetrachloride	<RL	5.0
Chlorobenzene	<RL	5.0
Chlorodibromomethane	<RL	5.0
Chloroethane	<RL	5.0
Chloroform	<RL	5.0
Chloromethane	<RL	10
cis-1,2-Dichloroethene	<RL	5.0
cis-1,3-Dichloropropene	<RL	5.0
cis-1,4-Dichloro-2-Butene	<RL	5.0
Dibromomethane	<RL	5.0
Dichlorodifluoromethane	<RL	10
Ethylbenzene	<RL	5.0
Hexachlorobutadiene	<RL	5.0
Iodomethane	<RL	5.0
Isopropylbenzene	<RL	5.0
Methyl Methacrylate	<RL	5.0
Methylene Chloride	<RL	5.0
Methyl-tert-Butyl Ether	<RL	5.0
Naphthalene	<RL	5.0
n-Butylbenzene	<RL	5.0

n-Propylbenzene	<RL	5.0
p-Isopropyltoluene	<RL	5.0
sec-Butylbenzene	<RL	5.0
Styrene	<RL	5.0
tert-butylbenzene	<RL	5.0
Tetrachloroethene	<RL	5.0
Toluene	<RL	5.0
trans-1,2-Dichloroethene	<RL	5.0
trans-1,3-Dichloropropene	<RL	5.0
trans-1,4-Dichloro-2-Butene	<RL	5.0
Trichloroethene	<RL	5.0
Trichlorofluoromethane	<RL	5.0
Vinyl Acetete	<RL	50
Vinyl Chloride	<RL	2.0
Xylenes (Total)	<RL	5.0

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	94		
4-Bromofluorobenzene (80-120)	115		
Toluene-d8 (80-119)	106		

ANALYSIS: X SVOC(3510) Sample Surr. (Water Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/4/2001 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 19-141)	49		
2-Fluorobiphenyl	(Range 40-106)	65		
2-Fluorophenol	(Range 12-75)	29		
Nitrobenzene-d5	(Range 11-135)	66		
Phenol-d6	(Range 9-71)	20		
p-Terphenyl-d14	(Range 34-128)	78		

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LABORATORY REPORT

Accura Sample ID #: AC21687 **Accura Project #:** 29042

Client: US Army Corp of Engrs, Savann. Date Sampled: 10/31/2001

Client Contact: JAMES CUBBEDGE Date Received: 11/2/2001

Client Project Number: D0#0154 Date Reported: 11/6/2001

Client Project Name: FDTA ON HUNTER AAF Sample Matrix: WATER

Client Sample ID: **TRIP BLANK 2**

ANALYSIS: VOC's - USACE Method Ref: 8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		5.0
1,1,1-Trichloroethane	<RL		5.0
1,1,2,2-Tetrachloroethane	<RL		5.0
1,1,2-Trichloroethane	<RL		5.0
1,1-Dichloroethane	<RL		5.0
1,1-Dichloroethene	<RL		5.0
1,1-Dichloropropene	<RL		5.0
1,2,3-Trichlorobenzene	<RL		5.0
1,2,3-Trichloropropane	<RL		5.0
1,2,4-Trichlorobenzene	<RL		5.0
1,2,4-Trimethylbenzene	<RL		5.0
1,2-Dibromo-3-Chloropropane	<RL		5.0
1,2-Dibromoethane	<RL		5.0
1,2-Dichlorobenzene	<RL		5.0
1,2-Dichloroethane	<RL		5.0
1,2-Dichloropropane	<RL		5.0
1,3,5-Trimethylbenzene	<RL		5.0
1,3-Dichlorobenzene	<RL		5.0
1,3-Dichloropropane	<RL		5.0
1,4-Dichlorobenzene	<RL		5.0
2,2-Dichloropropane	<RL		5.0
2-Butanone	<RL		5.0
2-Chloroethyl Vinyl Ether	<RL		5.0
2-Chlorotoluene	<RL		5.0
2-Hexanone	<RL		10
4-Chlorotoluene	<RL		5.0
4-Methyl-2-Pentanone	<RL		10
Acetone	<RL		100
Acrolein	<RL		100
Acrylonitrile	<RL		5.0
Benzene	<RL		5.0
Bromobenzene	<RL		5.0
Bromochloromethane	<RL		5.0
Bromodichloromethane	<RL		5.0
Bromoform	<RL		5.0
Bromomethane	<RL		10

Carbon Disulfide	<RL	5.0
Carbon Tetrachloride	<RL	5.0
Chlorobenzene	<RL	5.0
Chlorodibromomethane	<RL	5.0
Chloroethane	<RL	5.0
Chloroform	<RL	5.0
Chloromethane	<RL	10
cis-1,2-Dichloroethene	<RL	5.0
cis-1,3-Dichloropropene	<RL	5.0
cis-1,4-Dichloro-2-Butene	<RL	5.0
Dibromomethane	<RL	5.0
Dichlorodifluoromethane	<RL	10
Ethylbenzene	<RL	5.0
Hexachlorobutadiene	<RL	5.0
Iodomethane	<RL	5.0
Isopropylbenzene	<RL	5.0
Methyl Methacrylate	<RL	5.0
Methylene Chloride	<RL	5.0
Methyl-tert-Butyl Ether	<RL	5.0
Naphthalene	<RL	5.0
n-Butylbenzene	<RL	5.0
n-Propylbenzene	<RL	5.0
p-Isopropyltoluene	<RL	5.0
sec-Butylbenzene	<RL	5.0
Styrene	<RL	5.0
tert-butylbenzene	<RL	5.0
Tetrachloroethene	<RL	5.0
Toluene	<RL	5.0
trans-1,2-Dichloroethene	<RL	5.0
trans-1,3-Dichloropropene	<RL	5.0
trans-1,4-Dichloro-2-Butene	<RL	5.0
Trichloroethene	<RL	5.0
Trichlorofluoromethane	<RL	5.0
Vinyl Acetete	<RL	50
Vinyl Chloride	<RL	2.0
Xylenes (Total)	<RL	5.0

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	93		
4-Bromofluorobenzene (80-120)	111		
Toluene-d8 (80-119)	102		

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LABORATORY REPORT

Accura Sample ID #: AC21690 **Accura Project #:** 29042

Client: US Army Corp of Engrs, Savann. Date Sampled: 10/31/2001

Client Contact: JAMES CUBBEDGE Date Received: 11/2/2001

Client Project Number: D0#0154 Date Reported: 11/6/2001

Client Project Name: FDTA ON HUNTER AAF Sample Matrix: WATER

Client Sample ID: HSW DUP1

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7470A

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	<RL		0.0020

ANALYSIS: Metals - RCRA Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Barium	0.032	J	0.50
Cadmium	<RL		0.0050
Chromium	0.0012	J	0.050
Lead	<RL		0.010
Selenium	<RL		0.050
Silver	<RL		0.050

ANALYSIS: SVOC's - USACE Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		11
1,2-Dichlorobenzene	<RL		11
1,3-Dichlorobenzene	<RL		11
1,4-Dichlorobenzene	<RL		11
1-Methylnaphthalene	1.7	J	11
2,4,5-Trichlorophenol	<RL		11
2,4,6-Trichlorophenol	<RL		11
2,4-Dichlorophenol	<RL		11
2,4-Dimethylphenol	<RL		11
2,4-Dinitrophenol	<RL		55
2,4-Dinitrotoluene	<RL		11
2,6-Dinitrotoluene	<RL		11
2-Chloronaphthalene	<RL		11
2-Chlorophenol	<RL		11
2-Methylnaphthalene	<RL		11
2-Methylphenol	<RL		11
2-Nitroaniline	<RL		22
2-Nitrophenol	<RL		11
3,3'-Dichlorobenzidine	<RL		11

3,4-Methylphenol	<RL		22
3-Nitroaniline	<RL		22
4,6-Dinitro-2-methylphenol	<RL		22
4-Bromophenyl phenyl ether	<RL		11
4-Chloro-3-methylphenol	<RL		11
4-Chloroaniline	<RL		11
4-Chlorophenyl phenyl ether	<RL		11
4-Nitroaniline	<RL		22
4-Nitrophenol	<RL		11
Acenaphthene	<RL		11
Acenaphthylene	<RL		11
Anthracene	<RL		11
Benzidine	<RL		11
Benzo(a)anthracene	<RL		11
Benzo(a)pyrene	<RL		11
Benzo(b)fluoranthene	<RL		11
Benzo(g,h,i)perylene	<RL		11
Benzo(k)fluoranthene	<RL		11
Benzoic acid	<RL		55
Benzyl alcohol	<RL		11
bis(2-Chloroethoxy)methane	<RL		11
bis(2-Chloroethyl)ether	<RL		11
bis(2-Chloroisopropyl)ether	<RL		11
bis(2-Ethylhexyl)phthalate	<RL		11
Butyl benzyl phthalate	<RL		11
Carbazole	<RL		11
Chrysene	<RL		11
Dibenz(a,h)anthracene	<RL		11
Dibenzofuran	<RL		11
Diethylphthalate	<RL		11
Dimethylphthalate	<RL		11
Di-n-butylphthalate	<RL		11
Di-n-octylphthalate	<RL		11
Fluoranthene	<RL		11
Fluorene	<RL		11
Hexachlorobenzene	<RL		11
Hexachlorobutadiene	<RL		11
Hexachlorocyclopentadiene	<RL		11
Hexachloroethane	<RL		11
Indeno(1,2,3-cd)pyrene	<RL		11
Isophorone	<RL		11
Naphthalene	3.6	J	11
Nitrobenzene	<RL		11
N-Nitrosodimethylamine	<RL		11
N-Nitroso-di-n-propylamine	<RL		11
N-Nitrosodiphenylamine	<RL		11
Pentachlorophenol	<RL		22
Phenanthrene	<RL		11
Phenol	<RL		11
Pyrene	<RL		11

ANALYSIS: VOC's - USACE Method Ref: 8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		5.0

1,1,1-Trichloroethane	<RL		5.0
1,1,2,2-Tetrachloroethane	<RL		5.0
1,1,2-Trichloroethane	<RL		5.0
1,1-Dichloroethane	<RL		5.0
1,1-Dichloroethene	<RL		5.0
1,1-Dichloropropene	<RL		5.0
1,2,3-Trichlorobenzene	<RL		5.0
1,2,3-Trichloropropane	<RL		5.0
1,2,4-Trichlorobenzene	<RL		5.0
1,2,4-Trimethylbenzene	3.7	J	5.0
1,2-Dibromo-3-Chloropropane	<RL		5.0
1,2-Dibromoethane	<RL		5.0
1,2-Dichlorobenzene	<RL		5.0
1,2-Dichloroethane	<RL		5.0
1,2-Dichloropropane	<RL		5.0
1,3,5-Trimethylbenzene	<RL		5.0
1,3-Dichlorobenzene	<RL		5.0
1,3-Dichloropropane	<RL		5.0
1,4-Dichlorobenzene	<RL		5.0
2,2-Dichloropropane	<RL		5.0
2-Butanone	<RL		5.0
2-Chloroethyl Vinyl Ether	<RL		5.0
2-Chlorotoluene	<RL		5.0
2-Hexanone	<RL		10
4-Chlorotoluene	<RL		5.0
4-Methyl-2-Pentanone	<RL		10
Acetone	<RL		100
Acrolein	<RL		100
Acrylonitrile	<RL		5.0
Benzene	12		5.0
Bromobenzene	<RL		5.0
Bromochloromethane	<RL		5.0
Bromodichloromethane	<RL		5.0
Bromoform	<RL		5.0
Bromomethane	<RL		10
Carbon Disulfide	<RL		5.0
Carbon Tetrachloride	<RL		5.0
Chlorobenzene	<RL		5.0
Chlorodibromomethane	<RL		5.0
Chloroethane	<RL		5.0
Chloroform	<RL		5.0
Chloromethane	<RL		10
cis-1,2-Dichloroethene	<RL		5.0
cis-1,3-Dichloropropene	<RL		5.0
cis-1,4-Dichloro-2-Butene	<RL		5.0
Dibromomethane	<RL		5.0
Dichlorodifluoromethane	<RL		10
Ethylbenzene	8.3		5.0
Hexachlorobutadiene	<RL		5.0
Iodomethane	<RL		5.0
Isopropylbenzene	1.8	J	5.0
Methyl Methacrylate	<RL		5.0
Methylene Chloride	<RL		5.0
Methyl-tert-Butyl Ether	<RL		5.0
Naphthalene	9.0		5.0
n-Butylbenzene	<RL		5.0

n-Propylbenzene	1.8	J	5.0
p-Isopropyltoluene	<RL		5.0
sec-Butylbenzene	<RL		5.0
Styrene	<RL		5.0
tert-butylbenzene	<RL		5.0
Tetrachloroethene	<RL		5.0
Toluene	13		5.0
trans-1,2-Dichloroethene	<RL		5.0
trans-1,3-Dichloropropene	<RL		5.0
trans-1,4-Dichloro-2-Butene	<RL		5.0
Trichloroethene	<RL		5.0
Trichlorofluoromethane	<RL		5.0
Vinyl Acetete	<RL		50
Vinyl Chloride	<RL		2.0
Xylenes (Total)	64		5.0

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	87		
4-Bromofluorobenzene (80-120)	105		
Toluene-d8 (80-119)	99		

ANALYSIS: X SVOC(3510) Sample Surr. (Water Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 19-141)	61		
2-Fluorobiphenyl (Range 40-106)	64		
2-Fluorophenol (Range 12-75)	29		
Nitrobenzene-d5 (Range 11-135)	62		
Phenol-d6 (Range 9-71)	20		
p-Terphenyl-d14 (Range 34-128)	82		

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LABORATORY REPORT

Accura Sample ID #: **AC21691** **Accura Project #:** **29042**

Client: **US Army Corp of Engrs, Savann.** Date Sampled: 10/31/2001

Client Contact: JAMES CUBBEDGE Date Received: 11/2/2001

Client Project Number: D0#0154 Date Reported: 11/6/2001

Client Project Name: FDTA ON HUNTER AAF Sample Matrix: WATER

Client Sample ID: **TRIP BLANK1**

ANALYSIS: VOC's - USACE Method Ref: 8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		5.0
1,1,1-Trichloroethane	<RL		5.0
1,1,2,2-Tetrachloroethane	<RL		5.0
1,1,2-Trichloroethane	<RL		5.0
1,1-Dichloroethane	<RL		5.0
1,1-Dichloroethene	<RL		5.0
1,1-Dichloropropene	<RL		5.0
1,2,3-Trichlorobenzene	<RL		5.0
1,2,3-Trichloropropane	<RL		5.0
1,2,4-Trichlorobenzene	<RL		5.0
1,2,4-Trimethylbenzene	<RL		5.0
1,2-Dibromo-3-Chloropropane	<RL		5.0
1,2-Dibromoethane	<RL		5.0
1,2-Dichlorobenzene	<RL		5.0
1,2-Dichloroethane	<RL		5.0
1,2-Dichloropropane	<RL		5.0
1,3,5-Trimethylbenzene	<RL		5.0
1,3-Dichlorobenzene	<RL		5.0
1,3-Dichloropropane	<RL		5.0
1,4-Dichlorobenzene	<RL		5.0
2,2-Dichloropropane	<RL		5.0
2-Butanone	<RL		5.0
2-Chloroethyl Vinyl Ether	<RL		5.0
2-Chlorotoluene	<RL		5.0
2-Hexanone	<RL		10
4-Chlorotoluene	<RL		5.0
4-Methyl-2-Pentanone	<RL		10
Acetone	<RL		100
Acrolein	<RL		100
Acrylonitrile	<RL		5.0
Benzene	<RL		5.0
Bromobenzene	<RL		5.0
Bromochloromethane	<RL		5.0
Bromodichloromethane	<RL		5.0
Bromoform	<RL		5.0
Bromomethane	<RL		10

Carbon Disulfide	<RL	5.0
Carbon Tetrachloride	<RL	5.0
Chlorobenzene	<RL	5.0
Chlorodibromomethane	<RL	5.0
Chloroethane	<RL	5.0
Chloroform	<RL	5.0
Chloromethane	<RL	10
cis-1,2-Dichloroethene	<RL	5.0
cis-1,3-Dichloropropene	<RL	5.0
cis-1,4-Dichloro-2-Butene	<RL	5.0
Dibromomethane	<RL	5.0
Dichlorodifluoromethane	<RL	10
Ethylbenzene	<RL	5.0
Hexachlorobutadiene	<RL	5.0
Iodomethane	<RL	5.0
Isopropylbenzene	<RL	5.0
Methyl Methacrylate	<RL	5.0
Methylene Chloride	<RL	5.0
Methyl-tert-Butyl Ether	<RL	5.0
Naphthalene	<RL	5.0
n-Butylbenzene	<RL	5.0
n-Propylbenzene	<RL	5.0
p-Isopropyltoluene	<RL	5.0
sec-Butylbenzene	<RL	5.0
Styrene	<RL	5.0
tert-butylbenzene	<RL	5.0
Tetrachloroethene	<RL	5.0
Toluene	6.9	5.0
trans-1,2-Dichloroethene	<RL	5.0
trans-1,3-Dichloropropene	<RL	5.0
trans-1,4-Dichloro-2-Butene	<RL	5.0
Trichloroethene	<RL	5.0
Trichlorofluoromethane	<RL	5.0
Vinyl Acetete	<RL	50
Vinyl Chloride	<RL	2.0
Xylenes (Total)	<RL	5.0

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	94		
4-Bromofluorobenzene (80-120)	114		
Toluene-d8 (80-119)	105		

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LABORATORY REPORT

Accura Sample ID #: **AC21692** **Accura Project #:** **29042**

Client: US Army Corp of Engrs, Savann. Date Sampled: 11/2/2001

Client Contact: JAMES CUBBEDGE Date Received: 11/2/2001

Client Project Number: D0#0154 Date Reported: 11/6/2001

Client Project Name: FDTA ON HUNTER AAF Sample Matrix: WATER

Client Sample ID: **METHOD BLANK**

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7470A

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	<RL		0.0020

ANALYSIS: Metals - RCRA Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/5/2001 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Barium	<RL		0.50
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	<RL		0.010
Selenium	<RL		0.050
Silver	<RL		0.050

ANALYSIS: SVOC's - USACE Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/4/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
1-Methylnaphthalene	<RL		10
2,4,5-Trichlorophenol	<RL		10
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		20
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		10

F-313

3,4-Methylphenol	<RL	20
3-Nitroaniline	<RL	20
4,6-Dinitro-2-methylphenol	<RL	20
4-Bromophenyl phenyl ether	<RL	10
4-Chloro-3-methylphenol	<RL	10
4-Chloroaniline	<RL	10
4-Chlorophenyl phenyl ether	<RL	10
4-Nitroaniline	<RL	20
4-Nitrophenol	<RL	10
Acenaphthene	<RL	10
Acenaphthylene	<RL	10
Anthracene	<RL	10
Benzidine	<RL	10
Benzo(a)anthracene	<RL	10
Benzo(a)pyrene	<RL	10
Benzo(b)fluoranthene	<RL	10
Benzo(g,h,i)perylene	<RL	10
Benzo(k)fluoranthene	<RL	10
Benzoic acid	<RL	50
Benzyl alcohol	<RL	10
bis(2-Chloroethoxy)methane	<RL	10
bis(2-Chloroethyl)ether	<RL	10
bis(2-Chloroisopropyl)ether	<RL	10
bis(2-Ethylhexyl)phthalate	<RL	10
Butyl benzyl phthalate	<RL	10
Carbazole	<RL	10
Chrysene	<RL	10
Dibenz(a,h)anthracene	<RL	10
Dibenzofuran	<RL	10
Diethylphthalate	<RL	10
Dimethylphthalate	<RL	10
Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	20
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - USACE Method Ref: 8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		5.0

Client Sample ID: METHOD BLANK AALSample ID #: AC21692 Accura Project #: 29042

F-314

1,1,1-Trichloroethane	<RL	5.0
1,1,2,2-Tetrachloroethane	<RL	5.0
1,1,2-Trichloroethane	<RL	5.0
1,1-Dichloroethane	<RL	5.0
1,1-Dichloroethene	<RL	5.0
1,1-Dichloropropene	<RL	5.0
1,2,3-Trichlorobenzene	<RL	5.0
1,2,3-Trichloropropane	<RL	5.0
1,2,4-Trichlorobenzene	<RL	5.0
1,2,4-Trimethylbenzene	<RL	5.0
1,2-Dibromo-3-Chloropropane	<RL	5.0
1,2-Dibromoethane	<RL	5.0
1,2-Dichlorobenzene	<RL	5.0
1,2-Dichloroethane	<RL	5.0
1,2-Dichloropropane	<RL	5.0
1,3,5-Trimethylbenzene	<RL	5.0
1,3-Dichlorobenzene	<RL	5.0
1,3-Dichloropropane	<RL	5.0
1,4-Dichlorobenzene	<RL	5.0
2,2-Dichloropropane	<RL	5.0
2-Butanone	<RL	5.0
2-Chloroethyl Vinyl Ether	<RL	5.0
2-Chlorotoluene	<RL	5.0
2-Hexanone	<RL	10
4-Chlorotoluene	<RL	5.0
4-Methyl-2-Pentanone	<RL	10
Acetone	<RL	100
Acrolein	<RL	100
Acrylonitrile	<RL	5.0
Benzene	<RL	5.0
Bromobenzene	<RL	5.0
Bromochloromethane	<RL	5.0
Bromodichloromethane	<RL	5.0
Bromoform	<RL	5.0
Bromomethane	<RL	10
Carbon Disulfide	<RL	5.0
Carbon Tetrachloride	<RL	5.0
Chlorobenzene	<RL	5.0
Chlorodibromomethane	<RL	5.0
Chloroethane	<RL	5.0
Chloroform	<RL	5.0
Chloromethane	<RL	10
cis-1,2-Dichloroethene	<RL	5.0
cis-1,3-Dichloropropene	<RL	5.0
cis-1,4-Dichloro-2-Butene	<RL	5.0
Dibromomethane	<RL	5.0
Dichlorodifluoromethane	<RL	10
Ethylbenzene	<RL	5.0
Hexachlorobutadiene	<RL	5.0
Iodomethane	<RL	5.0
Isopropylbenzene	<RL	5.0
Methyl Methacrylate	<RL	5.0
Methylene Chloride	<RL	5.0
Methyl-tert-Butyl Ether	<RL	5.0
Naphthalene	<RL	5.0
n-Butylbenzene	<RL	5.0

Client Sample ID: METHOD BLANK AALSample ID #: AC21692 Accura Project #: 29042

F-315

n-Propylbenzene	<RL	5.0
p-Isopropyltoluene	<RL	5.0
sec-Butylbenzene	<RL	5.0
Styrene	<RL	5.0
tert-butylbenzene	<RL	5.0
Tetrachloroethene	<RL	5.0
Toluene	<RL	5.0
trans-1,2-Dichloroethene	<RL	5.0
trans-1,3-Dichloropropene	<RL	5.0
trans-1,4-Dichloro-2-Butene	<RL	5.0
Trichloroethene	<RL	5.0
Trichlorofluoromethane	<RL	5.0
Vinyl Acetete	<RL	50
Vinyl Chloride	<RL	2.0
Xylenes (Total)	<RL	5.0

ANALYSIS: X VOC QC Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/2/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (83-124)	95		
4-Bromofluorobenzene (81-118)	118		
Toluene-d8 (84-115)	110		

ANALYSIS: X SVOC (3510) QC Surr. (Water) Method Ref: 8270C

Date Ext/Dig/Prep: 11/2/2001 Date Analyzed: 11/4/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 37-125)	49		
2-Fluorobiphenyl (Range 42-114)	65		
2-Fluorophenol (Range 12-110)	26		
Nitrobenzene-d5 (Range 44-114)	70		
Phenol-d6 (Range 5-126)	21		
p-Terphenyl-d14 (Range 56-130)	87		

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QUALITY CONTROL RESULTS

WATER VOLATILES
BATCH W102901B

Sample ID	Spike Analyte	Spike Amt (ug/L)	LCS Result (ug/L)	LCSD Result (ug/L)	LCS Recovery (%)	LCSD Recovery (%)	RPD	Reference Range RPD	Reference Range Recovery (%)
LCS	1,1-Dichloroethene	50.00	58.02	NA	116	NA	NA	20	86 - 117
LCS	Benzene	50.00	51.84	NA	104	NA	NA	20	87 - 120
LCS	Trichloroethene	50.00	49.15	NA	98	NA	NA	20	89 - 114
LCS	Toluene	50.00	53.61	NA	107	NA	NA	20	84 - 115
LCS	Chlorobenzene	50.00	51.96	NA	104	NA	NA	20	84 - 115

Sample ID	Spike Analyte	Sample Result (ug/L)	Spike Amt (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	MS Recovery (%)	MSD Recovery (%)	RPD	Reference Range RPD	Reference Range Recovery (%)
AC21683	1,1-Dichloroethene	<RDL	50.00	56.38	56.36	113	113	0	20	78 - 117
AC21683	Benzene	<RDL	50.00	51.26	51.25	103	103	0	20	82 - 123
AC21683	Trichloroethene	<RDL	50.00	48.83	48.39	98	97	1	20	79 - 120
AC21683	Toluene	<RDL	50.00	52.54	52.69	105	105	0	20	77 - 116
AC21683	Chlorobenzene	<RDL	50.00	50.44	50.50	101	101	0	20	79 - 110

F-317

* = Outside limits

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QUALITY CONTROL RESULTS

WATER SEMIVOLATILES
BATCH BNAW220

Sample ID	Spike Analyte	Spike Amt (ug/L)	LCS Result (ug/L)	LCSD Result (ug/L)	LCS Recovery (%)	LCSD Recovery (%)	RPD	Reference Range RPD	Reference Range Recovery (%)
LCS	Phenol	100.00	19.61	NA	20	NA	NA	20	15 - 126
LCS	2-Chlorophenol	100.00	41.03	NA	41	NA	NA	20	18 - 124
LCS	4-Chloro-3-methylphenol	100.00	69.62	NA	70	NA	NA	20	22 - 137
LCS	4-Nitrophenol	100.00	9.83	NA	10	NA	NA	20	8 - 141
LCS	Pentachlorophenol	100.00	34.84	NA	35	NA	NA	20	10 - 149
LCS	1,4-Dichlorobenzene	50.00	20.39	NA	41	NA	NA	20	25 - 95
LCS	n-Nitroso-di-n-propylamine	50.00	35.97	NA	72	NA	NA	20	51 - 110
LCS	1,2,4-Trichlorobenzene	50.00	22.51	NA	45	NA	NA	20	29 - 99
LCS	Acenaphthene	50.00	31.44	NA	63	NA	NA	20	44 - 114
LCS	2,4-Dinitrotoluene	50.00	33.99	NA	68	NA	NA	20	41 - 121
LCS	Pyrene	50.00	41.60	NA	83	NA	NA	20	51 - 123

Sample ID	Spike Analyte	Sample Result (ug/L)	Spike Amt (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	MS Recovery (%)	MSD Recovery (%)	RPD	Reference Range RPD	Reference Range Recovery (%)
AC21683	Phenol	<RDL	100.00	21.31	37.19	21	37	54 *	20	10 - 129
AC21683	2-Chlorophenol	<RDL	100.00	31.06	51.03	31	51	49 *	20	28 - 120
AC21683	4-Chloro-3-methylphenol	<RDL	100.00	60.26	77.18	60	77	25 *	20	49 - 125
AC21683	4-Nitrophenol	<RDL	100.00	13.41	22.85	13	23	52 *	20	9 - 145
AC21683	Pentachlorophenol	<RDL	100.00	16.23	24.65	16	25	41 *	20	9 - 172
AC21683	1,4-Dichlorobenzene	<RDL	50.00	31.44	36.41	63	73	15	20	41 - 97
AC21683	n-Nitroso-di-n-propylamine	<RDL	50.00	38.68	41.21	77	82	6	20	47 - 118
AC21683	1,2,4-Trichlorobenzene	<RDL	50.00	33.68	37.51	67	75	11	20	37 - 109
AC21683	Acenaphthene	<RDL	50.00	37.38	39.70	75	79	6	20	55 - 113
AC21683	2,4-Dinitrotoluene	<RDL	50.00	32.46	34.83	65	70	7	20	39 - 120
AC21683	Pyrene	<RDL	50.00	43.29	43.43	87	87	0	20	39 - 142

F-3/8

* = Outside limits

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QUALITY CONTROL RESULTS

WATER METALS - RCRA
BATCH 110201-A

Sample ID	Spike Analyte	Spike Amt (mg/L)	LCS Result (mg/L)	LCSD Result (mg/L)	LCS Recovery (%)	LCSD Recovery (%)	RPD	Reference Range RPD	Reference Range Recovery (%)
LCS	Arsenic	1.00	1.02	1.01	102	101	1	20	75 - 125
LCS	Barium	1.00	1.01	1.00	101	100	1	20	75 - 125
LCS	Cadmium	1.00	1.00	0.99	100	99	1	20	75 - 125
LCS	Chromium	1.00	0.99	0.98	99	98	1	20	75 - 125
LCS	Lead	1.00	1.00	1.00	100	100	1	20	75 - 125
LCS	Selenium	1.00	1.01	1.00	101	100	1	20	75 - 125
LCS	Silver	1.00	1.02	1.01	102	101	1	20	75 - 125

Sample ID	Spike Analyte	Sample Result (mg/L)	Spike Amt (mg/L)	MS Result (mg/L)	MSD Result (mg/L)	MS Recovery (%)	MSD Recovery (%)	RPD	Reference Range RPD	Reference Range Recovery (%)
AC21690	Arsenic	<RDL	1.00	0.99	0.99	99	99	1	20	75 - 125
AC21690	Barium	<RDL	1.00	1.00	0.98	100	98	1	20	75 - 125
AC21690	Cadmium	<RDL	1.00	0.96	0.95	96	95	1	20	75 - 125
AC21690	Chromium	<RDL	1.00	0.96	0.94	96	94	1	20	75 - 125
AC21690	Lead	<RDL	1.00	0.99	0.98	99	98	1	20	75 - 125
AC21690	Selenium	<RDL	1.00	0.98	0.97	98	97	0	20	75 - 125
AC21690	Silver	<RDL	1.00	0.98	0.89	98	89	9	20	75 - 125

F-319

* = Outside limits
** = Recovery could not be determined due to high sample concentration

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QUALITY CONTROL RESULTS

WATER MERCURY
BATCH 110201HG

Sample ID	Spike Analyte	Spike Amt (ug/L)	LCS Result (ug/L)	LCSD Result (ug/L)	LCS Recovery (%)	LCSD Recovery (%)	RPD	Reference Range RPD	Reference Range Recovery (%)
LCS	Mercury	3.00	3.54	NA	118	NA	NA	20	61 - 143

Sample ID	Spike Analyte	Sample Result (ug/L)	Spike Amt (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	MS Recovery (%)	MSD Recovery (%)	RPD	Reference Range RPD	Reference Range Recovery (%)
AC21466	Mercury	<RDL	3.00	2.63	2.62	88	87	0	20	65 - 130

* = Outside limits
** = Recovery could not be determined due to high sample concentration

F-320

APPENDIX G

Calculations for Risk Reduction Standards

Direct Contact only

Hunter AAF, Savannah, Georgia
Summary of Soil Risk Reduction Standards

Substance	Type 1	Type 2	Subsurface Type 3	Overall Type 3	Overall Type 4 RRS
2,4-Dinitrotoluene	6.60E-01	1.34E+01	6.60E-01	6.60E-01	8.42E+01
2-Butanone	2.00E+02	4.26E+03	2.00E+02	2.00E+02	2.25E+04
Acenaphthene	3.00E+02	4.69E+03	3.00E+02	3.00E+02	1.23E+05
Acenaphthylene	1.30E+02	2.35E+03	1.30E+02	1.30E+02	6.13E+04
Acetone	4.00E+02	7.30E+04	4.00E+02	4.00E+02	2.04E+05
Anthracene	5.00E+02	2.35E+04	5.00E+02	5.00E+02	6.13E+05
Arsenic	2.00E+01	6.08E+00	4.10E+01	3.81E+01	3.81E+01
Barium	1.00E+03	5.43E+03	1.00E+03	1.00E+03	1.37E+05
Benzene	5.00E-01	1.42E+01	5.00E-01	5.00E-01	6.87E+01
Benzo(a)anthracene	5.00E+00	1.25E+01	5.00E+00	5.00E+00	7.84E+01
Benzo(a)pyrene	1.64E+00	1.25E+00	1.64E+00	1.64E+00	7.84E+00
Benzo(b)fluoranthene	5.00E+00	1.25E+01	5.00E+00	5.00E+00	7.84E+01
Benzo(ghi)perylene	5.00E+02	2.35E+03	5.00E+02	5.00E+02	6.13E+04
Benzo(k)fluoranthene	5.00E+00	1.25E+02	5.00E+00	5.00E+00	7.84E+02
bis(2-Ethylhexyl) phthalate	5.00E+01	6.52E+02	5.00E+01	5.00E+01	4.09E+03
Cadmium	2.00E+00	7.82E+01	3.90E+01	3.90E+01	2.04E+03
Chlorobenzene	1.00E+01	1.23E+02	1.00E+01	1.00E+01	6.43E+02
Chloromethane	3.00E-01	4.09E+01	3.00E-01	3.00E-01	2.01E+02
Chromium III	1.00E+02	1.17E+05	1.20E+03	1.20E+03	3.07E+06
Chromium VI	1.00E+02	2.34E+02	1.20E+03	1.20E+03	6.08E+03
Chrysene	5.00E+00	1.25E+03	5.00E+00	5.00E+00	7.84E+03
DCE, trans-1,2-	1.00E+01	1.56E+03	1.00E+01	1.00E+01	4.09E+04
Dibenzo(a,h)anthracene	2.05E+00	1.25E+00	5.00E+00	5.00E+00	7.84E+00
Dibutyl phthalate	4.00E+02	7.82E+03	4.00E+02	4.00E+02	2.04E+05
Dichloroethylene, N.O.S.	5.30E-01	7.82E+02	5.30E-01	5.30E-01	2.04E+04
Dieldrin	6.60E-01	5.70E-01	6.60E-01	6.60E-01	3.58E+00
Diethyl phthalate	5.00E+02	6.26E+04	5.00E+02	5.00E+02	1.64E+06
Ethylbenzene	7.00E+01	3.34E+03	7.00E+01	7.00E+01	2.50E+04
Fluoranthene	5.00E+02	3.13E+03	5.00E+02	5.00E+02	8.18E+04
Fluorene	3.60E+02	3.13E+03	3.60E+02	3.60E+02	8.18E+04
Indeno(1,2,3-cd)pyrene	5.00E+00	1.25E+01	5.00E+00	5.00E+00	7.84E+01
Lead	7.50E+01	4.00E+02	4.00E+02	4.00E+02	1.10E+03
Mercury	5.00E-01	2.35E+01	1.70E+01	1.70E+01	6.13E+02
Methoxychlor	1.00E+01	3.91E+02	1.00E+01	1.00E+01	1.02E+04
Methylene chloride	5.00E-01	2.55E+02	5.00E-01	5.00E-01	4.55E+02
Naphthalene	1.00E+02	1.67E+02	1.00E+02	1.00E+02	8.98E+02
Phenanthrene	1.10E+02	2.35E+03	1.10E+02	1.10E+02	6.13E+04
Pyrene	5.00E+02	2.35E+03	5.00E+02	5.00E+02	6.13E+04
Selenium	2.00E+00	3.91E+02	3.60E+01	3.60E+01	1.02E+04
Silver	2.00E+00	3.91E+02	1.00E+01	1.00E+01	1.02E+04
Tetrachloroethene	5.00E-01	1.30E+02	5.00E-01	5.00E-01	3.87E+02
Toluene	1.00E+02	1.49E+03	1.00E+02	1.00E+02	7.94E+03
Trichlorofluoromethane	5.00E-01	5.26E+02	5.00E-01	5.00E-01	2.63E+03
Xylenes	1.00E+03	1.56E+05	1.00E+03	1.00E+03	4.09E+06

G-1

Table xx
Soil to Ground water Leachability

	K_d (a) (L/kg)	K_{oc} (L/kg)	Source	$Ø_w$	$Ø_a$	H' (unitless)	$Øw+Øa*H'/Þ_b$	Groundwater Type 1/3 RRS	C_w*20	Pathway Type 1/3 C_s (mg/kg)	Groundwater Type 2 RRS	C_w*20	Pathway Type 2 C_s	Residential Cs (mg/kg)	Groundwater Type 4 RRS (C_w, mg/L)	C_w*20	Pathway Type 4 C_s (mg/kg)	Overall Cs (mg/kg)	
Arsenic	2.90E+01		SSG	0.3	0.13	0.00E+00	0.2	5.0E-02	1.0E+00	2.9E+01	5.7E-04	1.1E-02	3.3E-01	2.9E+01	1.9E-03	3.8E-02	1.1E+00	2.9E+01	(b)
Barium	4.10E+01		SSG	0.3	0.13	0.00E+00	0.2	2.0E+00	4.0E+01	1.6E+03	1.1E+00	2.2E+01	9.1E+02	1.7E+03	7.2E+00	1.4E+02	5.9E+03	5.9E+03	
Cadmium	7.50E+01		SSG	0.3	0.13	0.00E+00	0.2	5.0E-03	1.0E-01	7.5	7.8E-03	1.6E-01	11.7	11.7	5.1E-02	1.0E+00	76.7	76.7	
Chromium III	1.80E+06		SSG	0.3	0.13	0.00E+00	0.2	1.0E-01	2.0E+00	3600000.4	2.3E+01	4.6E+02	8.3E+08	8.3E+08	1.5E+02	3.1E+03	5.5E+09	5.5E+09	
Chromium VI	1.90E+01		SSG	0.3	0.13	0.00E+00	0.2	1.0E-01	2.0E+00	38.4	4.7E-02	9.4E-01	18.0	38.4	3.1E-01	6.2E+00	120.0	120.0	
Lead	9.00E+02		SCDM	0.3	0.13	0.00E+00	0.2	1.5E-02	3.0E-01	270	1.5E-02	3.0E-01	270	270	1.5E-02	3.0E-01	270	270	
Mercury	5.20E+01		SSG	0.3	0.13	4.67E-01	0.240473333	2.0E-03	4.0E-02	2.1	4.7E-03	9.4E-02	4.9	4.9	3.1E-02	6.2E-01	32.4	32.4	
Selenium	5.00E+00		SSG	0.3	0.13	0.00E+00	0.2	5.0E-02	1.0E+00	5.2	7.8E-02	1.6E+00	8.1	8.1	5.1E-01	1.0E+01	100.0	100.0	
Silver	8.30E+00		SSG	0.3	0.13	0.00E+00	0.2	1.0E-01	2.0E+00	17.0	7.8E-02	1.6E+00	13.3	17.0	5.1E-01	1.0E+01	86.7	86.7	
1,2-cis-Dichloroethene	7.10E-01	3.55E+01	SSG	0.3	0.13	1.67E-01	0.214473333	5.0E-03	1.0E-01	9.2E-02	1.6E-01	3.2E+00	3.0E+00	3.0E+00	1.0E+00	2.0E+01	1.8E+01	1.8E+01	
1,2-trans-Dichloroethene	1.05E+00	5.25E+01	SSG	0.3	0.13	3.85E-01	0.233366667	1.0E-01	2.0E+00	2.6E+00	3.1E-01	6.2E+00	8.0E+00	8.0E+00	2.0E+00	4.0E+01	5.1E+01	5.1E+01	
2-Butanone	3.80E-02	1.90E+00	SCDM*	0.3	0.13	2.30E-03	0.200198987	2.0E+00	4.0E+01	9.5E+00	5.7E-01	1.1E+01	2.7E+00	9.5E+00	2.8E+00	5.6E+01	1.3E+01	1.3E+01	
2,6-Dinitrotoluene	1.38E+00	6.92E+01	SSG	0.3	0.13	3.06E-05	0.200002652	5.0E-05	1.0E-03	1.6E-03	1.3E-03	2.6E-02	4.1E-02	4.1E-02	4.2E-03	8.4E-02	1.3E-01	1.3E-01	
Acenaphthene	1.42E+02	7.08E+03	SSG	0.3	0.13	6.36E-03	0.2005512	2.0E+00	4.0E+01	5.7E+03	9.4E-01	1.9E+01	2.7E+03	5.7E+03	6.1E+00	1.2E+02	1.7E+04	1.7E+04	
Acenaphthylene	6.20E+01	3.10E+03	SCDM*	0.3	0.13	4.51E-03	0.200390867	1.0E-02	2.0E-01	1.2E+01	4.7E-01	9.4E+00	5.8E+02	5.8E+02	3.1E+00	6.2E+01	3.9E+03	3.9E+03	
Acetone	1.15E-02	5.75E-01	SSG	0.3	0.13	1.59E-03	0.2001378	4.0E+00	8.0E+01	1.7E+01	1.6E+00	3.2E+01	6.8E+00	1.7E+01	1.0E+01	2.0E+02	4.2E+01	4.2E+01	
Anthracene	5.90E+02	2.95E+04	SSG	0.3	0.13	2.67E-03	0.2002314	1.0E-02	2.0E-01	1.2E+02	4.7E+00	9.4E+01	5.5E+04	5.6E+04	3.1E+01	6.2E+02	3.7E+05	3.7E+05	
Benzene	1.18E+00	5.89E+01	SSG	0.3	0.13	2.28E-01	0.21976	5.0E-03	1.0E-01	1.4E-01	2.7E-03	5.4E-02	7.5E-02	1.4E-01	4.7E-03	9.4E-02	1.3E-01	1.4E-01	
Benzo(a)anthracene	7.96E+03	3.98E+05	SSG	0.3	0.13	1.37E-04	0.200011873	1.0E-04	2.0E-03	1.6E+01	1.2E-03	2.4E-02	1.9E+02	1.9E+02	3.9E-03	7.8E-02	6.2E+02	6.2E+02	
Benzo(a)pyrene	2.04E+04	1.02E+06	SSG	0.3	0.13	4.63E-05	0.200004013	2.0E-04	4.0E-03	8.2E+01	1.2E-04	2.4E-03	4.9E+01	8.2E+01	3.9E-04	7.8E-03	1.6E+02	1.6E+02	
Benzo(b)fluoranthene	2.46E+04	1.23E+06	SSG	0.3	0.13	4.55E-03	0.200394333	2.0E-04	4.0E-03	9.8E+01	1.2E-03	2.4E-02	5.9E+02	5.9E+02	3.9E-03	7.8E-02	1.9E+03	1.9E+03	
Benzo(g,h,i)perylene	7.70E+04	3.85E+06	SCDM*	0.3	0.13	5.74E-06	0.200000497	1.0E-02	2.0E-01	1.5E+04	4.7E-01	9.4E+00	7.2E+05	7.2E+05	3.1E+00	6.2E+01	4.8E+06	4.8E+06	
Benzo(k)fluoranthene	2.46E+04	1.23E+06	SSG	0.3	0.13	3.40E-05	0.200002947	1.0E-02	2.0E-01	4.9E+03	1.2E-02	2.4E-01	5.9E+03	5.9E+03	3.9E-02	7.8E-01	1.9E+04	1.9E+04	
Bis(2-ethylhexyl)phthalate	3.02E+05	1.51E+07	SSG	0.3	0.13	4.18E-06	0.200000362	6.0E-03	1.2E-01	3.6E+04	6.1E-02	1.2E+00	3.7E+05	3.7E+05	2.0E-01	4.0E+00	1.2E+06	1.2E+06	(b)
Chlorobenzene	4.38E+00	2.19E+02	SSG	0.3	0.13	1.52E-01	0.213173333	1.0E-01	2.0E+00	9.2E+00	1.1E-02	2.2E-01	1.0E+00	9.2E+00	5.7E-02	1.1E+00	5.2E+00	9.2E+00	
Chloromethane	1.30E-01	6.50E+00	SCDM	0.3	0.13	3.60E-01	0.2312	3.0E-03	6.0E-02	2.2E-02	5.4E-02	1.1E+00	3.9E-01	3.9E-01	2.7E-01	5.4E+00	2.0E+00	2.0E+00	
Chrysene	7.96E+03	3.98E+05	SSG	0.3	0.13	3.88E-03	0.200336267	2.0E-04	4.0E-03	3.2E+01	1.2E-01	2.4E+00	1.9E+04	1.9E+04	3.9E-01	7.8E+00	6.2E+04	6.2E+04	
Dibenzo(a,h)anthracene	7.60E+04	3.80E+06	SSG	0.3	0.13	6.03E-07	0.200000052	3.0E-04	6.0E-03	4.6E+02	1.2E-04	2.4E-03	1.8E+02	4.6E+02	3.9E-04	7.8E-03	5.9E+02	5.9E+02	
Ethylbenzene	7.26E+00	3.63E+02	SSG	0.3	0.13	3.23E-01	0.227993333	7.0E-01	1.4E+01	1.0E+02	4.3E-01	8.6E+00	6.4E+01	1.0E+02	2.3E+00	4.6E+01	3.4E+02	3.4E+02	
Fluoranthene	2.14E+03	1.07E+05	SSG	0.3	0.13	6.60E-04	0.2000572	1.0E+00	2.0E+01	4.3E+04	6.3E-01	1.3E+01	2.7E+04	4.3E+04	4.1E+00	8.2E+01	1.8E+05	1.8E+05	
Fluorene	2.76E+02	1.38E+04	SSG	0.3	0.13	2.61E-03	0.2002262	1.0E+00	2.0E+01	5.5E+03	6.3E-01	1.3E+01	3.5E+03	5.5E+03	4.1E+00	8.2E+01	2.3E+04	2.3E+04	
Indeno(1,2,3-cd)pyrene	6.94E+04	3.47E+06	SSG	0.3	0.13	6.56E-05	0.200005685	4.0E-04	8.0E-03	5.6E+02	1.2E-03	2.4E-02	1.7E+03	1.7E+03	3.9E-03	7.8E-02	5.4E+03	5.4E+03	
Methylene chloride	2.34E-01	1.17E+01	SSG	0.3	0.13	8.98E-02	0.207782667	5.0E-03	1.0E-01	4.4E-02	5.4E-02	1.1E+00	4.8E-01	4.8E-01	1.2E-01	2.4E+00	1.1E+00	1.1E+00	
Naphthalene	4.00E+01	2.00E+03	SSG	0.3	0.13	1.98E-02	0.201716	2.0E-02	4.0E-01	1.6E+01	1.8E-03	3.6E-02	1.4E+00	1.6E+01	8.8E-03	1.8E-01	7.1E+00	1.6E+01	(b)
Phenanthrene	5.90E+02	2.95E+04	SCDM*	0.3	0.13	9.43E-04	0.200081727	1.0E-02	2.0E-01	1.2E+02	4.7E-01	9.4E+00	5.5E+03	5.6E+03	3.1E+00	6.2E+01	3.7E+04	3.7E+04	
Pyrene	2.10E+03	1.05E+05	SSG	0.3	0.13	4.51E-04	0.200039087	1.0E+00	2.0E+01	4.2E+04	4.7E-01	9.4E+00	2.0E+04	4.2E+04	3.1E+00	6.2E+01	1.3E+05	1.3E+05	
Tetrachloroethene	3.10E+00	1.55E+02	SSG	0.3	0.13	7.54E-01	0.265346667	5.0E-03	1.0E-01	3.4E-01	1.4E-02	2.8E-01	9.4E-01	9.4E-01	4.0E-02	8.0E-01	2.7E+00	2.7E+00	
Toluene	3.64E+00	1.82E+02	SSG	0.3	0.13	2.72E-01	0.223573333	1.0E+00	2.0E+01	7.7E+01	2.2E-01	4.4E+00	1.7E+01	8.0E+01	1.1E+00	2.2E+01	8.5E+01	8.5E+01	
Xylene	7.72E+00	3.86E+02	SSG AV	0.3	0.13	2.76E-01	0.22392	1.0E+01	2.0E+02	1.6E+03	3.1E+01	6.2E+02	4.9E+03	4.9E+03	2.0E+02	4.0E+03	3.2E+04	3.2E+04	

Leaching for Type 2 + Type 4 RR

SSG Soil Screening Guidance (US Environmental Protection Agency, 1996)
$Ø_w$ Water-filled soil porosity = 0.3 (L/L)
$Ø_a$ Air-filled soil porosity = 0.13 (L/L)
H' Dimensionless Henry Law Constant (HLC x 41) (unitless)
Þb Dry soil bulk density = 1.5 kg/L
RRS Risk Reduction Standard
C_w Target Leachate Concentration (mg/L)
C_s Screening Level in soil (mg/kg)
(a) $K_d = K_{oc} * f_{oc}$ where f_{oc} equal 0.02 (Georgia EPD HSRA Rules)
(b) C_s based on Type 1 RRS higher than C_s based on Type 4 RRS

G-2

Prepared by : LMS 1/11/02
Checked by:CMC 1/14/02

Risk Reduction Standards for Groundwater
Hunter AAF

Para	Chronic Reference Dose Oral (mg/kg/day)	Chronic Reference Dose Inhalation (mg/kg/day)	Cancer Slope Factor Oral (mg/kg/day)-1	Cancer Slope Factor Inhalation (mg/kg/day)-1	Weight of Evidence	Source for Chronic Rfds and CSFs	Type 1 Standard (mg/L)		Type 2 Standard (mg/L) Adult Noncarcinogenic	Type 2 Standard (mg/L) Adult Carcinogenic	Type 2 Standard (mg/L) Child Noncarcinogenic	Type 2 Standard (mg/L) Child Carcinogenic	Type 2 Overall	Type 4 Standard (mg/L) Occupational Noncarcinogenic	Type 4 Standard (mg/L) Occupational Carcinogenic	Type 4 Overall
1,1-Dichloroethene	9.00E-03	ND	6.00E-01	1.75E-01	C	IRIS	0.007		0.33	0.00058	0.14	0.0010	0.00058	0.92	0.0012	0.0012
2,4-Dimethyphenol	2.00E-02	ND	ND	ND	D	IRIS	0.7		0.73	ND	0.31	ND	0.31	2.0	ND	2.0
Acetone	1.00E-01	ND	ND	ND	D	IRIS	4		3.7	ND	1.6	ND	1.6	10	ND	10
Arsenic	3.00E-04	ND	1.50E+00	--	A	IRIS	0.05		0.011	0.00057	0.0047	0.0012	0.00057	0.031	0.0019	0.0019
Barium	7.00E-02	--	ND	ND	D	IRIS, HEAST	2		2.6	ND	1.1	ND	1.1	7.2	ND	7.2
Benzene	3.00E-03	1.71E-03	3.50E-02	5.70E-02	A	IRIS, NCEA	0.005		0.011	0.0027	0.0033	0.0039	0.0027	0.017	0.0047	0.0047
Chlorobenzene	2.00E-02	5.71E-03	ND	ND	D	IRIS,HEAST	0.1		0.039	ND	0.011	ND	0.011	0.057	ND	0.057
Chloroethane	ND	2.90E+00	ND	ND	ND	IRIS	0.005	DL	21	ND	6.0	ND	6.0	30	ND	30
Chloroform	1.00E-02	ND	NA	6.57E-03	B2	IRIS	0.1	*	0.37	0.026	0.16	0.037	0.026	1.0	0.044	0.044
Chloromethane	ND	2.60E-02	ND	ND	D	IRIS	0.003		0.19	ND	0.054	ND	0.054	0.27	ND	0.27
Chromium III	1.50E+00	ND	ND	ND	D	IRIS	0.1		55	ND	23	ND	23	153	ND	153
Chromium VI	3.00E-03	--	ND	--	A	IRIS	0.1		0.11	ND	0.047	ND	0.047	0.31	ND	0.31
cis-1,2-Dichloroethene	1.00E-02	ND	ND	ND	ND	HEAST	0.005	DL	0.37	ND	0.16	ND	0.16	1.0	ND	1.0
Ethylbenzene	1.00E-01	2.86E-01	ND	ND	D	IRIS	0.7		1.3	ND	0.43	ND	0.43	2.3	ND	2.3
Lead	ND	ND	ND	ND		IRIS	0.015		ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	2.00E-02	8.60E-04	ND	ND	C	IRIS	0.02		0.0062	ND	0.0018	ND	0.0018	0.0088	ND	0.0088
Toluene	2.00E-01	1.14E-01	ND	ND	D	IRIS	1		0.75	ND	0.22	ND	0.22	1.1	ND	1.1
trans-1,2-Dichloroethene	2.00E-02	ND	ND	ND	ND	IRIS	0.1		0.73	ND	0.31	ND	0.31	2.0	ND	2.0
Vinyl chloride (early life)	3.00E-03	3.00E-02	1.40E+00	3.10E-02	A	IRIS	0.002		0.073	0.00055	0.027	0.0011	0.0005	--	--	--
Vinyl chloride (adult)	3.00E-03	3.00E-02	7.20E-01	1.55E-02	A	IRIS	0.002		--	--	--	--	--	0.15	0.0033	0.0033
Xylenes, mixed	2.00E+00	ND	ND	ND	D	IRIS, HEAST	10		73	ND	31	ND	31	204	ND	204

Source Description: IRIS - Integrated Risk Information System, USEPA.
HEAST - Health Effects Assessment Summary Table FY1997, USEPA.
NCEA - National Center for Exposure Assessment, USEPA.
Ga EPD - Approved Provisional Values

ND Toxicity values not available

Equation 2 (Noncarcinogens):

$$C = \frac{THI \times BW \times AT \times 365 days/year}{EF \times ED \times [(1/RfDi \times K \times IRa) + (1/RfDo \times IRw)]}$$

Where:
THI = ard Index =
BW = ht =
AT = A g Time =
EF = Exposure Frequency =
EF = Exposure Frequency =
ED = Exposure Duration =
RfDi = Inhalation Reference Dose =
K = Volatilization Factor = 0.0005 x 1000 L/m3 =
IRa = Inhalation Rate for Air =
RfDo = Oral Reference Dose =
IRw = Ingestion Rate for Water =
TR = Target Risk =

CSFo = Oral Cancer Slope Factor =
CSFi = Inhalation Cancer Slope Factor =

Equation 1 (Carcinogens):

$$C = \frac{TR \times BW \times AT \times 365 days/year}{EF \times ED \times [(SFi \times K \times IRa) + (SFo \times IRw)]}$$

Type 2 Adult	Type 2 Parameters Child	Type 4 Parameters
1	1	1
70 kg	15 kg	70 kg
30 years (noncarc.); 70 (carcinogens)	6	25 years for noncarcinogens; 70 years for carcinogens
350 days/year	350 days/year	250 day/year
30 years	6 years	25 year
Chemical Specific	Chemical Specific	Chemical Specific
0.5 L/m3	0.5 L/m3	0.5 L/m3
20 m3/day	15 m3/day	20 m3/day
Chemical Specific	Chemical Specific	Chemical Sp cific - Chronic
2 L/day	1 L/day (EFS)	1 L/day
0.00001 (Class A and B);	0.00001 (Class A and B);	0.00001 (Class A and B);
0.0001 (Class C)	0.0001 (Class C)	0.0001 (Class C)
Chemical Specific	Chemical Specific	Chemical Specific
Chemical Specific	Chemical Specific	Chemical Specific

Prepared by: LMS 1/11/02
Checked by: CMC 1/11/02

EXPOSURE PARAMETERS

Exposure Parameters (Types 1 & 3 RRS)

Hunter AAF, FTA ; Savannah, Georgia ; HSI No

Parameter	Type 1 Value	Type 3 Value
Target Hazard Index	1	1
Target Risk (Class A & B)	0.00001	0.00001
Target Risk (Class C)	0.0001	0.0001
Body Weight (kg)	70	70
Averaging Time (carcinogen) (yr)	70	70
Averaging Time (noncarcinogen) (yr)	30	25
Exposure Duration (carcinogen & noncarcinogen) (yr)	30	25
Exposure Frequency (days/yr)	350	250
Ingestion Rate of Soil (mg/day)	114	50
Inhalation Rate of Air (m^3/day)	15	20
Ingestion Rate of Water (L/day)	2	1
Particulate Emission Factor (m^3/kg)	4,630,000,000	4,630,000,000
Water-to-Air Volatilization Factor (K) (L/kg)	0.5	0.5

A-9

Exposure Parameters (Type 2 RRS)
Hunter AAF, FTA ; Savannah, Georgia ; HSI No.

Scenerio: Default-Adult

Parameter	Value
Target Hazard Index	1
Target Risk	.00001
Body Weight (kg)	70
Averaging Time (noncarcinogen) (yr)	30
Averaging Time (carcinogen) (yr)	70
Exposure Duration (noncarcinogen) (yr)	30
Exposure Duration (carcinogen) (yr)	30
Exposure Frequency (days/yr)	350.00
Ingestion Rate of Soil (mg/day)	100.00
Inhalation Rate of Air (m^3/day)	20.00
Ingestion Rate of Water (L/day)	2.00
Particulate Emission Factor (m^3/day)	4,630,000,000.00
Water-to-Air Volatilization Factor (K) (L/m^3)	0.50

Scenerio: Default-Child

Parameter	Value
Target Hazard Index	1
Target Risk	.00001
Body Weight (kg)	15
Averaging Time (noncarcinogen) (yr)	6
Averaging Time (carcinogen) (yr)	70
Exposure Duration (noncarcinogen) (yr)	6
Exposure Duration (carcinogen) (yr)	6
Exposure Frequency (days/yr)	350.00
Ingestion Rate of Soil (mg/day)	200.00
Inhalation Rate of Air (m^3/day)	15.00
Ingestion Rate of Water (L/day)	1.00
Particulate Emission Factor (m^3/day)	4,630,000,000.00
Water-to-Air Volatilization Factor (K) (L/m^3)	0.50

Notes:

* Value of parameter differs from default value for parameter

Exposure Parameters (Type 4 RRS)
Hunter AAF, FTA ; Savannah, Georgia ; HSI No.

Scenerio: Occupational Adult

Parameter	Value
Target Hazard Index	1
Target Risk	.00001
Body Weight (kg)	70
Averaging Time (noncarcinogen) (yr)	25
Averaging Time (carcinogen) (yr)	70
Exposure Duration (noncarcinogen) (yr)	25
Exposure Duration (carcinogen) (yr)	25
Exposure Frequency (days/yr)	250
Ingestion Rate of Soil (mg/day)	50
Inhalation Rate of Air (m^3/day)	20
Ingestion Rate of Water (L/day)	1
Particulate Emmission Factor (m^3/day)	4,630,000,000
Water-to-Air Volatilization Factor (K) (L/m^	.5

9-9

TOXICITY VALUES

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
1,1,1-Trichloroethane								D	IRIS	9/90	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	ND			2.86E-01	NCEA/EPD	5/96				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
1,1,2,2-Tetrachloroethane								C	IRIS	2/94	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	2.0E-01	IRIS	2/94	2.0E-01	IRIS	2/94				
1,1,2-Trichloroethane								C	IRIS	2/94	
Sub-Chronic Reference Dose	(mg/kg/day)	4.0E-02	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	4.0E-03	IRIS	2/95							
Cancer Slope Factor	(mg/kg/day)-1	5.7E-02	IRIS	2/94	5.6E-02	IRIS	2/94				
1,1-Dichloroethane								C	IRIS	12/96	
Sub-Chronic Reference Dose	(mg/kg/day)	1.0E00	HEAST	7/97	5.71E-01	HEAST	7/97				
Chronic Reference Dose	(mg/kg/day)	1.0E-01	HEAST	7/97	5.71E-02	HEAST	7/97				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
1,1-Dichloroethene								C	IRIS	2/91	Effective date 2/98
Sub-Chronic Reference Dose	(mg/kg/day)	9.0E-03	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	9.00E-03	IRIS	4/89	ND						
Cancer Slope Factor	(mg/kg/day)-1	6.00E-01	IRIS	2/91	1.8E-01	IRIS	2/91				
1,2,3-Trichloropropane								B2	HEAST	7/97	
Sub-Chronic Reference Dose	(mg/kg/day)	6.00E-02	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	6.00E-03	IRIS	8/90	ND						
Cancer Slope Factor	(mg/kg/day)-1	7.00E+00	HEAST	7/97	ND						

C-7

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
1,2,4-Trichlorobenzene								D	IRIS	11/96	
Sub-Chronic Reference Dose	(mg/kg/day)	1.00E-02	HEAST	7/97	5.70E-01	HEAST	7/97				
Chronic Reference Dose	(mg/kg/day)	1.00E-02	IRIS	11/96	5.70E-02	HEAST	7/97				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
1,2-Dichlorobenzene								ND			
Sub-Chronic Reference Dose	(mg/kg/day)	ND			5.70E-01	HEAST	7/97				
Chronic Reference Dose	(mg/kg/day)	9.0E-02	IRIS	3/91	5.70E-02	HEAST	7/97				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
1,2-Dichloroethane								B2	IRIS	1/91	
Sub-Chronic Reference Dose	(mg/kg/day)	ND			ND						
Chronic Reference Dose	(mg/kg/day)				ND						
Cancer Slope Factor	(mg/kg/day)-1	9.1E-02	IRIS	1/91	9.1E-02	IRIS	1/91				
1,2-Dichloropropane								B2	HEAST	7/97	
Sub-Chronic Reference Dose	(mg/kg/day)				3.7E-03	HEAST	7/97				
Chronic Reference Dose	(mg/kg/day)	ND			1.1E-03	IRIS	12/91				
Cancer Slope Factor	(mg/kg/day)-1	6.8E-02	HEAST	7/97	ND						
1,3-Dichlorobenzene											provisional NCEA values
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	3E-02	NCEA		2E-03	NCEA					
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
1,4-Dichlorobenzene								C	HEAST	7/97	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)				2.3E-01	IRIS	11/96				
Cancer Slope Factor	(mg/kg/day)-1	2.4E-02	HEAST	7/97							

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class Class	Cancer Class Source	Cancer Class Date	Comments
2,4,5-T								ND			
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	1E-02	IRIS	2/93	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
2,4-D								ND			
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	1E-02	IRIS	1/92	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
2,4-Dimethylphenol								ND			
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	2.00E-02	IRIS	11/90	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
2,4-Dinitrotoluene								B2	IRIS	9/90	
Sub-Chronic Reference Dose	(mg/kg/day)	2E-03	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	2E-03	IRIS	2/93	ND						
Cancer Slope Factor	(mg/kg/day)-1	6.8E-01	IRIS	6/96	ND						
2,6-Dinitrotoluene								B2	IRIS	9/90	
Sub-Chronic Reference Dose	(mg/kg/day)	1E-02	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	1E-03	HEAST	7/97	ND						
Cancer Slope Factor	(mg/kg/day)-1	6.8E-01	IRIS	9/90	ND						
2-Butanone								D	IRIS	12/89	
Sub-Chronic Reference Dose	(mg/kg/day)	2E+00	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	6.00E-01	IRIS	5/93	2.9E-01	IRIS	7/92				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						

G-9

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
4-Methyl-2-pentanone								ND			Methyl Isobutyl Ketone
Sub-Chronic Reference Dose	(mg/kg/day)	8.00E-01	HEAST	7/97	2.29E-01	HEAST	7/97				
Chronic Reference Dose	(mg/kg/day)	8.00E-02	HEAST	7/97	2.29E-02	HEAST	7/97				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Acenaphthene								ND			
Sub-Chronic Reference Dose	(mg/kg/day)	6.00E-01	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	6.00E-02	IRIS	4/94	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Acenaphthylene								D	IRIS	1/91	Based on pyrene
Sub-Chronic Reference Dose	(mg/kg/day)	3.00E-01	HEAST(a)								
Chronic Reference Dose	(mg/kg/day)	3.00E-02	IRIS(a)	9/94	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Acetone								D	IRIS	12/90	
Sub-Chronic Reference Dose	(mg/kg/day)	1E+00	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	1.00E-01	IRIS	8/93	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Aldrin								B2	IRIS	7/93	
Sub-Chronic Reference Dose	(mg/kg/day)	3.00E-05	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	3.00E-05	IRIS	3/88	ND						
Cancer Slope Factor	(mg/kg/day)-1	17	IRIS	7/93	17.2	IRIS	7/93				
alpha-BHC								B2	IRIS	7/93	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	6.30E00	IRIS	7/93	6.30E00	IRIS	7/93				

G-10

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
Anthracene								D	IRIS	1/91	
Sub-Chronic Reference Dose	(mg/kg/day)	3.00E+00	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	3.00E-01	IRIS	7/93	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Antimony								ND			
Sub-Chronic Reference Dose	(mg/kg/day)	4.00E-04	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	4.00E-04	IRIS	2/91	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Arsenic								A	IRIS	7/95	
Sub-Chronic Reference Dose	(mg/kg/day)	3.00E-04	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	3.00E-04	IRIS	2/93	ND						
Cancer Slope Factor	(mg/kg/day)-1	1.50E+00	IRIS	7/95	1.51E+01	IRIS	7/95				
Barium								ND			
Sub-Chronic Reference Dose	(mg/kg/day)	7E-02	HEAST	7/97	1.43E-03	HEAST	5/95				
Chronic Reference Dose	(mg/kg/day)	7.00E-02	IRIS	3/98	1.43E-04	HEAST	5/95				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Benzene								A	IRIS	1/00	Elim. RD 6/97. Using mid-range value for SFo.
Sub-Chronic Reference Dose	(mg/kg/day)				1.71E-02	NCEA/EPD	1/96				
Chronic Reference Dose	(mg/kg/day)	3.00E-03	NCEA		1.7E-03	NCEA					
Cancer Slope Factor	(mg/kg/day)-1	3.50E-02	IRIS	1/00	1.7e-2	IRIS	10/98				
Benzene, 1,4-dichloro-								C	HEAST	5/95	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	ND			2.3E-01	IRIS	11/96				
Cancer Slope Factor	(mg/kg/day)-1	2.4E-02	HEAST	5/95	ND						

C-11

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
Benzo(a)anthracene								B2	IRIS	3/94	
Sub-Chronic Reference Dose	(mg/kg/day)	ND			ND						
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	7.30E-01	NCEA	1/96	3.10E-01	REG IV	11/95				
Benzo(a)pyrene								B2	IRIS	11/94	
Sub-Chronic Reference Dose	(mg/kg/day)	ND			ND						
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	7.3	IRIS	11/94	3.10	REG IV	11/95				
Benzo(b)fluoranthene								B2	IRIS	3/94	
Sub-Chronic Reference Dose	(mg/kg/day)	ND			ND						
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	7.30E-01	NCEA	1/96	3.10E-01	REG IV	11/95				
Benzo(ghi)perylene								D	IRIS	1/92	Based on pyrene
Sub-Chronic Reference Dose	(mg/kg/day)	3.00E-01	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	3.00E-02	IRIS (a)	7/93	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Benzo(k)fluoranthene								B2	IRIS	3/94	
Sub-Chronic Reference Dose	(mg/kg/day)	ND			ND						
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	7.30E-02	NCEA	1/96	3.10E-02	REG IV	11/95				
Beryllium								B1	IRIS	9/92	Updated May 4, 1998
Sub-Chronic Reference Dose	(mg/kg/day)	5.00E-03	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	2.00E-03	IRIS	4/98	5.72E-06	IRIS	4/98				
Cancer Slope Factor	(mg/kg/day)-1	NA			8.40E+00	IRIS	4/98				

G-12

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
Carbon tetrachloride								B2	IRIS	6/91	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	7.0E-04	IRIS	6/91	ND						
Cancer Slope Factor	(mg/kg/day)-1	1.3E-01	IRIS	6/91	5.3E-02	IRIS	6/91				
Chlordane								B2	IRIS	2/98	Effective date 02/98
Sub-Chronic Reference Dose	(mg/kg/day)	6.00E-05	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	5.00E-04	IRIS	2/98	2.00E-04	IRIS	2/98				
Cancer Slope Factor	(mg/kg/day)-1	3.5E-01	IRIS	2/98	3.50E-01	IRIS	2/98				
Chlorobenzene								D	IRIS	3/91	
Sub-Chronic Reference Dose	(mg/kg/day)				5.7E-02	NCEA/EPD	5/96				
Chronic Reference Dose	(mg/kg/day)	2E-02	IRIS	7/93	5.71E-03	HEAST	7/97				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Chloroethane								ND			
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	ND			2.9E+00	IRIS	4/97				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Chloroform								B2	IRIS	3/91	
Sub-Chronic Reference Dose	(mg/kg/day)	ND			1.14E-02	NCEA/EPD	5/96				
Chronic Reference Dose	(mg/kg/day)	1.00E-02	IRIS	9/92	ND						
Cancer Slope Factor	(mg/kg/day)-1	6.1E-03	IRIS	3/91	8.05E-02	IRIS	3/91				
Chloromethane								C	HEAST	9/97	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)										
Cancer Slope Factor	(mg/kg/day)-1	1.3E-02	HEAST	7/97	6.3E-03	HEAST	7/97				

G-13

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
beta-BHC								C	IRIS	7/93	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	1.8	IRIS	7/93	1.8	IRIS	7/93				
bis(2-Ethylhexyl) phthalate								B2	IRIS	2/93	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	2.00E-02	IRIS	5/91	ND						
Cancer Slope Factor	(mg/kg/day)-1	1.40E-02	IRIS	2/93	ND						
Bromodichloromethane								B2	IRIS	3/93	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	2.0E-02	IRIS	3/91	ND						
Cancer Slope Factor	(mg/kg/day)-1	6.20E-02	IRIS	3/93	ND						
Butyl benzyl phthalate								C	IRIS	2/93	
Sub-Chronic Reference Dose	(mg/kg/day)	2E+0	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	2E-01	IRIS	2/93	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Cadmium								B1	IRIS	2/94	Chronic oral reference dose for soil is 1.00E-03.
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	5.00E-04	IRIS	2/94							
Cancer Slope Factor	(mg/kg/day)-1	ND			6.30E+00	IRIS	6/92				
Carbon disulfide								ND			
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	1.00E-01	IRIS	9/90	2.00E-01	IRIS	8/95				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						

G-14

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
DCE, trans-1,2-								ND			
Sub-Chronic Reference Dose	(mg/kg/day)	2.00E-01	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	2.0E-02	IRIS	1/89	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
DDD								B2	IRIS	8/88	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	2.4E-01	IRIS	8/88	ND						
DDE								B2	IRIS	8/88	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	0.34	IRIS	8/88	ND						
DDT								B2	IRIS	5/91	
Sub-Chronic Reference Dose	(mg/kg/day)	5E-04	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	5.00E-04	IRIS	2/96	ND						
Cancer Slope Factor	(mg/kg/day)-1	0.34	IRIS	5/91	3.40E-01	IRIS	5/91				
delta-BHC								B2	IRIS	10/93	Used Tox Values for Gamma BHC (Lindane)
Sub-Chronic Reference Dose	(mg/kg/day)	3.00E-03	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	3.00E-04	IRIS	3/88	ND						
Cancer Slope Factor	(mg/kg/day)-1	1.3	HEAST	7/97	ND						
Dibenzo(a,h)anthracene								B2	IRIS	3/94	
Sub-Chronic Reference Dose	(mg/kg/day)	ND			ND						
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	7.30	NCEA	1/96	3.10	REG IV	11/95				

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
Chromium								ND			Cr+3 only; Effective date 9/3/98
Sub-Chronic Reference Dose	(mg/kg/day)	1.00E+00	HEAST	7/97	1.14E-06	NCEA/EPD	5/96				
Chronic Reference Dose	(mg/kg/day)	1.5E+00	IRIS	9/98	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Chromium Compounds, N.O.S.								A	IRIS	3/91	Cr+6 only; Particulates; Effective date 9/3/98
Sub-Chronic Reference Dose	(mg/kg/day)	2.00E-02	HEAST	7/97	1.14E-06	NCEA/EPD	5/96				
Chronic Reference Dose	(mg/kg/day)	3.00E-03	IRIS	9/98	2.9E-05	IRIS	9/98				
Cancer Slope Factor	(mg/kg/day)-1	ND			4.20E+01	IRIS	9/98				
Chrysene								B2	IRIS	3/94	
Sub-Chronic Reference Dose	(mg/kg/day)	ND			ND						
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	7.30E-03	NCEA	1/96	3.10E-03	REG IV	11/95				
Copper								D	IRIS	8/91	Chronic oral ref. dose based on MCL=1.3 mg/l.
Sub-Chronic Reference Dose	(mg/kg/day)	4.00E-02	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	4.00E-02	NCEA	6/94	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Cyanides (soluble salts and complexes) n.o.s.								D	IRIS	3/91	Toxicity values are for cyanide.
Sub-Chronic Reference Dose	(mg/kg/day)	2.00E-02	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	2.00E-02	IRIS	2/93	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						

91-9

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
Endosulfan sulfate								ND			
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Endosulfan-I								ND			Tox values are for Endo. I or II
Sub-Chronic Reference Dose	(mg/kg/day)	6.0E-03	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	6.0E-03	IRIS	10/94	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Endrin								D	IRIS	7/93	
Sub-Chronic Reference Dose	(mg/kg/day)	3.00E-04	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	3.00E-04	IRIS	4/91	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Endrin aldehyde								ND			
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Ethyl acetate								ND			
Sub-Chronic Reference Dose	(mg/kg/day)	9E+00	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	9.0E-01	IRIS	3/98							
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Ethylbenzene								D	IRIS	8/91	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	1.00E-01	IRIS	6/91	2.86E-01	IRIS	3/91				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						

G-17

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
Dibutyl phthalate								D	IRIS	2/93	
Sub-Chronic Reference Dose	(mg/kg/day)	1E+00	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	1.00E-01	IRIS	8/90	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Dichlorodifluoromethane								ND			
Sub-Chronic Reference Dose	(mg/kg/day)	9E-01	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	2.0E-01	IRIS	11/95	4E-02	HEAST	7/97				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Dichloroethylene, N.O.S.								ND			Value for cis 1,2-DCE isomer from HEAST.
Sub-Chronic Reference Dose	(mg/kg/day)	1.00E-01	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	1.00E-02	HEAST	7/97	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Dieldrin								B2	IRIS	7/93	
Sub-Chronic Reference Dose	(mg/kg/day)	5.00E-05	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	5.00E-05	IRIS	9/90	ND						
Cancer Slope Factor	(mg/kg/day)-1	16	IRIS	7/93	1.61E+01	IRIS	7/93				
Diethyl phthalate								D	IRIS	2/93	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	8E-01	IRIS	2/93							
Cancer Slope Factor	(mg/kg/day)-1										
Dioctyl phthalate								ND			
Sub-Chronic Reference Dose	(mg/kg/day)	2.00E02	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	2.00E-02	HEAST	7/97	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						

81-G

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
Indeno(1,2,3-cd)pyrene								B2	IRIS	3/94	
Sub-Chronic Reference Dose	(mg/kg/day)	ND			ND						
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	7.30E-01	NCEA	1/96	3.10E-01	REG IV	11/95				
Isopropylbenzene								ND			
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	1E-01	IRIS	10/97	1.14E-01	IRIS	10/97				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Lead								B2	IRIS	11/93	
Sub-Chronic Reference Dose	(mg/kg/day)	ND			ND						
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Lindane								B2	IRIS	10/93	gamma-BHC
Sub-Chronic Reference Dose	(mg/kg/day)	3.00E-03	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	3.00E-04	IRIS	3/88	ND						
Cancer Slope Factor	(mg/kg/day)-1	1.3	HEAST	7/97	ND						
Malathion								ND			
Sub-Chronic Reference Dose	(mg/kg/day)	2E-02	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	2E-02	IRIS	1/92	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Mercury								D	IRIS	5/95	Most stringent of ele. Hg and mercuric chloride.
Sub-Chronic Reference Dose	(mg/kg/day)	3E-03	HEAST	7/97	8.57E-5	HEAST	7/97				
Chronic Reference Dose	(mg/kg/day)	3.00E-04	IRIS	5/95	8.6E-05	IRIS	6/95				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						

6-19

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
Fluoranthene								D	IRIS	12/90	
Sub-Chronic Reference Dose	(mg/kg/day)	4.00E-01	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	4.00E-02	IRIS	7/93	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Fluorene								D	IRIS	12/90	
Sub-Chronic Reference Dose	(mg/kg/day)	4.00E-01	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	4.00E-02	IRIS	11/90	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Formaldehyde								B1	IRIS	5/91	
Sub-Chronic Reference Dose	(mg/kg/day)	2E-01	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	2.0E-01	IRIS	9/90	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			4.6E-02	IRIS	5/91				
Heptachlor								B2	IRIS	7/93	
Sub-Chronic Reference Dose	(mg/kg/day)	5.00E-04	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	5.00E-04	IRIS	3/91	ND						
Cancer Slope Factor	(mg/kg/day)-1	4.5	IRIS	7/93	4.60E+00	IRIS	7/93				
Heptachlor epoxide								B2	IRIS	7/93	
Sub-Chronic Reference Dose	(mg/kg/day)	1.3E-05	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	1.3E-05	IRIS	3/91	ND						
Cancer Slope Factor	(mg/kg/day)-1	9.1E+0	IRIS	7/93	9.1E+0	IRIS	7/93				
Hexachlorobenzene								B2	IRIS	11/96	
Sub-Chronic Reference Dose	(mg/kg/day)	5.00E-04	NCEA	95	ND						
Chronic Reference Dose	(mg/kg/day)	8.00E-04	IRIS	4/91	ND						
Cancer Slope Factor	(mg/kg/day)-1	1.6E0	IRIS	11/96	1.60E+00	IRIS	11/96				

G.20

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
p-Cresol								C	IRIS	8/91	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	5.00E-03	HEAST	5/95	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Parathion								C	IRIS	4/95	
Sub-Chronic Reference Dose	(mg/kg/day)	6E-03	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	6E-03	HEAST	7/97	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
PCB-1016								B2	IRIS	6/97	
Sub-Chronic Reference Dose	(mg/kg/day)	ND									
Chronic Reference Dose	(mg/kg/day)	7.00E-05	IRIS	11/96							
Cancer Slope Factor	(mg/kg/day)-1	ND									
PCB-1221								B2	IRIS	6/97	
Sub-Chronic Reference Dose	(mg/kg/day)	ND									
Chronic Reference Dose	(mg/kg/day)	ND									
Cancer Slope Factor	(mg/kg/day)-1	ND									
PCB-1232								B2	IRIS	6/97	
Sub-Chronic Reference Dose	(mg/kg/day)	ND									
Chronic Reference Dose	(mg/kg/day)	ND									
Cancer Slope Factor	(mg/kg/day)-1	ND									
PCB-1242								B2	IRIS	6/97	
Sub-Chronic Reference Dose	(mg/kg/day)	ND									
Chronic Reference Dose	(mg/kg/day)	ND									
Cancer Slope Factor	(mg/kg/day)-1	ND									

G-21

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
Methoxychlor								D	IRIS	10/90	
Sub-Chronic Reference Dose	(mg/kg/day)	5.00E-03	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	5.00E-03	IRIS	8/91	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Methyl Parathion								ND			
Sub-Chronic Reference Dose	(mg/kg/day)	2E-03	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	2.5E-04	IRIS	1/92	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Methylene chloride								B2	IRIS	2/95	
Sub-Chronic Reference Dose	(mg/kg/day)	6E-02	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	6.00E-02	IRIS	3/88	8.57E-01	HEAST	7/97				
Cancer Slope Factor	(mg/kg/day)-1	7.50E-03	IRIS	2/95	1.64E-03	IRIS	2/95				
Naphthalene								C	IRIS	9/98	Effective date 09/17/98
Sub-Chronic Reference Dose	(mg/kg/day)	4.0E-02	NCEA/EP	1/96	ND						
Chronic Reference Dose	(mg/kg/day)	2.0E-02	IRIS	9/98	8.6E-04	IRIS	9/98				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Nickel								ND			Inh. cancer slope factor for nickel refining dust.
Sub-Chronic Reference Dose	(mg/kg/day)	2.0E-02	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	2.00E-02	IRIS	12/96	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			8.40E-01	HEAST	5/95				
o-Cresol								C	IRIS	8/91	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	5.00E-02	IRIS	9/90	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						

G-22

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
Polychlorinated biphenyls, NOS								B2	IRIS	11/96	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	2.0E-05	IRIS	11/96	ND						
Cancer Slope Factor	(mg/kg/day)-1	2.0E+00	IRIS	11/96	4.00E-01	IRIS					
Pyrene								D	IRIS	1/91	
Sub-Chronic Reference Dose	(mg/kg/day)	3.00E-01	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	3.00E-02	IRIS	7/93	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Pyridine								ND			
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	1.0E-03	IRIS	6/89	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Selenium								D	IRIS	7/93	
Sub-Chronic Reference Dose	(mg/kg/day)	5.00E-03	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	5.00E-03	IRIS	9/91	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Silver								D	IRIS	6/89	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	5.00E-03	IRIS	12/96	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Silvex								D	IRIS	1/92	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	8E-03	IRIS	1/92	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						

G-23

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Source	Cancer Date	Comments
PCB-1248								B2	IRIS	6/97	
Sub-Chronic Reference Dose	(mg/kg/day)	ND									
Chronic Reference Dose	(mg/kg/day)	ND									
Cancer Slope Factor	(mg/kg/day)-1	ND									
PCB-1254								B2	IRIS	6/97	
Sub-Chronic Reference Dose	(mg/kg/day)	5.00E-05	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	2.00E-05	IRIS	11/96	5.00E-05	HEAST	7/97				
Cancer Slope Factor	(mg/kg/day)-1	2.00E+00	IRIS	6/97	4.00E-01	IRIS	6/97				
PCB-1260								B2	IRIS	6/97	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	2.00E+00	IRIS	6/97	4.00E-01	IRIS	6/97				
Pentachlorophenol								B2	IRIS	7/93	
Sub-Chronic Reference Dose	(mg/kg/day)	3E-02	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	3E-02	IRIS	2/93	ND						
Cancer Slope Factor	(mg/kg/day)-1	1.2E-01	IRIS	7/93	ND						
Phenanthrene								D	IRIS	12/90	Based on pyrene
Sub-Chronic Reference Dose	(mg/kg/day)	3.00E-01	HEAST(a)	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	3.00E-02	IRIS(a)	7/93	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Phenol								D	IRIS	11/90	
Sub-Chronic Reference Dose	(mg/kg/day)	6E-01	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	6.00E-01	IRIS	2/90	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						

G-24

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
Styrene								ND			
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	2.00E-01	IRIS	9/90	2.86E-01						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Tetrachloroethene								C-B2	NCEA	5/96	
Sub-Chronic Reference Dose	(mg/kg/day)	1.0E-01	HEAST	7/97	ND						
Chronic Reference Dose	(mg/kg/day)	1.00E-02	IRIS	3/88	ND						
Cancer Slope Factor	(mg/kg/day)-1	5.2E-02	NCEA/EP	5/96	2.0E-03	NCEA/EPD	5/96				
Thallium								D	IRIS	9/90	
Sub-Chronic Reference Dose	(mg/kg/day)	8.00E-04	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	8.00E-05	IRIS	9/90	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Toluene								D	IRIS	2/94	
Sub-Chronic Reference Dose	(mg/kg/day)	2.00E+00	HEAST	7/97	2.86E01	NCEA/EPD	5/96				
Chronic Reference Dose	(mg/kg/day)	2.00E-01	IRIS	4/94	1.14E-01	IRIS	8/92				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Toxaphene								B2	IRIS	1/91	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	1.1	IRIS	1/91	1.1	IRIS	1/91				
Trichloroethene								B2	NCEA	5/96	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	1.1E-02	NCEA/EP	5/96	6.0E-03	NCEA/EPD	5/96				

G-25

Toxicity Values Used in Calculating Type 1, 2, 3, and 4 Risk Reduction Standards

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance		Oral Dose	Oral Source	Oral Date	Inhalation Dose	Inhalation Source	Inhalation Date	Cancer Class	Cancer Class Source	Cancer Class Date	Comments
Trichlorofluoromethane								ND			
Sub-Chronic Reference Dose	(mg/kg/day)	7.00E-01	HEAST	7/97							
Chronic Reference Dose	(mg/kg/day)	3.00E-01	IRIS	8/92	2.0E-01	HEAST	5/95				
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Vanadium {reference only, not regulated subst								ND			
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	7.0E-03	HEAST	5/95	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Vinyl Chloride								A	HEAST	5/95	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	ND			ND						
Cancer Slope Factor	(mg/kg/day)-1	1.9E00	HEAST	5/95	3.0E-01	HEAST	5/95				
Xylene (total)								D	IRIS	3/91	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	2.00E+00	IRIS	9/87	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Xylenes								D	IRIS	3/91	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	2.00E+00	IRIS	9/87	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						
Zinc								D	IRIS	2/91	
Sub-Chronic Reference Dose	(mg/kg/day)										
Chronic Reference Dose	(mg/kg/day)	3E-01	IRIS	10/92	ND						
Cancer Slope Factor	(mg/kg/day)-1	ND			ND						

Notes:

(a) =	Based on Pyrene as surrogate compound.	C =	Possible Human Carcinogen	ND =	No Data
A =	Human Carcinogen	D =	Not Classifiable as Human Carcinogen	Heast =	Health Effects Assessment Summary Table
B1 =	Probable Human Carcinogen	E =	Evidence of non-carcinogenicity	IRIS =	Integrated Risk Information System
B2 =	Probable Human Carcinogen	NA =	Not Applicable	NCEA =	National Center for Environmental Assessment

PHYSICAL CHEMICAL PROPERTIES BY SUBSTANCE

Physical Chemical Properties by Substance

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance	Volatilization Factor (m^3/kg)	Kas cm^3/g	Flag	Kd cm^3/g	Flag	Koc cm^3/g	Flag	Molecular Diffusivity cm^2/sec	Flag	Henry's Law Constant atm-m^3/mo	Flag	Molecular Weight g/mol	Flag	Comments
1,1,1-Trichloroethane	598.16	3.17E+00		22.00E-02		11.00E+00		78.00E-03		17.00E-03		13.30E+01		
1,1,2,2-Tetrachloroethane	5,169.58	7.55E-02		1.9E-01		9.5E+00		7.1E-02		3.5E-04		1.68E+02		
1,1,2-Trichloroethane	2,155.75	3.73E-01		10.00E-02		50.00E-01		78.00E-03		91.00E-05		13.30E+01		
1,1-Dichloroethane	556.40	3.64E+00		63.00E-03		31.50E-01		74.20E-03		56.00E-04		99.00E+00		
1,1-Dichloroethene	254.75	8.88E+00		12.00E-02		59.00E-01		90.00E-03		26.00E-03		96.90E+00		
1,2,4-Trichlorobenzene	17,434.28	1.59E+02		36.00E-01		18.00E+01		30.00E-03		14.00E-04		18.15E+01		
1,2-Dichloroethane	992.88	1.15E+00		35.00E-03		17.50E-01		10.40E-02		98.00E-05		98.96E+00		
1,2-Dichloropropane	1,054.09	1.32E+00		87.00E-03		43.50E-01		78.20E-03		28.00E-04		11.30E+01		
2,4-Dimethylphenol	0.00	1.96E-04		42.10E-02		21.00E+00		58.40E-03		20.00E-07		12.22E+01		
2,4-Dinitrotoluene	0.00	2.01E-05		19.00E-02		95.00E-01		20.30E-02		93.00E-09		18.20E+01		
2,6-Dinitrotoluene	0.00	2.20E-04		14.00E-02		69.00E-01		32.70E-03		75.00E-08		18.20E+01		
2-Butanone	1,570.17	6.04E-01		38.00E-04		19.00E-02		87.00E-03		56.00E-06		72.11E+00		
Acenaphthene	88,109.52	4.45E-04		13.60E+00		71.40E+01		42.10E-03		15.00E-05		15.42E+01		
Acenaphthylene	53,941.59	7.46E-04		62.00E-01		30.90E+01		67.00E-03		11.00E-05		15.20E+01		
Acetone	833.26	1.33E+00		12.00E-04		58.00E-03		12.40E-02		39.00E-06		58.10E+00		
Aldrin	0.00	1.42E-06		49.00E+02		24.50E+04		13.20E-03		17.00E-05		36.50E+01		
alpha-BHC	0.00	1.77E-04		25.00E-01		12.30E+01		14.20E-03		11.00E-06		29.08E+01		
Anthracene	315,151.80	4.52E-05		59.00E+00		29.50E+02		32.40E-03		65.00E-06		17.80E+01		
Antimony	0.00			45.00E+00		22.50E+02		15.60E-03				12.20E+01		
Arsenic	0.00			20.00E+01		10.00E+03						74.92E+00		
Barium	0.00			41.00E+00		20.50E+02						13.70E+01		
Benzene	789.58	1.91E+00		12.00E-02		59.00E-01		88.00E-03		56.00E-04		78.10E+00		
Benzene, 1,4-dichloro-	5,028.56	8.20E-02		1.2E+00		6.00E+01		6.9E-02		2.4E-03		1.47E+02		
Benzo(a)anthracene	0.00	1.71E-07		80.00E+01		40.12E+03		51.00E-03		34.00E-07		22.83E+01		
Benzo(a)pyrene	0.00	2.28E-08		20.00E+02		10.15E+04		43.00E-03		11.00E-07		25.20E+01		

C-27

Physical Chemical Properties by Substance

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance	Volatilization Factor (m^3/kg)	Kas cm^3/g	Flag	Kd cm^3/g	Flag	Koc cm^3/g	Flag	Molecular Diffusivity cm^2/sec	Flag	Henry's Law Constant atm-m^3/mo	Flag	Molecular Weight g/mol	Flag	Comments
Benzo(b)fluoranthene	0.00	1.83E-06		25.00E+02		12.40E+04		22.60E-03		11.00E-05		25.20E+01		
Benzo(ghi)perylene	0.00	7.49E-10		77.00E+02		38.60E+04		50.00E-03		14.10E-08		27.63E+01		
Benzo(k)fluoranthene	0.00	1.37E-08		25.00E+02		12.40E+04		22.60E-03		82.90E-08		25.20E+01		
Beryllium	0.00			79.00E+01		39.50E+03						90.10E-01		
beta-BHC	0.00	1.21E-05		25.00E-01		12.60E+01		14.20E-03		74.00E-08		29.08E+01		
bis(2-Ethylhexyl) phthalate	0.00	1.21E-10		34.00E+03		15.00E+05		35.10E-03		10.00E+06		39.06E+01		
Butyl benzyl phthalate	0.00	4.85E-07		11.00E+01		57.00E+02		17.40E-03		13.00E-07		31.20E+01		
Cadmium	0.00			75.00E+00		37.50E+02						11.20E+01		
Carbon disulfide	166.37	1.35E+01		91.00E-03		45.50E-01		10.40E-02		30.00E-03		76.14E+00		
Carbon tetrachloride	556.87	3.51E+00		35.00E-02		17.50E+00		78.00E-03		30.00E-03		15.38E+01		
Chlordane	0.00	8.30E-06		24.00E+01		12.00E+03		11.80E-03		49.00E-06		40.98E+01		
Chlorobenzene	2,323.16	3.45E-01		44.00E-02		22.00E+00		73.00E-03		37.00E-04		11.30E+01		
Chloroform	728.75	1.90E+00		80.00E-03		40.00E-01		10.40E-02		37.00E-04		11.94E+01		
Chromium	0.00			19.00E+00		95.00E+01						52.00E+00		
Chrysene	0.00	8.77E-09		80.00E+01		40.12E+03		24.80E-03		94.60E-06		22.83E+01		
Copper	0.00			43.00E+01		21.40E+03						63.55E+00		
DCE, trans-1,2-	586.10	3.50E+00		11.00E-02		53.00E-01		70.70E-03		94.00E-04		96.94E+00		
DDD	0.00	8.26E-08		20.00E+02		99.20E+04		16.90E-03		40.00E-07		32.00E+01		
DDE	0.00	9.74E-08		88.00E+02		44.20E+04		14.40E-03		21.00E-06		31.80E+01		
DDT	0.00	6.32E-08		53.00E+02		26.30E+04		13.70E-03		81.00E-07		35.45E+01		
delta-BHC	0.00	3.84E-06		46.00E-01		23.00E+01		14.20E-03		43.00E-08		29.08E+01		
Dibenzo(a,h)anthracene	0.00	9.05E-12		75.00E+02		38.00E+04		20.20E-03		18.00E-09		27.84E+01		
Dibutyl phthalate	0.00	5.67E-10		68.00E+00		34.00E+02		43.80E-03		94.00E-11		27.84E+01		
Dichloroethylene, N.O.S.	627.24	3.13E+00		90.50E-03		45.30E-01		72.20E-03		69.00E-04		96.94E+00		Average values for cis and trans 1,2-DCE

G-28

Physical Chemical Properties by Substance

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance	Volatilization Factor (m^3/kg)	Kas cm^3/g	Flag	Kd cm^3/g	Flag	Koc cm^3/g	Flag	Molecular Diffusivity cm^2/sec	Flag	Henry's Law Constant atm-m^3/mo	Flag	Molecular Weight g/mol	Flag	Comments
														isomers.
Dieldrin	0.00	1.45E-05		43.00E+00		21.40E+02		12.50E-03		15.00E-06		38.09E+01		
Dioctyl phthalate	0.00	1.62E-08		17.00E+04		84.00E+05		15.10E-03		6.70E-05		39.06E+01		
Endosulfan sulfate	0.00	4.53E-02		19.00E-01		95.00E+00		48.00E-03		21.00E-04		42.30E+01		
Endosulfan-i	0.00	1.05E-04		43.00E-01		21.50E+01		11.50E-03		11.00E-06		40.70E+01		
Endrin	0.00	1.25E-05		25.00E+00		1.25E+03		12.50E-03		75.00E-07		38.09E+01		
Endrin aldehyde	0.00	9.31E-07		1.7E+01		8.5E+02		4.7E-02		3.86E-07		3.81E+02		Hand MW obtained from Montgomery and Welkom/1989
Ethyl acetate	17.14	6.04E-01		9.5E-03		4.75E-01		7.3E+02		1.4E-04		8.81E+01		Di reference - Tech. Support Doc. for HWIR (8/95)
Ethylbenzene	2,001.63	4.44E-01		73.00E-02		36.50E+00		75.00E-03		79.00E-04		10.60E+01		
Fluoranthene	0.00	3.06E-06		22.00E+01		10.80E+03		30.20E-03		16.00E-06		20.23E+01		
Fluorene	205,373.40	9.50E-05		28.00E+00		13.76E+02		36.30E-03		64.00E-06		16.62E+01		
Formaldehyde	0.00	7.74E-03		1.8E-03		9.00E-02		1.8E-01		3.4E-07		3.00E+01		
Heptachlor	0.00	2.13E-02		29.00E+02		14.25E+04		11.20E-03		15.00E-01		37.33E+01		
Heptachlor epoxide	0.00	2.37E-06		16.00E+01		82.00E+02		13.20E-03		95.00E-07		38.90E+01		
Hexachlorobenzene	0.00	4.92E-04		11.00E+01		55.00E+02		54.20E-03		13.00E-04		28.50E+01		
Indeno(1,2,3-cd)pyrene	0.00	9.52E-09		69.00E+02		34.00E+04		19.00E-03		16.00E-07		27.63E+01		
Lead	0.00											20.72E+01		
Lindane	0.00	2.68E-04		21.00E-01		10.70E+01		14.20E-03		14.00E-06		29.08E+01		
Malathion	0.00			13.00E-01						49.00E-10		33.00E+01		
Mercury	22,936.03	8.99E-03		52.00E+00		26.00E+02		30.70E-03		11.50E-03		20.06E+01		Elemental mercury
Methoxychlor	0.00	3.28E-06		20.00E+01		98.60E+02		15.60E-03		16.00E-06		34.57E+01		

G-29

Physical Chemical Properties by Substance

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance	Volatilization Factor (m^3/kg)	Kas cm^3/g	Flag	Kd cm^3/g	Flag	Koc cm^3/g	Flag	Molecular Diffusivity cm^2/sec	Flag	Henry's Law Constant atm-m^3/mo	Flag	Molecular Weight g/mol	Flag	Comments
Methylene chloride	465.97	3.76E+00		24.00E-03		12.00E-01		10.10E-02		22.00E-04		84.90E+00		
Naphthalene	22,350.98	4.93E-03		40.00E-01		20.10E+01		59.00E-03		48.00E-05		12.82E+01		
Nickel	0.00			65.00E+00		32.50E+02						58.69E+00		
o-Cresol	0.00	2.72E-04		18.00E-02		90.00E-01		74.00E-03		12.00E-07		10.81E+01		
p-Cresol	0.00	1.96E-04		17.00E-02		83.00E-01		78.00E-03		79.20E-08		10.81E+01		
Phenanthrene	397,966.82	1.60E-05		59.00E+00		29.50E+02		57.40E-03		23.00E-06		17.80E+01		
Phenol	0.00	2.85E-04		57.00E-03		29.00E-01		82.00E-03		39.70E-08		94.11E+00		
Polychlorinated biphenyls, N	0.00	0		1.7E+03		0		0		2.6E-03		3.28E+02		MW is for PCB-1254
Pyrene	0.00	4.39E-07		21.00E+01		10.50E+03		27.20E-03		11.00E-06		20.23E+01		
Pyridine	0.00	4.01E-02		9.1E-03		4.6E-01		9.1E-02		8.9E-06		7.91E+01		
Selenium	0.00			30.00E+01		15.00E+03		27.20E-03				78.96E+00		
Silver	0.00			83.00E-01		41.50E+01						10.79E+01		
Styrene	5,273.34	7.26E-02		16.00E-01		78.00E+00		71.00E-03		28.00E-04		10.42E+01		
Tetrachloroethene	756.40	2.38E+00		31.00E-02		15.50E+00		72.00E-03		18.00E-03		16.58E+01		
Tetrachloroethylene	756.40	2.38E+00		31.00E-02		15.50E+00		72.00E-03		18.00E-03		16.58E+01		
Thallium	0.00			15.00E+02		75.00E+03						20.44E+01		
Toluene	1,388.73	7.52E-01		36.00E-02		18.00E+00		87.00E-03		66.00E-04		92.10E+00		
Toxaphene	0.00	4.82E-07		51.00E+01		26.00E+03		11.60E-03		60.00E-07		41.32E+01		
Trichloroethylene	1,089.04	1.24E+00		33.00E-02		16.50E+00		79.00E-03		10.00E-03		13.14E+01		
Trichlorofluoromethane	151.76	1.66E+01		2.4E-01		1.2E+01		8.70E-02		9.7E-02		1.37E+02		
Vanadium {reference only, n	0.00	0		4.5E+01		0		0		0		5.89E+01		
Vinyl chloride	80.54	2.99E+01		37.00E-03		18.50E-01		10.60E-02		27.00E-03		62.50E+00		
Xylene (total)	2,206.86	3.57E-01		77.30E-02		38.65E+00		78.00E-03		67.30E-04		10.60E+01		Average values for o, m, and p isomers
Xylenes	2,206.86	3.57E-01		77.30E-02		38.65E+00		78.00E-03		67.30E-04		10.60E+01		Average values for o,

G-30

Physical Chemical Properties by Substance

Hunter AAF, FTA ; Savannah, Georgia ; HSI No.:

HSRA-regulated Substance	Volatilization Factor (m^3/kg)	Kas cm^3/g	Flag	Kd cm^3/g	Flag	Koc cm^3/g	Flag	Molecular Diffusivity cm^2/sec	Flag	Henry's Law Constant atm-m^3/mo	Flag	Molecular Weight g/mol	Flag	Comments
Zinc	0.00			62.00E+00		31.00E+02						65.38E+00		m, and p isomers

G-3 /

Flags:
M = Parameter was modified from default value.

Notes:
Kas = Soil/Air Partition Coefficient
Kd = Soil-Water Partition Coefficient
Koc = Organic Carbon Partition Coefficient

APPENDIX H

RESPONSE TO COMMENTS SUPPORTING DOCUMENTATION

- **Documentation of Newspaper Publication**
- **Statistical Data and Statistical Plots**
- **Revised GA EPD Table, Revised Volatilization Factors (VF)**
- **Revised Risk Reduction Standards for Response to Comment**

DOCUMENTATION OF NEWSPAPER PUBLICATION

AFFIDAVIT OF PUBLICATION
SAVANNAH MORNING NEWS

STATE OF GEORGIA
CHATHAM COUNTY

Personally appeared before me, JOAN T. JENKINS, to me known, who being sworn, deposes and says:

That she/he is the CLASSIFIED ADV. SUPV. of Southeastern Newspaper Corporation, a Georgia corporation, doing business in Chatham County, Georgia under the trade name of Savannah Morning News, a daily newspaper published in said county;

That she/he is authorized to make affidavits of publication on behalf of said published corporation;

That said newspaper is of general circulation in said county and in the area adjacent thereto;

That he has reviewed the regular editions of the Savannah Morning News, published

4-3, 2000, _____ 2000,

_____, 2000, _____ ,2000,

and finds that the following advertisement, to-wit:

PUBLIC NOTICE
Hunter Army Airfield
Former Fire Training
Area Site
Hazardous Site Inventory
Site Number 10395
Hunter Army Airfield, Georgia
The Georgia Environmental Protection Division, Department of Natural Resources, State of Georgia, (EPD), has placed this site on the Hazardous Site Inventory pursuant to its authority under the Hazardous Site Response Act and Rules promulgated thereunder. As required by the Rules for Hazardous Site Response, the responsible party for this site has investigated the site and submitted a compliance status report to EPD summarizing the results of that investigation. EPD is currently reviewing the compliance status report to determine if corrective action is needed for regulated substances that have been released at this site. Before EPD decides whether corrective action is needed, the public has the opportunity to review the compliance status report and provide comments to EPD about the report.

In accordance with Rule 391-3-19-.06(5)(a) of the Georgia Rules for Hazardous Site Response, notice is hereby made of a 30-day public comment period (beginning on the date of this published notice) on the compliance status report for the Hunter Army Airfield Former Fire Training Area Site. Written or oral comments can be made to: Chen Georgio, Environmental Protection Division, Department of Natural Resources, 205 Butler St., S.E., Suite 1462, Atlanta, Ga. 30334, 404-657-8600.

The compliance status report for the Hunter Army Airfield Former Fire Training Area Site may be viewed and copied at HQS 3D Infantry Division (Mechanized) and Fort Stewart, Directorate of Public Works Bldg. 1137, 1550 Cochran Dr., Fort Stewart, Ga. 31314-4927. The designated contact person for the Hunter Army Airfield is: Mr. Thomas C. Fry, Directorate of Public Works Bldg. 1137, HQS 3D Infantry Division (Mechanized) and Fort Stewart, 1550 Cochran Dr., Fort Stewart, Ga. 31314-4927

Joan T. Jenkins
(Deponent)

Appeared in each of said editions.

Sworn to and subscribed
Before me this 3 day
of April, 2000

Lillie D. Lang
Notary Public, Chatham County, Ga.
LILLIE D. LANG
Notary Public, Chatham County, Ga.
My Commission Expires Apr. 8, 2001

H-1

PUBLISHER'S AFFIDAVIT

ACCOUNT NAME. LAW ENVIRONMENTAL INC.

ACCOUNT NO. L-130720

STATE OF GEORGIA
COUNTY OF FULTON

JENNIFER WHITE, personally appeared before me, the undersigned Notary Public, who states she is a Contract Administration Assistant for **THE ATLANTA JOURNAL AND CONSTITUTION** newspaper, a newspaper of general circulation published in the City of Atlanta, Georgia, and who further states under oath that the Advertisement attached hereto and made part of this affidavit appeared in The Atlanta Journal and The Atlanta Constitution on the following dates:
APRIL 4, 2000.

SWORN TO AND SUBSCRIBED BEFORE ME,

THIS 4th DAY OF April 2000.

RWANDA W. MOORE NOTARY PUBLIC SPALDING COUNTY, GA

Rwanda W. Moore
(NOTARY SIGNATURE)

MY COMMISSION EXPIRES
MARCH 12, 2002

H-2

ww.mercer.edu/ssbe/atlanta
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L OF BUSINESS AND ECONOMICS
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origin, sex, age or disability.

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lines: 72 Hours prior to publication

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Jennifer Donnelly, Director
P.J. Osgood, Director

)
CITIES

LEGAL NOTICES

404-526-5273; Fax 404-526-5904 Monday-Friday 8 a.m.-5 p.m. Deadlines: 72 Hours prior to publication
Contact the Legal Advertising Representative to place your legal notice.
Ad also appears on ajcclassifieds.com

CITY OF ATLANTA
ADVERTISEMENT FOR BIDS

Sealed bids for FC-7141-99, AIRCRAFT RESCUE & FIRE FIGHTING TRAINING FACILITY - SITE PREPARATION (PHASE) I will be received by the Director or designated staff of the Bureau of Purchasing and Real Estate, Suite 1790, 55 Trinity Avenue, SW, City Hall South, Atlanta, Georgia 30335-0307, which must be time-stamped no later than 1:59 P.M., Wednesday, May 10, 2000.

ABSOLUTELY NO BIDS WILL BE ACCEPTED AFTER 1:59 P.M.

Bids will be publicly opened and read at 2:00 P.M. in Suite 1900, 1st Floor, 55 Trinity Avenue, SW, City Hall South, Atlanta, Georgia.

SCOPE OF WORK: The work under this contract shall include, but not be limited to: earthwork consisting of clearing, grubbing, excavation, embankment, erosion control, seeding, mulching and watering. Clearing and grubbing includes approximately 10 acres; on-site excavation approximately 50,000 cubic yards; borrow excavation approximately 80,000 cubic yards and seeding approximately 10 acres. Demolition and removal of pipe and existing pavement, curb and gutter; provide concrete retaining wall, curb and gutter, storm sewer and catch basin.

A Pre-Bid Conference and Site Tour will be held on Wednesday, April 26, 2000, 10:00 A.M., at the Hartsfield Atlanta International Airport, Executive Conference Center, Atrium Suite 300, Classroom 2. Available for discussion at this meeting will be a representative from the Bureau of Purchasing and Real Estate, Office of Contract Compliance and the Department of Aviation. Prospective bidders are urged to attend the Pre-Bid Conference in order to clarify questions regarding the bid documents.

General instructions, plans and specifications for this project will be available for review and/or purchase at a cost of $100.00 each, Tuesday, April 4, 2000, after 2:00 P.M., and thereafter Monday through Friday between hours of 7:00 A.M. - 12:00 noon & 1:00 P.M. - 5:00 P.M., ONLY in the Bureau of Purchasing and Real Estate's Plan Room, Suite 1900. All checks and money orders shall be made to the City of Atlanta. Payment for documents represent reproduction costs and therefore is non refundable.

If you should have any questions/concerns, please contact Carolyn Chavis at (404) 330-6204.

The City of Atlanta reserves the right to reject any and all bids and to waive any technicalities.

PUBLIC NOTICE

The Joint Commission on Accreditation of Healthcare Organizations will conduct an accreditation survey of this organization on May 4-5, 2000. The purpose of the survey will be to evaluate the organization's compliance with nationally established Joint Commission standards. The survey results will be used to determine whether, and the conditions under which accreditation should be awarded the organization.

Joint Commission standards deal with organizational quality of care issues and the safety of the environment in which care is provided. Anyone believing that he or she has pertinent and valid information about such matters may request a public information interview with the Joint Commission's field representatives at the time of the survey. Information presented at the interview will be carefully evaluated for relevance to the accreditation process. Requests for a public information interview must be made in writing and should be sent to the Joint Commission no later than five working days before the survey begins. The request must also indicate the nature of the information to be provided at the interview. Such requests should be addressed to:

Division of Accreditation Operations
Organization Liaison
Joint Commission on Accreditation of Healthcare Organizations
One Renaissance Boulevard
Oakbrook Terrace, IL 60181

The Joint Commission will acknowledge such requests in writing or by telephone and will inform the organization of the request for any interview. The organization will, in turn, notify the interviewee of the date, time, and place of the meeting.

This notice is posted in accordance with the Joint Commissions requirements and may not be removed before the survey is completed.

LEGAL NOTICE
INVITATION TO BID NUMBER 509-002-87959
FACILITY MAINTENANCE SERVICES

Bids will received by the Georgia State University Purchasing Department, Suite 901, One Park Place South, Atlanta, GA 30303 until April 14, 2000 at 11:00 A.M. for providing facility maintenance services for the Georgia State University Alpharetta campus. A mandatory pre-bid conference will be held April 7, 2000, 10:00 A.M. at the Alpharetta campus. Specifications may be obtained from the GSU Purchasing Department at the above address.

Larry McCalop
Purchasing Department
(404) 651-2200

NOTICE OF OPPORTUNITY

The Coosa Valley Regional Development Center (RDC) is engaging in competitive negotiations to secure proposals for a transportation operator for Department of Human Resources (DHR) Transportation in Floyd, Paulding, and Polk Counties, as well as a separate proposal for Murray County.

Interested parties should contact the RDC at P. O. Box 1793, Rome, Georgia 30162-1793 or call the DHR office at (706) 802-5388.

An informational session will be held at 10:00 A.M. on Tuesday, April 11, 2000 in the Conference Room at the Coosa Valley RDC offices, located at 1 Jackson Hill Drive, Rome, Georgia.

Proposals must be received no later than 5:00 P.M., Monday, May 1, 2000, in the offices of the Coosa Valley RDC.

IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION

UNITED STATES OF AMERICA,
Plaintiff,
v.
JAMES E. JORDAN, III
Defendant.

CRIMINAL ACTION
NO. 1:98-CR-387

NOTICE OF ENTRY OF FORFEITURE

NOTICE IS HEREBY GIVEN that on September 14, 1999, a money judgment for $250,000 was entered against James E. Jordan, III in a preliminary Order of Forfeiture.

The United States intends to collect and dispose of the money judgment in such manner as the United States Attorney General may direct.

Any person having a legal interest in the money judgment must, WITHIN THIRTY (30) DAYS of receipt of this notice, file a petition as provided by 21 U.S.C. Section 853 (n). The petition shall be filed with the clerk of the U.S. District Court, at the following location: 2211 U.S. Courthouse, 75 Spring Street, S.W., Atlanta, Georgia 30303. A copy of the petition also shall be served upon the United States as follows: DAHIL D. GOSS, Assistant U.S. Attorney, 1800 U.S. Courthouse, 75 Spring Street, S.W., Atlanta, Georgia 30335.

In addition to or in lieu of, filing a petition with the Clerk of the Court, all persons or entities having an interest in the money judgment may submit a petition for Remission or Mitigation of the forfeiture for a non-judicial determination of their claim pursuant to, and in accordance with, 28 C.F.R. 9.1 et seq. A Petition for Remission or Mitigation must be addressed to the Attorney General, US Department of Justice, Washington, D.C., 20530 and the Assistant U.S. Attorney listed above. A copy of the petition must also be sent to the Federal Bureau of Investigation, ATTN: Forfeiture Unit, P. O. Box 98129, Atlanta, Georgia 30359-1828.

IF YOU HAVE AN INTEREST IN THE MONEY JUDGMENT AND YOU FAIL TO FILE A PETITION TO ASSERT YOUR RIGHT, TITLE OR INTEREST IN THE ABOVE-DESCRIBED MONEY JUDGMENT, WITHIN THIRTY (30) DAYS OF THIS NOTICE, YOUR RIGHT, TITLE AND INTEREST IN THE MONEY JUDGMENT SHALL BE LOST AND FORFEITED TO THE UNITED STATES.

PUBLIC NOTICE
Hunter Army Airfield Former Fire Training Area Site
Hazardous Site Inventory Site Number 18395
Hunter Army Airfield, Georgia 31409

The Georgia Environmental Protection Division, Department of Natural Resources, State of Georgia (EPD) has placed this site on the Hazardous Site Inventory pursuant to its authority under the Hazardous Site Response Act and Rules promulgated thereunder. As required by the Rules for Hazardous Site Response, the responsible party for this site has investigated the site and submitted a compliance status report to EPD summarizing the results of that investigation. EPD is currently reviewing the compliance status report to determine if corrective action is needed for regulated substances that have been released at this site. Before EPD decides whether corrective action is needed, the public has the opportunity to review the compliance status report and provide comments to EPD about the report.

In accordance with Rule 391-3-19-.06(5)(a) of the Georgia Rules for Hazardous Site Response, notice is hereby made of a 30-day public comment period (beginning on the date of this published notice) on the compliance status report for the Hunter Army Airfield Former Fire Training Area Site.

Written or oral comments can be made to:

Xiaobing Chen
Georgia Environmental Protection Division
Department of Natural Resources
205 Butler Street, S.E., Suite 1462
Atlanta, GA 30334
(404) 657-8600

The compliance status report for the Hunter Army Airfield Former Fire Training Area Site may be viewed and copied at HQS 3D Infantry Division (Mechanized) and Fort Stewart, Directorate of Public Works Bldg 1137, 1550 Cochran Drive, Fort Stewart, Georgia 31314-4927. The designated contact person for the Hunter Army Airfield is:

Mr. Thomas C. Fry
Directorate of Public Works Bldg 1137
HQS 3D Infantry Division (Mechanized) and Fort Stewart
1550 Cochran Drive
Fort Stewart, Georgia 31314-4927

PUBLIC NOTICE

On March 24, 2000 a major spill occurred at 2640 Laurens Circle in Southwest Atlanta. An eighteen-inch sewer line became partially blocked with roots and sewage spilled at a rate of approximately 60 gallons per minute. The total estimated spill to South Utoy Creek was 76,000 gallons.

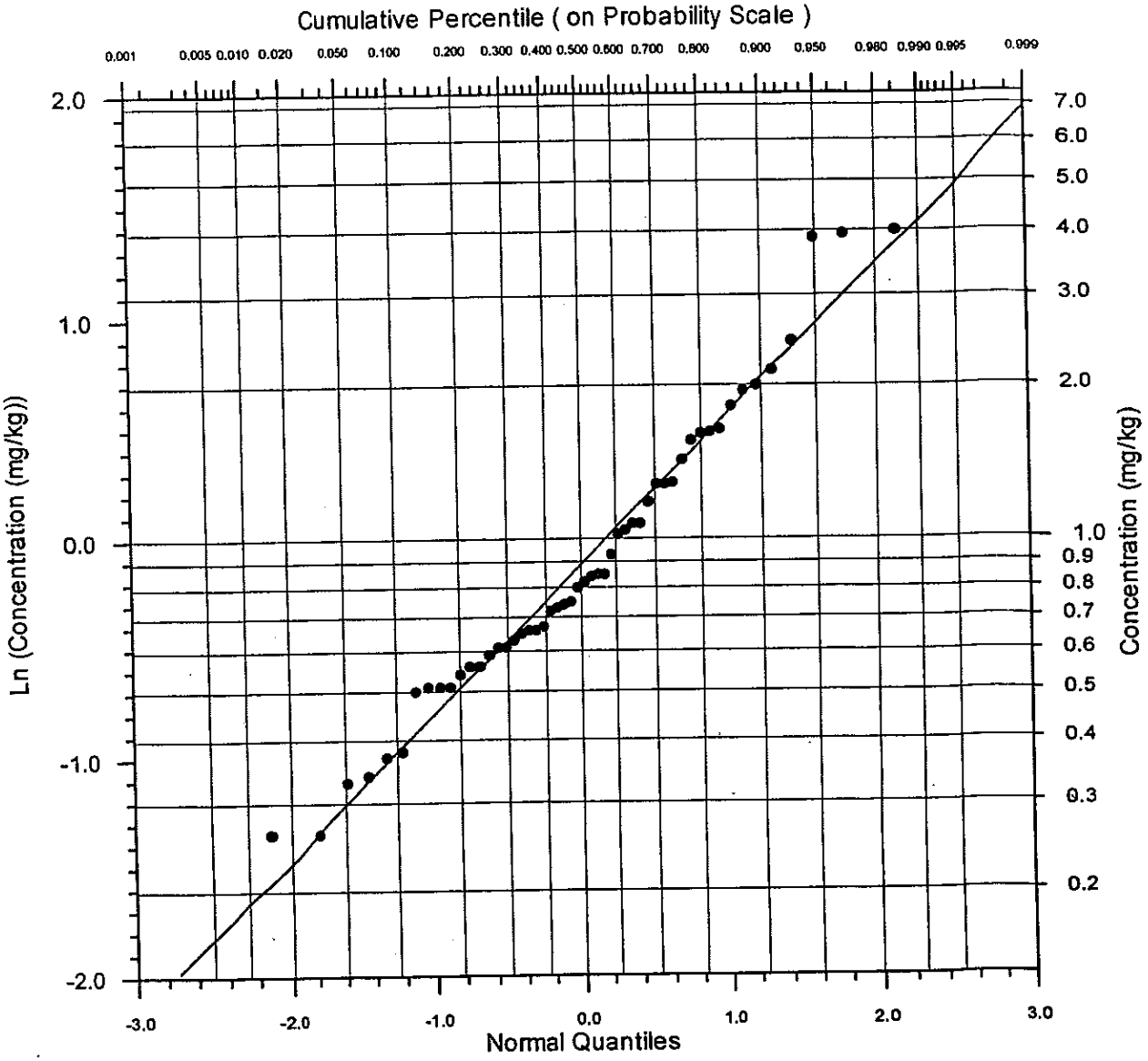
A temporary bypass pump was used to stop the overflow while a mechanical rodder was used to remove the root mass along with stones and other debris.

As defined in the National Pollutant Discharge Elimination System (NPDES) permit, the discharge of pollutions by a facility that exceeds 10,000 gallons is considered a major spill.

The blockage was removed eliminating the overflow. An internal inspection of the sewer line will be performed and the line will be cleaned to reduce the potential of a reoccurrence.

The Environmental Protection Division (EPD) was notified of the incident. Per EPD's guidelines, Atlanta Public Works has already started sampling in the affected creek, upstream and downstream of the spill, that will last for the next 12 months.

STATISTICAL DATA AND STATISTICAL PLOTS



LEGEND:

- Arsenic (mg/kg)

LN(Data) Passed the Shapiro-Francia Normality Test indicating the Data are Lognormal.
Probability Plot is Detects-Only. 7.9% ND. NDs/2 were included in UBC calculation.

Upper Background Concentration: **2.6 mg/kg**
Based on LN(Data) mean + 1.645 Standard Deviations
LN (Data) Mean: -0.2018 SD: 0.7012

Total 63 samples, of which 57 data points were used for UBC and 52 for Probability Plot.
Two data points, BH-11(13.90) and BH-13(11.98), are statistical outliers
By ASTM Designation E178-75, 1975.
5% significance level.
Four data points, BH-10 (5.99), BH-13 (7.75), FTASB-11 (0.86),and HMW-13 (0.6),
are rejected due to being outliers in other metals data sets.

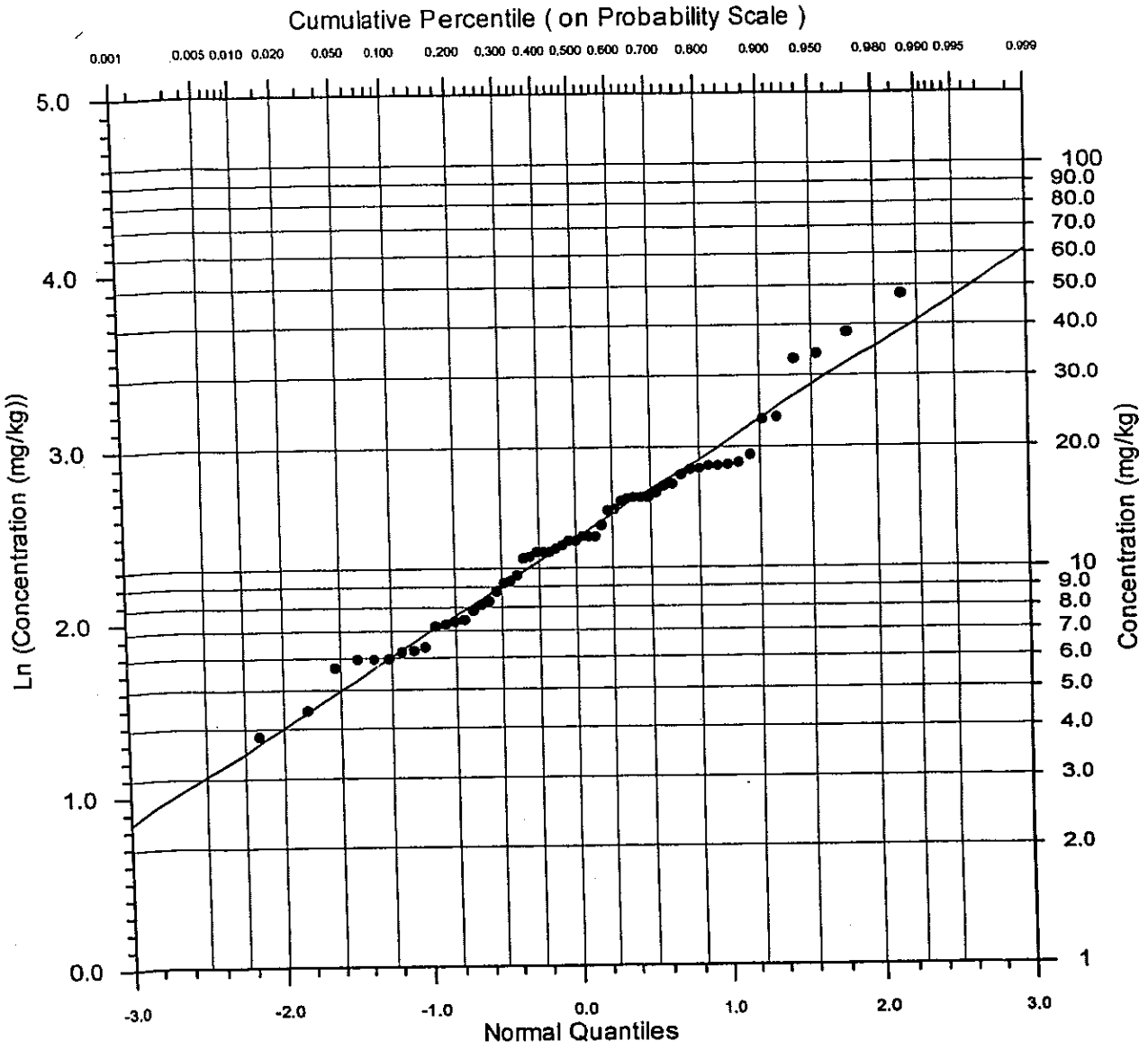
Distribution of Background Arsenic
in Soils at Hunter Army Airfield

ARSENIC

Sample ID	Sample Depth (feet)		Concentration (mg/kg)	Outlier Test Statistic				Data (-Outliers +ND/2)	LN (Data)			LN data	Test Statistic for LN data		Txx for outlier
BH-10	0 - 1		5.88	1.773	Rejected	*All Data W/DLs*		2.000	0.693147	*LN Data*		1.790091			2.08367308
BH-10	7.5-8.5		2.00	0.148				3.880	1.355835			0.693147			0.8039484
BH-11	0 - 1		13.90	4.996	Outlier	Mean	1.636984	4.000	1.386294	Mean	-0.20181	2.631889			3.06573663
BH-11	7.5-8.5		3.88	0.914		Std. Error	0.309251	0.980	-0.0202	Std. Error	0.092878	1.355835	*Column1*		1.57705804
BH-12	0 - 1		4.00	0.963		Median	0.82	3.940	1.371181	Median	-0.28768	1.386294			1.61259257
BH-12	6.5-7.5	<	1.96	0.132		Mode	0.51	0.240	-1.42712	Mode	-1.34707	0.672944	Mean	0.004025	0.78037938
BH-13			11.98	4.214	Outlier	Std. Dev.	2.4546	0.260	-1.34707	Std. Dev.	0.701217	2.483239	Standard E	0.107994	2.89231725
BH-13	0 - 1		7.75	2.490	Rejected	Variance	6.025063	0.270	-1.30933	Variance	0.491705	2.047693	Median	-0.19845	2.38419785
BH-13	6.0-7.5		3.94	0.938		Kurtosis	14.44536	0.650	-0.43078	Kurtosis	-0.20525	1.371181	Mode	-0.67334	1.59496059
HSB-1	8 - 10	<	0.48	0.471		Skewness	3.664717	0.850	-0.16252	Skewness	0.292822	-0.73397	Standard D	0.857172	0.86096397
HSB-2	3 - 5	<	0.52	0.455		Range	13.64	0.275	-1.29098	Range	2.813411	-0.65393	Sample Va	0.734744	0.76758399
HSB-3	6 - 8	<	0.54	0.447		Minimum	0.26	1.020	0.019803	Minimum	-1.42712	-0.61619	Kurtosis	1.438998	0.72355511
HSB-4	2 - 4		0.65	0.402		Maximum	13.9	0.630	-0.46204	Maximum	1.386294	-0.43078	Skewness	1.174989	0.50725871
HSB-5	5 - 8		0.85	0.321		Sum	103.13	1.280	0.24686	Sum	-11.5034	-0.16252	Range	3.978962	0.19429472
HSB-6	8-10	<	0.55	0.443		Count	63	2.440	0.891998	Count	57	-0.59784	Minimum	-1.34707	0.70214851
HS-1	0 - 1		1.02	0.251		Crit. Val.	3.044	0.510	-0.67334			0.019803	Maximum	2.631889	0.01840652
HS-2	3 - 4		0.63	0.410				0.340	-1.07881			-0.46204	Sum	0.25358	0.54371877
HS-3	0 - 1		1.28	0.145				0.330	-1.10866			0.24686	Count	63	0.28329785
HS-4	3 - 4		2.44	0.327				0.540	-0.61619			0.891998			1.03593317
HS-10	0 - 1		0.51	0.459				0.590	-0.52763			-0.67334			0.79023765
HS-11	3.5 - 4		0.34	0.528				0.610	-0.4943			-1.07881			1.26326416
HS-12	0 - 1		0.33	0.532				0.560	-0.57982			-1.10866			1.29809143
HS-13	3.5 - 4		0.54	0.447				0.500	-0.69315			-0.61619			0.72355511
HS-14	5.5 - 6.5		0.59	0.427				0.930	-0.07257			-0.52763			0.62024633
HS-18	0 - 1		0.61	0.418				0.370	-0.99425			-0.4943			0.58135516
HS-19	3.5 - 4		0.56	0.439				1.610	0.476234			-0.57982			0.68112763
HS-7	0 - 1		0.5	0.463				1.180	0.165514			-0.69315			0.81333993
HS-8	3 - 4		0.93	0.288				0.850	-0.16252			-0.07257			0.08935869
HS-9	7.5 - 8.5		0.37	0.516				0.820	-0.19845			-0.99425			1.16461724
HS-15	0 - 1		1.61	0.011				0.560	-0.57982			0.476234			0.55089185
HS-16	3 - 4		1.18	0.186				0.660	-0.41552			0.165514			0.18839784
HS-17	6 - 7		0.85	0.321				1.820	0.598837			-0.16252			0.19429472
FTASB-04	0.5 - 1.0		0.82	0.333				1.070	0.067659			-0.19845			0.23621397
FTASB-06	0.5 - 1.0		0.56	0.439				1.560	0.444686			-0.57982			0.68112763
FTASB-09	0.5 - 1.0		0.66	0.398				1.280	0.24686			-0.41552			0.48944727
FTASB-10	0.5 - 1.0		1.82	0.075				1.950	0.667829			0.598837			0.69392302
FTASB-11	0.5 - 1.0		0.86	0.317	Rejected			1.430	0.357674			-0.15082			0.18064981
FTASB-12	0.5 - 1.0		1.07	0.231				2.140	0.760806			0.067659			0.07423664
FRASB-13	0.5 - 2.5		1.56	0.031				1.640	0.494696			0.444686			0.51408669
FTASB-14	0.5 - 2.5		1.28	0.145				0.510	-0.67334			0.24686			0.28329785
FTASB-15	0.5 - 2.5		1.95	0.128				0.660	-0.41552			0.667829			0.77441197
FTASB-16	0.5 - 2.5		1.43	0.084				0.740	-0.30111			0.357674			0.41257687
FTASB-17	0.5 - 2.5		2.14	0.205				1.070	0.067659			0.760806			0.8828808
HMW-10	0.0 - 2.0		1.64	0.001				0.670	-0.40048			0.494696			0.57243019

ARSENIC

Sample ID	Sample Depth (feet)	Concentration (mg/kg)		Outlier Test Statistic		Data (-Outliers +ND/2)	LN (Data)	LN data	Test Statistic for LN data	Txx for outlier
HMW-12	1.5 - 3.0	0.51		0.459		0.380	-0.96758	-0.67334		0.79023765
FTASB-04	9.0 - 10.5	0.66	J	0.398		0.800	-0.22314	-0.41552		0.48944727
FTASB-06	8.5 - 10.5	0.74	J	0.365		1.620	0.482426	-0.30111		0.35597307
FTASB-09	6.0 - 7.0	1.07	J	0.231		0.730	-0.31471	0.067659		0.07423664
FTASB-10	9.1 - 10.4	0.67	J	0.394		0.610	-0.4943	-0.40048		0.47190368
FTASB-11	9.5 - 10.0	0.38	J	0.512		1.290	0.254642	-0.96758		1.13350534
FTASB-12	8.0 - 10.0	0.8	J	0.341		0.260	-1.34707	-0.22314		0.26502104
FTASB-13	2.5 - 4.5	1.62	J	0.007		0.260	-1.34707	0.482426		0.55811557
FTASB-14	4.5 - 6.5	0.73	J	0.370		0.840	-0.17435	-0.31471		0.37184579
FTASB-15	4.5 - 6.5	0.61	JQ	0.418		0.750	-0.28768	-0.4943		0.58135516
FTASB-16	6.5 - 8.1	1.29	JQ	0.141		0.510	-0.67334	0.254642		0.29237671
FTASB-17	4.5 - 6.5	0.26	JQ	0.561		1.040	0.039221	-1.34707		1.57622815
HMW-10	2.0 - 4.0	0.26	JQ	0.561		0.720	-0.3285	-1.34707		1.57622815
HMW-11	2.0 - 4.0	0.84	JQ	0.325				-0.17435		0.20810112
HMW-11	6.0 - 8.0	0.75	JQ	0.361				-0.28768		0.34031342
HMW-12	1.5 - 3.0	0.51	JQ	0.459				-0.67334		0.79023765
HMW-12	4.5 - 6.0	1.04	JQ	0.243				0.039221		0.04106018
HMW-13	2.0 - 4.0	0.72	JQ	0.374				-0.3285		0.38793745
HMW-13	8.0 - 10.0	0.6	JQ	0.422	Rejected			-0.51083		0.60063869



LEGEND:

- Barium (mg/kg)

LN(Data) Passed Shapiro-Francia Test of Normality Indicating the Data are Lognormal.
Probability Plot is Detects-Only. 0% ND.

Upper Background Concentration: **28.3 mg/kg**
Based on Ln (Data) mean + 1.645 Standard Deviations.
LN (Data) Mean: 2.4788 SD: 0.5257

Total 63 samples, of which 57 data points were used for UBC and Probability Plot.
Two data points, BH-10(64.4) and FTASB-11(69), are statistical outliers
By ASTM Designation E178-75, 1975.
5% significance level.
Four data points, BH-11 (33.50), BH-13 (27.10), BH-13 (19.80), and HMW-13 (27), are rejected due to being outliers in other metals data sets.

Distribution of Background Barium
in Soils at Hunter Army Airfield

BARIUM

Sample ID	Sample Depth (feet)	Concentration (mg/kg)	Outlier Test Statistic		Data (-Outliers +ND/2)	LN (Data)	LN data	Txx for outlier
BH-10	0 - 1	64.4	3.807	Outlier	9.19	2.218116	4.165114	2.575636
BH-10	7.5-8.5	9.19	0.560		18.1	2.895912	2.218116	0.595731
BH-11	0 - 1	33.50	1.363	Rejected	7.19	1.972691	3.511545	1.511071
BH-11	7.5-8.5	18.10	0.145		8.12	2.09433	2.895912	0.508296
BH-12	0 - 1	7.19	0.718		8.28	2.113843	1.972691	0.995492
BH-12	6.5-7.5	8.12	0.645		3.83	1.342865	2.09433	0.79736
BH-13		27.10	0.857	Rejected	5.97	1.786747	3.299534	1.165736
BH-13	0 - 1	19.80	0.279	Rejected	6.21	1.826161	2.985682	0.654518
BH-13	6.0-7.5	8.28	0.632		4.44	1.490654	2.113843	0.765576
HSB-1	8 - 10	3.83	0.984		15.4	2.734368	1.342865	2.021384
HSB-2	3 - 5	5.97	0.815		11.2	2.415914	1.786747	1.298367
HSB-3	6 - 8	6.21	0.796		11.4	2.433613	1.826161	1.234167
HSB-4	2 - 4	4.44	0.936		12.8	2.549445	1.490654	1.780657
HSB-5	5 - 8	15.40	0.069		14.9	2.701361	2.734368	0.245165
HSB-6	8-10	11.20	0.401		23.4	3.152736	2.415914	0.273548
HS-1	0 - 1	11.40	0.385		18.3	2.906901	2.433613	0.244719
HS-2	3 - 4	12.80	0.275		13.9	2.631889	2.549445	0.056046
HS-3	0 - 1	14.90	0.108		9.6	2.261763	2.701361	0.191403
HS-4	3 - 4	23.40	0.564		14.7	2.687847	3.152736	0.926624
HS-10	0 - 1	18.30	0.161		17.7	2.873565	2.906901	0.526196
HS-11	3.5 - 4	13.90	0.188		16.2	2.785011	2.631889	0.078242
HS-12	0 - 1	9.60	0.528		19.1	2.949688	2.261763	0.524637
HS-13	3.5 - 4	14.70	0.124		23.7	3.165475	2.687847	0.169391
HS-14	5.5 - 6.5	17.70	0.113		15	2.70805	2.873565	0.471896
HS-18	0 - 1	16.20	0.006		17.1	2.839078	2.785011	0.327656
HS-19	3.5 - 4	19.10	0.224		47.6	3.862833	2.949688	0.59589
HS-7	0 - 1	23.70	0.588		38.4	3.648057	3.165475	0.947374
HS-8	3 - 5	15.00	0.101		17.6	2.867899	2.70805	0.202298
HS-9	7.5 - 8.5	17.10	0.066		11	2.397895	2.839078	0.415723
HS-15	0 - 1	47.60	2.476		7.45	2.008214	3.862833	2.083265
HS-16	3 - 4	38.40	1.751		11	2.397895	3.648057	1.733429

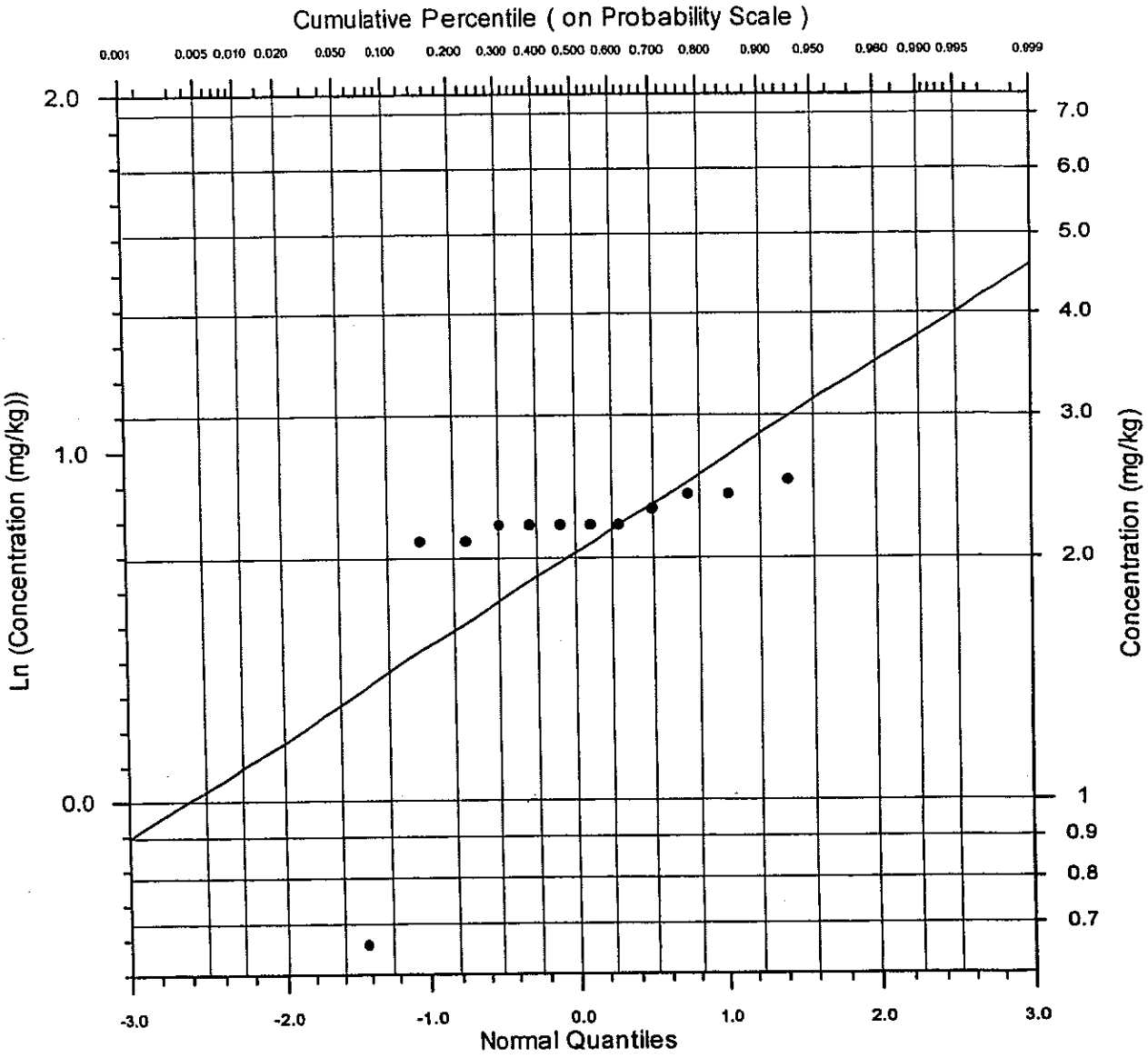
All Data w /DLs	
Mean	16.27095
Std. Error	1.592632
Median	12
Mode	15
Std. Dev.	12.64112
Variance	159.798
Kurtosis	7.129523
Skewness	2.473057
Range	65.17
Minimum	3.83
Maximum	69
Sum	1025.07
Count	63
Crit. Val.	3.044

LN Data	
Mean	2.478789
Std. Error	0.069626
Median	2.459589
Mode	2.70805
Std. Dev.	0.525668
Variance	0.276327
Kurtosis	0.204707
Skewness	0.30929
Range	2.519968
Minimum	1.342865
Maximum	3.862833
Sum	141.2909
Count	57

Column1	
Mean	2.583853
Standard E	0.077348
Median	2.484907
Mode	2.70805
Standard D	0.61393
Sample Va	0.37691
Kurtosis	0.341383
Skewness	0.541552
Range	2.891242
Minimum	1.342865
Maximum	4.234107
Sum	162.7828
Count	63

BARIUM

Sample ID	Sample Depth (feet)	Concentration (mg/kg)	Outlier Test Statistic		Data (-Outliers +ND/2)	LN (Data)	LN data	Txx for outlier
HS-17	6 - 7	17.60	0.105		34	3.526361	2.867899	0.462667
FTASB-04	0.5 - 1.0	11	0.417		9.3	2.230014	2.397895	0.302898
FTASB-06	0.5 - 1.0	7.45	0.698		12	2.484907	2.008214	0.93763
FTASB-09	0.5 - 1.0	11	0.417		12	2.484907	2.397895	0.302898
FTASB-10	0.5 - 1.0	34	1.402		18	2.890372	3.526361	1.535203
FTASB-11	0.5 - 1.0	69	4.171	Outlier	11	2.397895	4.234107	2.688015
FTASB-12	0.5 - 1.0	9.3	0.551		18	2.890372	2.230014	0.576351
FRASB-13	0.5 - 2.5	12	0.338		16	2.772589	2.484907	0.161169
FTASB-14	0.5 - 2.5	12	0.338		5.96	1.78507	2.484907	0.161169
FTASB-15	0.5 - 2.5	18	0.137		12	2.484907	2.890372	0.499272
FTASB-16	0.5 - 2.5	11	0.417		11.7	2.459589	2.397895	0.302898
FTASB-17	0.5 - 2.5	18	0.137		15	2.70805	2.890372	0.499272
HMW-10	0.0 - 2.0	16	0.021		14	2.639057	2.772589	0.307421
HMW-12	1.5 - 3.0	5.96	0.816		10.6	2.360854	1.78507	1.301098
FTASB-04	9.0 - 10.5	12	0.338		15	2.70805	2.484907	0.161169
FTASB-06	8.5 - 10.5	11.7 J	0.362		33	3.496508	2.459589	0.202408
FTASB-09	6.0 - 7.0	15	0.101		8.77	2.171337	2.70805	0.202298
FTASB-10	9.1 - 10.4	14	0.180		7.27	1.983756	2.639057	0.089919
FTASB-11	9.5 - 10.0	10.6 J	0.449		10.7	2.370244	2.360854	0.363233
FTASB-12	8.0 - 10.0	15	0.101		6.38	1.853168	2.70805	0.202298
FTASB-13	2.5 - 4.5	33	1.323		6.25	1.832581	3.496508	1.486577
FTASB-14	4.5 - 6.5	8.77 J	0.593		11.7	2.459589	2.171337	0.671928
FTASB-15	4.5 - 6.5	7.27 JQ	0.712		7.37	1.997418	1.983756	0.977468
FTASB-16	6.5 - 8.1	10.7 J	0.441		5.96	1.78507	2.370244	0.347938
FTASB-17	4.5 - 6.5	6.38 JQ	0.782		5.68	1.736951	1.853168	1.190177
HMW-10	2.0 - 4.0	6.25 JQ	0.793		7.85	2.060514	1.832581	1.223709
HMW-11	2.0 - 4.0	11.7 J	0.362				2.459589	0.202408
HMW-11	6.0 - 8.0	7.37 JQ	0.704				1.997418	0.955216
HMW-12	1.5 - 3.0	5.96 JQ	0.816				1.78507	1.301098
HMW-12	4.5 - 6.0	5.68 JQ	0.838				1.736951	1.379477
HMW-13	2.0 - 4.0	7.85 JQ	0.666				2.060514	0.852442
HMW-13	8.0 - 10.0	27	0.849	Rejected			3.295837	1.159714



LEGEND:

- Cadmium (mg/kg)

Due to high percentage of non-detects the data can not be validly normalized.
Probability Plot is Detects-Only. 79% NDs.

Upper Background Concentration: **2.6 mg/kg**
Based on non-parametric analysis, UBC is set equal to the maximum observed value.
5% Significance Level and 98% expected coverage.

Total of 63 samples, of which 57 data points were used for UBC and 12 for Probability Plot.
No Data Points are determined to be statistical outliers.
By ASTM Designation E178-75, 1975.
5% significance level.
Six data points, BH-10 (<1.98), BH-11 (1.99), BH-13 (0.02), BH-13 (3.87), FTASB-11 (2.2), and HMW-13 (<2.3), are rejected due to being outliers in other metals data sets.

Distribution of Background Cadmium
in Soils at Hunter Army Airfield

CADMIUM

Sample ID	Sample Depth (feet)	Concentration (mg/kg)	Outlier Test Statistic
BH-10	0 - 1	< 1.98	0.415
BH-10	7.5-8.5	< 1.98	0.415
BH-11	0 - 1	1.99	0.425
BH-11	7.5-8.5	< 1.98	0.415
BH-12	0 - 1	< 1.98	0.415
BH-12	6.5-7.5	< 1.98	0.415
BH-13		0.02	1.675
BH-13	0 - 1	3.87	2.430
BH-13	6.0-7.5	< 1.98	0.415
HSB-1	8 - 10	< 0.37	1.302
HSB-2	3 - 5	< 0.40	1.270
HSB-3	6 - 8	< 0.42	1.249
HSB-4	2 - 4	< 0.41	1.259
HSB-5	5 - 8	< 0.45	1.217
HSB-6	8-10	< 0.42	1.249
HS-1	0 - 1	< 0.52	1.142
HS-2	3 - 4	< 0.57	1.089
HS-3	0 - 1	< 0.54	1.121
HS-4	3 - 4	< 0.55	1.110
HS-10	0 - 1	< 0.51	1.153
HS-11	3.5 - 4	< 0.54	1.121
HS-12	0 - 1	< 0.51	1.153
HS-13	3.5 - 4	< 0.54	1.121
HS-14	5.5 - 6.5	< 0.54	1.121
HS-18	0 - 1	< 0.50	1.163
HS-19	3.5 - 4	< 0.55	1.110
HS-7	0 - 1	< 0.54	1.121
HS-8	3 - 5	< 0.54	1.121
HS-9	7.5 - 8.5	< 0.53	1.131
HS-15	0 - 1	< 0.51	1.153
HS-16	3 - 4	< 0.52	1.142

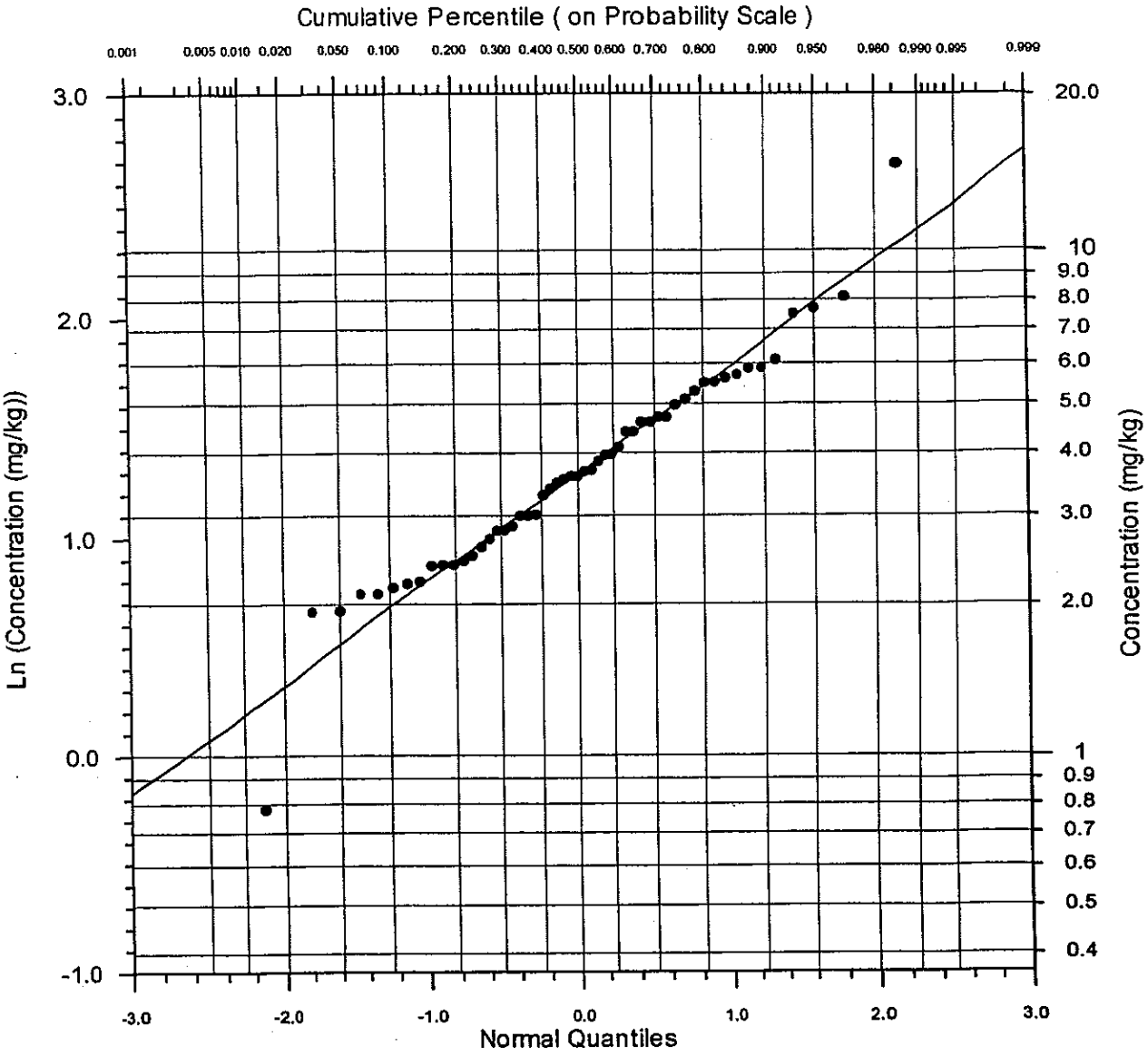
Column1	
Mean	1.591111
Standard E	0.118161
Median	1.99
Mode	2.4
Standard D	0.937875
Sample Va	0.87961
Kurtosis	-1.34677
Skewness	-0.17072
Range	3.85
Minimum	0.02
Maximum	3.87
Sum	100.24
Count	63
Crit. Val.	3.044

H-11

CADMIUM

Sample ID	Sample Depth (feet)	Concentration (mg/kg)	Outlier Test Statistic
HS-17	6 - 7	< 0.54	1.121
FTASB-04	0.5 - 1.0	2.2	0.649
FTASB-06	0.5 - 1.0	2.1	0.543
FTASB-09	0.5 - 1.0	2.5	0.969
FTASB-10	0.5 - 1.0	0.66	0.993
FTASB-11	0.5 - 1.0	2.2	0.649
FTASB-12	0.5 - 1.0	2.4	0.862
FRASB-13	0.5 - 2.5	2.2	0.649
FTASB-14	0.5 - 2.5	2.2	0.649
FTASB-15	0.5 - 2.5	2.2	0.649
FTASB-16	0.5 - 2.5	2.1	0.543
FTASB-17	0.5 - 2.5	2.2	0.649
HMW-10	0.0 - 2.0	2.3	0.756
HMW-12	1.5 - 3.0	2.4	0.862
FTASB-04	9.0 - 10.5	< 2.4	0.862
FTASB-06	8.5 - 10.5	< 2.6	1.076
FTASB-09	6.0 - 7.0	< 2.3	0.756
FTASB-10	9.1 - 10.4	< 2.4	0.862
FTASB-11	9.5 - 10.0	< 2.4	0.862
FTASB-12	8.0 - 10.0	< 2.5	0.969
FTASB-13	2.5 - 4.5	< 2.6	1.076
FTASB-14	4.5 - 6.5	< 2.3	0.756
FTASB-15	4.5 - 6.5	< 2.3	0.756
FTASB-16	6.5 - 8.1	< 2.4	0.862
FTASB-17	4.5 - 6.5	< 2.2	0.649
HMW-10	2.0 - 4.0	< 2.4	0.862
HMW-11	2.0 - 4.0	< 2.4	0.862
HMW-11	6.0 - 8.0	< 2.6	1.076
HMW-12	1.5 - 3.0	< 2.4	0.862
HMW-12	4.5 - 6.0	< 2.4	0.862
HMW-13	2.0 - 4.0	< 2.4	0.862
HMW-13	8.0 - 10.0	< 2.3	0.756

H-12



LEGEND:

- Chromium (mg/kg)

LN(Data) Passed the Coefficient of Skewness Test of Normality Indicating the Data are Lognormal. Probability Plot is Detects-Only. 7.0% ND. NDs/2 were included in UBC calculation.

Upper Background Concentration: **7.7 mg/kg**
Based on LN(Data) mean + 1.645 Standard Deviations
LN (Data) Mean: 1.2527 SD: 0.4792

Total 63 samples, of which 57 data points were used for UBC and 53 for Probality Plot.
One data point, HMW-13 (31.7),is a statistical outlier.
By ASTM Designation E178-75, 1975.
5% significance level.
Five data points, BH-10 (12.80), BH-11 (4.16), BH-13 (2.84), BH-13 (9.10) and FTASB-11 (4.8), are rejected due to being outliers in other metals data sets.

Distribution of Background Chromium
in Soils at Hunter Army Airfield

CHROMIUM

Sample ID	Sample Depth (feet)	Concentration (mg/kg)	Outlier Test Statistic	
BH-10	0 - 1	12.50	1.928	Rejected
BH-10	7.5-8.5	< 3.96	0.184	
BH-11	0 - 1	4.16	0.136	Rejected
BH-11	7.5-8.5	3.96	0.184	
BH-12	0 - 1	< 5.19	0.110	
BH-12	6.5-7.5	< 3.96	0.184	
BH-13		2.64	0.451	Rejected
BH-13	0 - 1	9.10	1.044	Rejected
BH-13	6.0-7.5	< 3.96	0.184	
HSB-1	8 - 10	0.78	0.944	
HSB-2	3 - 5	3.49	0.296	
HSB-3	6 - 8	3.85	0.210	
HSB-4	2 - 4	5.87	0.272	
HSB-5	5 - 8	1.93	0.669	
HSB-6	8 - 10	2.39	0.559	
HS-1	0 - 1	5.61	0.210	
HS-2	3 - 4	2.81	0.459	
HS-3	0 - 1	5.88	0.275	
HS-4	3 - 4	5.51	0.186	
HS-10	0 - 1	3.55	0.282	
HS-11	3.5 - 4	2.16	0.614	
HS-12	0 - 1	3.02	0.408	
HS-13	3.5 - 4	2.44	0.547	
HS-14	5.5 - 6.5	2.22	0.600	
HS-18	0 - 1	3.68	0.251	
HS-19	3.5 - 4	3.98	0.179	
HS-7	0 - 1	4.97	0.057	
HS-8	3 - 5	2.80	0.461	
HS-9	7.5 - 8.5	1.94	0.666	
HS-15	0 - 1	5.29	0.134	
HS-16	3 - 4	6.10	0.327	

All Data w / DLs	
Mean	4.729524
Std. Error	0.527314
Median	3.96
Mode	3.96
Std. Dev.	4.185428
Variance	17.5178
Kurtosis	28.39077
Skewness	4.767239
Range	30.92
Minimum	0.78
Maximum	31.7
Sum	297.96
Count	63
Crit. Val.	3.044

Data (-Outliers +ND/2)	LN (Data)
1.98	0.683097
3.96	1.376244
2.595	0.953587
1.98	0.683097
1.98	0.683097
0.78	-0.24846
3.49	1.249902
3.85	1.348073
5.87	1.769855
1.93	0.65752
5.88	1.771557
5.51	1.706565
3.55	1.266948
2.16	0.770108
3.02	1.105257
2.44	0.891998
2.22	0.797507
3.68	1.302913
3.98	1.381282
4.97	1.60342
2.8	1.029619
1.94	0.662688
5.29	1.665818
6.1	1.808289
2.86	1.050822
3	1.098612
5.1	1.629241
2.4	0.875469

LN Data	
Mean	1.252719
Std. Error	0.063466
Median	1.266948
Mode	0.683097
Std. Dev.	0.479155
Variance	0.229589
Kurtosis	1.36858
Skewness	0.057575
Range	2.936309
Minimum	-0.24846
Maximum	2.687847
Sum	71.405
Count	57

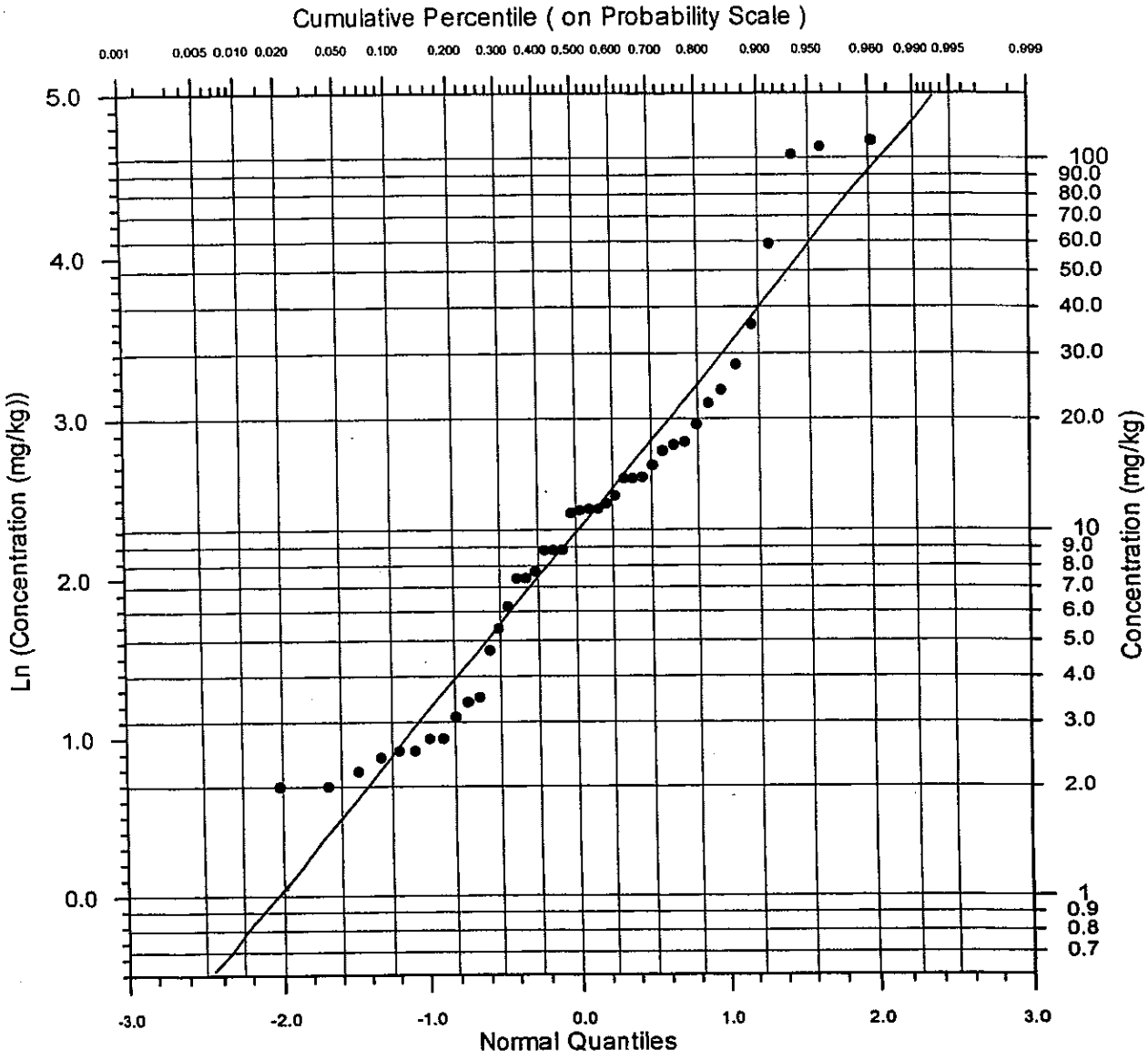
LN data	Txx for outlier
2.549445	2.142766
1.376244	0.007909
1.425515	0.097567
1.376244	0.007909
1.646734	0.500115
1.376244	0.007909
1.043804	0.597027
2.208274	1.521942
1.376244	0.007909
-0.24846	2.948543
1.249902	0.221994
1.348073	0.043353
1.769855	0.724156
0.65752	1.299943
0.871293	0.910942
1.724551	0.641717
1.033184	0.616351
1.771557	0.727254
1.706565	0.608988
1.266948	0.190976
0.770108	1.095067
1.105257	0.485202
0.891998	0.873266
0.797507	1.04521
1.302913	0.125531
1.381282	0.017076
1.60342	0.421297
1.029619	0.622839
0.662688	1.290538
1.665818	0.534843
1.808289	0.794094

Column1		
Mean	1.371898	0.007909
Standard E	0.069236	0.597027
Median	1.376244	1.521942
Mode	1.376244	0.007909
Standard E	0.549546	2.948543
Sample Va	0.302	0.221994
Kurtosis	3.390369	0.043353
Skewness	0.799956	0.724156
Range	3.704778	1.299943
Minimum	-0.24846	0.910942
Maximum	3.456317	0.641717
Sum	86.42956	0.616351
Count	63	0.727254

J - 14

CHROMIUM

Sample ID	Sample Depth (feet)	Concentration (mg/kg)	Outlier Test Statistic		Data (-Outliers +ND/2)	LN (Data)	LN data	Txx for outlier
HS-17	6 - 7	2.86	0.447		14.7	2.687847	1.050822	0.584257
FTASB-04	0.5 - 1.0	3.0	0.413		4.6	1.526056	1.098612	0.497293
FTASB-06	0.5 - 1.0	5.10	0.089		5.7	1.740466	1.629241	0.468283
FTASB-09	0.5 - 1.0	2.4	0.557		4.4	1.481605	0.875469	0.903344
FTASB-10	0.5 - 1.0	14.7	2.382		4.1	1.410987	2.687847	2.394614
FTASB-11	0.5 - 1.0	4.8	0.017	Rejected	3.4	1.223775	1.568616	0.357965
FTASB-12	0.5 - 1.0	4.6	0.031		4.7	1.547563	1.526056	0.28052
FRASB-13	0.5 - 2.5	5.7	0.232		7.7	2.04122	1.740466	0.670679
FTASB-14	0.5 - 2.5	4.4	0.079		3.6	1.280934	1.481605	0.199632
FTASB-15	0.5 - 2.5	4.1	0.150		2.4	0.875469	1.410987	0.07113
FTASB-16	0.5 - 2.5	3.4	0.318		2.2	0.788457	1.223775	0.269536
FTASB-17	0.5 - 2.5	4.7	0.007		5.5	1.704748	1.547563	0.319655
HMW-10	0.0 - 2.0	7.7	0.710		2.1	0.741937	2.04122	1.217956
HMW-12	1.5 - 3.0	3.6	0.270		2.7	0.993252	1.280934	0.165526
FTASB-04	9.0 - 10.5	2.4 J	0.557		2.5	0.916291	0.875469	0.903344
FTASB-06	8.5 - 10.5	2.2 J	0.604		4.4	1.481605	0.788457	1.061678
FTASB-09	6.0 - 7.0	5.5	0.184		4.7	1.547563	1.704748	0.605683
FTASB-10	9.1 - 10.4	2.1 J	0.628		2.6	0.955511	0.741937	1.14633
FTASB-11	9.5 - 10.0	2.7 J	0.485		3.7	1.308333	0.993252	0.689016
FTASB-12	8.0 - 10.0	2.5 J	0.533		2.1	0.741937	0.916291	0.829061
FTASB-13	2.5 - 4.5	4.4 J	0.079		3.3	1.193922	1.481605	0.199632
FTASB-14	4.5 - 6.5	4.7	0.007		8.1	2.091864	1.547563	0.319655
FTASB-15	4.5 - 6.5	2.6 JQ	0.509		7.5	2.014903	0.955511	0.757692
FTASB-16	6.5 - 8.1	3.7 JQ	0.246		3.6	1.280934	1.308333	0.115668
FTASB-17	4.5 - 6.5	2.1 JQ	0.628		4.6	1.526056	0.741937	1.14633
HMW-10	2.0 - 4.0	3.3 JQ	0.342		3	1.098612	1.193922	0.323859
HMW-11	2.0 - 4.0	8.1	0.805				2.091864	1.310112
HMW-11	6.0 - 8.0	7.5	0.662				2.014903	1.170067
HMW-12	1.5 - 3.0	3.6 JQ	0.270				1.280934	0.165526
HMW-12	4.5 - 6.0	4.6 J	0.031				1.526056	0.28052
HMW-13	2.0 - 4.0	3.0 JQ	0.413				1.098612	0.497293
HMW-13	8.0 - 10.0	31.7	6.444	Outlier			3.456317	3.792986



LEGEND:

- Lead (mg/kg)

LN (Data) Passed The Coefficient of Skewness Test of Normality Indicating the data are lognormal. Probability Plot is Detects-Only. 25% ND. Aitchison's Adjustment used for UBC calculation.

Upper Background Concentration: **53 mg/kg**
Based on LN (Data) Adjusted Mean + 1.645 Adjusted Standard Deviations.
LN (Data) Adjusted Mean: 1.7158 SD: 1.3668

Total of 62 samples, of which 56 data points were used for UBC and 42 for Probability Plot.
Three Data Points, BH-11 (1163.00), BH-13 (1179.00) and BH-13 (1185.00), are statistical outliers.
By ASTM Designation E178-75, 1975.
5% significance level.
Three data points, BH-10 (645.00), FTASB-11 (15.0), and HWM-13 (3.2),
are rejected due to being outliers in other metals data sets.

Distribution of Background Lead
in Soils at Hunter Army Airfield

LEAD

Sample ID	Sample Depth (feet)	Concentration (mg/kg)	Outlier Test Statistic	
BH-10	0 - 1	645.00	2.148	Rejected
BH-10	7.5-8.5	35.9	0.174	
BH-11	0 - 1	1163.00	4.124	Outlier
BH-11	7.5-8.5	NRQ		
BH-12	0 - 1	102	0.078	
BH-12	6.5-7.5	19.30	0.238	
BH-13		1179.00	4.185	Outlier
BH-13	0 - 1	1185.00	4.208	Outlier
BH-13	6.0-7.5	13.80	0.259	
HSB-1	8 - 10	< 5.26	0.291	
HSB-2	3 - 5	< 5.71	0.290	
HSB-3	6 - 8	< 5.97	0.289	
HSB-4	2 - 4	< 5.81	0.289	
HSB-5	5 - 8	7.40	0.283	
HSB-6	8 - 10	< 5.97	0.289	
HS-1	0 - 1	28.00	0.205	
HS-2	3 - 4	< 7.62	0.282	
HS-3	0 - 1	17.30	0.245	
HS-4	3 - 4	8.82	0.278	
HS-10	0 - 1	7.39	0.283	
HS-11	3.5 - 4	< 7.28	0.284	
HS-12	0 - 1	< 6.90	0.285	
HS-13	3.5 - 4	< 7.29	0.284	
HS-14	5.5 - 6.5	< 7.27	0.284	
HS-18	0 - 1	< 6.70	0.286	
HS-19	3.5 - 4	< 7.31	0.284	
HS-7	0 - 1	23.90	0.220	
HS-8	3 - 5	8.83	0.278	
HS-9	7.5 - 8.5	< 7.16	0.284	
HS-15	0 - 1	13.80	0.259	
HS-16	3 - 4	107.00	0.097	

All Data W /DLs		Detects-only Data	LN (Detects-only data)	*LN Detects-only Data*	
		35.9	3.580737		
		102	4.624973		
Mean	81.65452	19.3	2.960105	Mean	2.287776
Std. Error	33.30281	13.8	2.624669	Std. Error	0.166591
Median	7.66	7.4	2.00148	Median	2.415874
Mode	13.8	28	3.332205	Mode	2.624669
Std. Dev.	262.2266	17.3	2.850707	Std. Dev.	1.079635
Variance	68762.79	8.82	2.177022	Variance	1.165612
Kurtosis	13.68489	7.39	2.000128	Kurtosis	-0.078331
Skewness	3.839575	23.9	3.173878	Skewness	0.474948
Range	1183	8.83	2.178155	Range	4.016383
Minimum	2	13.8	2.624669	Minimum	0.693147
Maximum	1185	107	4.672829	Maximum	4.70953
Sum	5062.58	2.7	0.993252	Sum	96.0866
Count	62	15	2.70805	Count	42
Crit. Val.	3.037	4.7	1.547563		
		111	4.70953		
		11.4	2.433613		
		7.7	2.04122		
		11.4	2.433613		
		13.9	2.631889		
		3.4	1.223775		
		12.4	2.517696		
		17	2.833213		
		2.5	0.916291		
		3.5	1.252763		
		2.4	0.875469		
		59	4.077537		
		11.1	2.406945		
		6.2	1.824549		
		11.3	2.424803		

Test Statistic for LN data

LN data			Txx for outlier
6.46925			2.675076
3.580737			0.735288
7.058758			3.070961
	Column1		1.669364
4.624973			1.436547
2.960105	Mean	2.485829	0.318501
7.072422	Standard E	0.189114	3.080137
7.077498	Median	2.035998	3.083546
2.624669	Mode	2.624669	0.093238
1.660131	Standard D	1.489087	0.554499
1.742219	Sample Va	2.217381	0.499373
1.786747	Kurtosis	3.196304	0.46947
1.759581	Skewness	1.750325	0.487714
2.00148	Range	6.384351	0.325266
1.786747	Minimum	0.693147	0.46947
3.332205	Maximum	7.077498	0.568385
2.030776	Sum	154.1214	0.305592
2.850707	Count	62	0.245034
2.177022			0.20738
2.000128			0.326174
1.985131			0.336245
1.931521			0.372246
1.986504			0.335323
1.983756			0.337168
1.902108			0.391999
1.989243			0.333483
3.173878			0.462061
2.178155			0.206619
1.96851			0.347407
2.624669			0.093238
4.672829			1.468685

LEAD

Sample ID	Sample Depth (feet)	Concentration (mg/kg)	Outlier Test Statistic	
HS-17	6 - 7	< 7.19	0.284	
FTASB-04	0.5 - 1.0	2.7	0.301	
FTASB-06	0.5 - 1.0	15	0.254	
FTASB-09	0.5 - 1.0	4.7	0.293	
FTASB-10	0.5 - 1.0	111	0.112	
FTASB-11	0.5 - 1.0	18	0.254	Rejected
FTASB-12	0.5 - 1.0	11.4	0.268	
FRASB-13	0.5 - 2.5	7.7	0.282	
FTASB-14	0.5 - 2.5	11.4	0.268	
FTASB-15	0.5 - 2.5	13.9	0.258	
FTASB-16	0.5 - 2.5	3.4	0.298	
FTASB-17	0.5 - 2.5	12.4	0.264	
HMW-10	0.0 - 2.0	17	0.247	
HMW-12	1.5 - 3.0	2.5	0.302	
FTASB-04	9.0 - 10.5	3.5	0.298	
FTASB-06	8.5 - 10.5	2.4	0.302	
FTASB-09	6.0 - 7.0	59	0.086	
FTASB-10	9.1 - 10.4	11.1	0.269	
FTASB-11	9.5 - 10.0	6.2	0.288	
FTASB-12	8.0 - 10.0	11.3	0.268	
FTASB-13	2.5 - 4.5	22	0.227	
FTASB-14	4.5 - 6.5	8.8	0.278	
FTASB-15	4.5 - 6.5	5.4	0.291	
FTASB-16	6.5 - 8.1	3.1	0.300	
FTASB-17	4.5 - 6.5	2	0.304	
HMW-10	2.0 - 4.0	11.8	0.266	
HMW-11	2.0 - 4.0	2.7	0.301	
HMW-11	6.0 - 8.0	2.2	0.303	
HMW-12	1.5 - 3.0	2.5	0.302	
HMW-12	4.5 - 6.0	2	0.304	
HMW-13	2.0 - 4.0	16.4	0.249	
HMW-13	8.0 - 10.0	3.2	0.299	Rejected

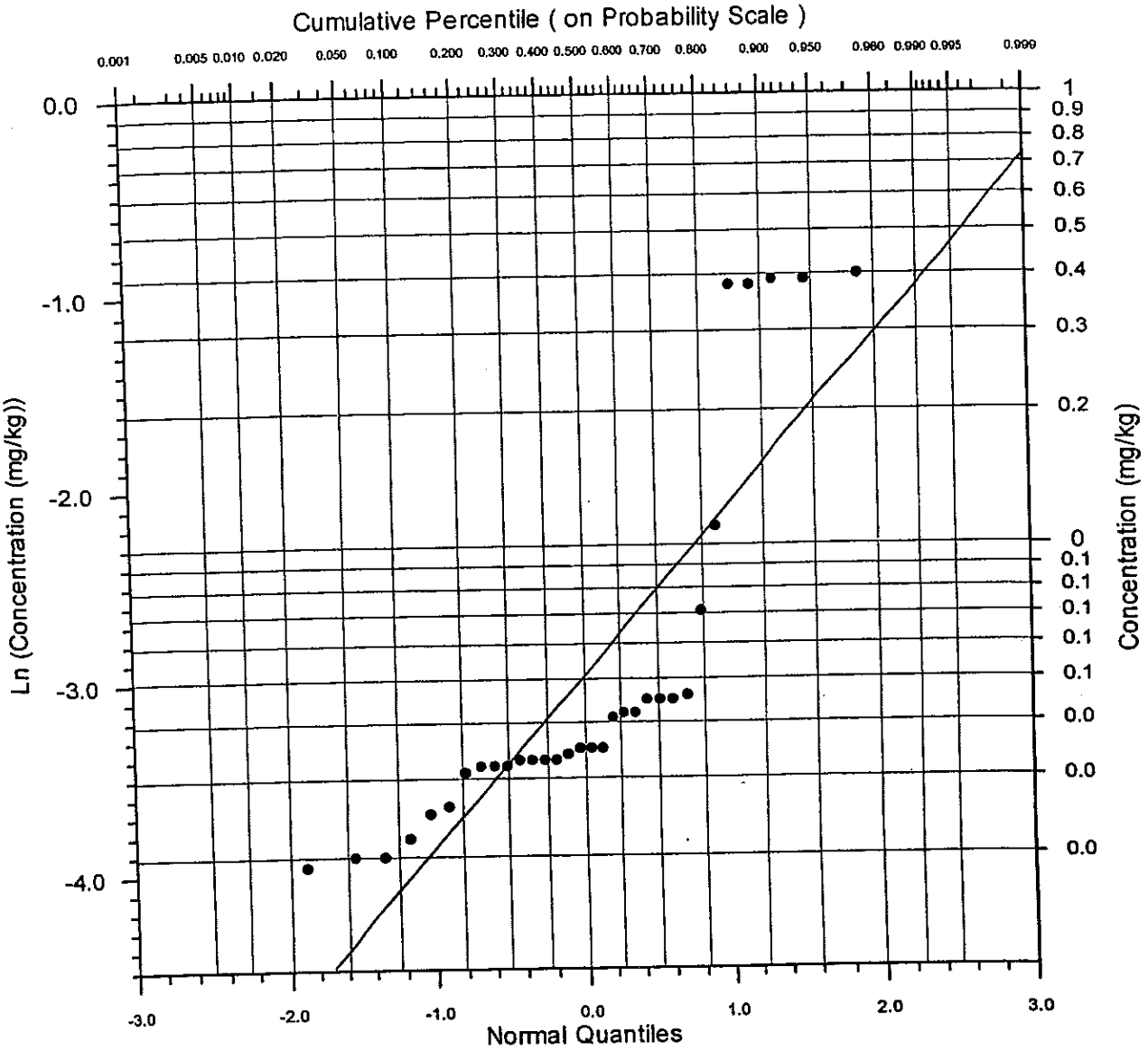
Detects-only Data	LN (Detects-only data)
22	3.091042
8.8	2.174752
5.4	1.686399
3.1	1.131402
2	0.693147
11.8	2.4681
2.7	0.993252
2.2	0.788457
2.5	0.916291
2	0.693147
16.4	2.797281

AITCHISON'S ADJUSTMENT FOR NONDETECTS

Mean (Detect-Only)	2.288		
Std. Dev. (Detect-Only)	1.080		
Total no. of samples	56		
Number of NDs	14		
Adjusted Mean	**1.716**	mg/kg	log-transformed
Adjusted Std. Dev.	**1.367**	mg/kg	log-transformed

ubc	3.964201
exp ubc	52.67815

LN data	Test Statistic for LN data Txx for outlier
1.972691	0.344599
0.993252	1.002344
2.70805	0.149233
1.547563	0.630095
4.70953	1.493332
2.70805	0.149233
2.433613	0.035065
2.04122	0.298578
2.433613	0.035065
2.631889	0.098087
1.223775	0.847535
2.517696	0.021401
2.833213	0.233287
0.916291	1.054027
1.252763	0.828068
0.875469	1.081441
4.077537	1.068915
2.406945	0.052975
1.824549	0.444084
2.424803	0.040982
3.091042	0.406433
2.174752	0.208905
1.686399	0.536859
1.131402	0.909568
0.693147	1.203879
2.4681	0.011906
0.993252	1.002344
0.788457	1.139874
0.916291	1.054027
0.693147	1.203879
2.797281	0.209157
1.163151	0.888247



LEGEND:

- Mercury (mg/kg)

The Data Failed all Tests of Normality.
Probability Plot is Detects-Only. 44% NDs.

Upper Background Concentration: **0.39 mg/kg**
The maximum observed value, 0.40mg/kg, was not used for the UBC,as it was from a sample location that exceeded the UBC for another parameter. Based on non-parametric analysis, the UBC was set equal to the next highest value detected.
5% Significance Level and 98% Expected Coverage.

Total of 63 samples, of which 57 data points were used for UBC and 32 for Probability Plot.
One Data Point, BH-13 (0.79), is a statistical outlier.
By ASTM Designation E178-75, 1975.
5% Significance Level.
Five data points, BH-10 (0.40), BH-11 (0.38), BH-13 (0.38), FTASB-11 (0.034), and HWM-13 (0.03), are rejected due to being outliers in other metals data sets.

Distribution of Background Mercury
in Soils at Hunter Army Airfield

MERCURY

Sample ID	Sample Depth (feet)	Concentration (mg/kg)	Outlier Test Statistic	
BH-10	0 - 1	0.40	1.986	Rejected
BH-10	7.5-8.5	0.39	1.915	
BH-11	0 - 1	0.38	1.844	Rejected
BH-11	7.5-8.5	0.38	1.844	
BH-12	0 - 1	0.40	1.986	
BH-12	6.5-7.5	0.38	1.844	
BH-13		0.79	4.743	Outlier
BH-13	0 - 1	0.38	1.844	Rejected
BH-13	6.0-7.5	0.39	1.915	
HSB-1	8 - 10	< 0.10	0.135	
HSB-2	3 - 5	< 0.11	0.064	
HSB-3	6 - 8	< 0.11	0.064	
HSB-4	2 - 4	< 0.11	0.064	
HSB-5	5 - 8	< 0.12	0.007	
HSB-6	8 - 10	< 0.12	0.007	
HS-1	0 - 1	< 0.09	0.205	
HS-2	3 - 4	< 0.10	0.135	
HS-3	0 - 1	< 0.10	0.135	
HS-4	3 - 4	< 0.10	0.135	
HS-10	0 - 1	< 0.09	0.205	
HS-11	3.5 - 4	< 0.10	0.135	
HS-12	0 - 1	< 0.09	0.205	
HS-13	3.5 - 4	< 0.09	0.205	
HS-14	5.5 - 6.5	< 0.10	0.135	
HS-18	0 - 1	< 0.09	0.205	
HS-19	3.5 - 4	< 0.10	0.135	
HS-7	0 - 1	< 0.10	0.135	
HS-8	3 - 5	< 0.10	0.135	
HS-9	7.5 - 8.5	< 0.09	0.205	
HS-15	0 - 1	< 0.09	0.205	
HS-16	3 - 4	< 0.09	0.205	
HS-17	6 - 7	< 0.09	0.205	
FTASB-04	0.5 - 1.0	0.02	0.700	
FTASB-06	0.5 - 1.0	0.035	0.594	
FTASB-09	0.5 - 1.0	0.025	0.665	
FTASB-10	0.5 - 1.0	0.042	0.545	
FTASB-11	0.5 - 1.0	0.034	0.601	Rejected
FTASB-12	0.5 - 1.0	0.042	0.545	
FRASB-13	0.5 - 2.5	0.045	0.524	
FTASB-14	0.5 - 2.5	0.032	0.615	
FTASB-15	0.5 - 2.5	0.026	0.658	
FTASB-16	0.5 - 2.5	0.019	0.707	
FTASB-17	0.5 - 2.5	0.045	0.524	
HMW-10	0.0 - 2.0	0.046	0.516	

All Data w /DLs

Mean	0.119063
Std. Error	0.017824
Median	0.09
Mode	0.1
Std. Dev.	0.141471
Variance	0.020014
Kurtosis	7.759826
Skewness	2.585037
Range	0.771
Minimum	0.019
Maximum	0.79
Sum	7.501
Count	63
Crit. Val.	3.044

Test Statistic for LN data

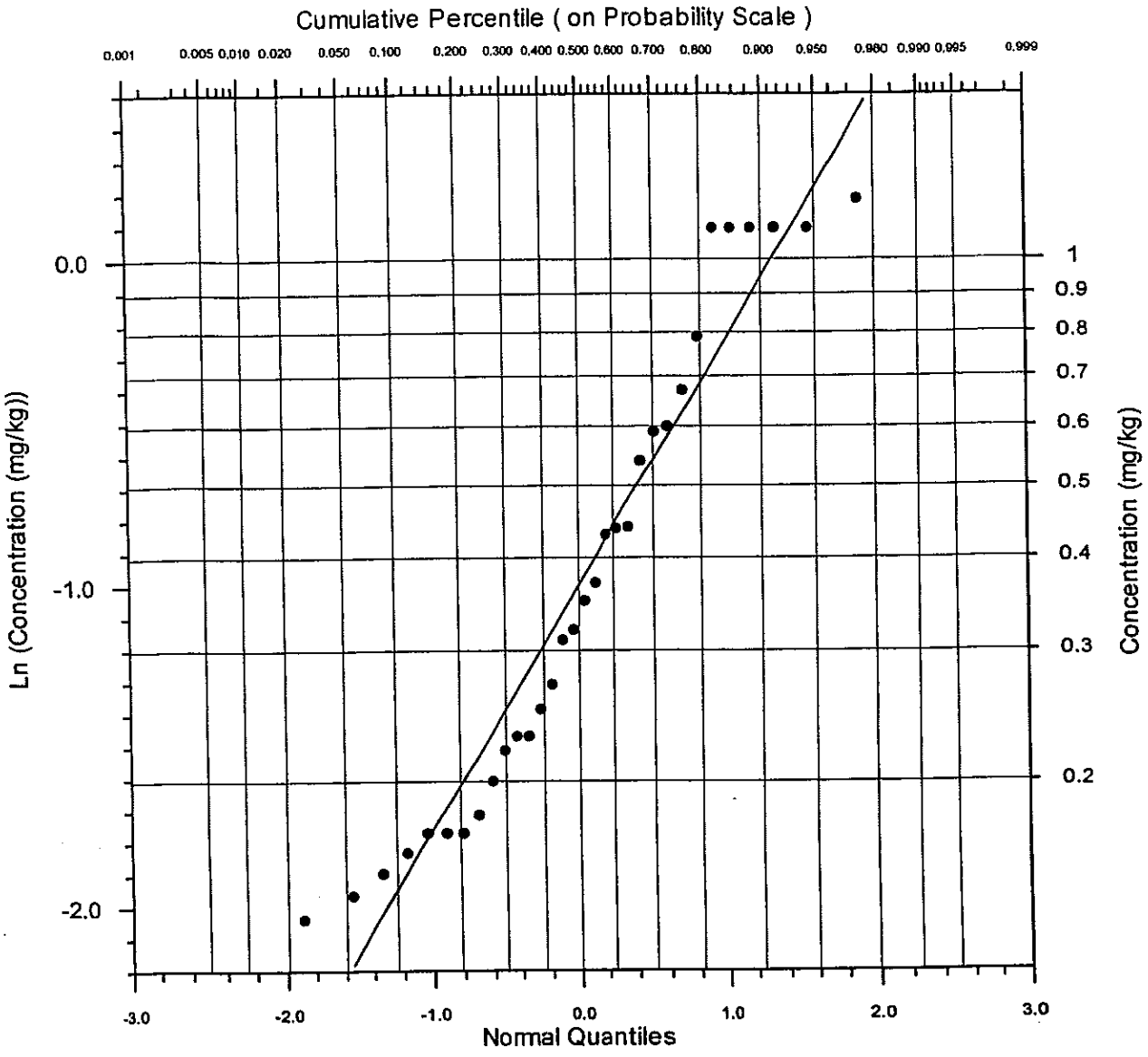
LN data			Txx for outlier
-0.916291			1.847174
-0.941609			1.819113
-0.967584			1.790323
-0.967584	*Column1*		1.790323
-0.916291			1.847174
-0.967584	Mean	-2.582898	1.790323
-0.235722	Standard E	0.113672	2.601478
-0.967584	Median	-2.407946	1.790323
-0.941609	Mode	-2.302585	1.819113
-2.302585	Standard D	0.902247	0.310683
-2.207275	Sample Va	0.814049	0.416319
-2.207275	Kurtosis	-0.194112	0.416319
-2.207275	Skewness	0.630629	0.416319
-2.120264	Range	3.727594	0.512758
-2.120264	Minimum	-3.963316	0.512758
-2.407946	Maximum	-0.235722	0.193907
-2.302585	Sum	-162.7226	0.310683
-2.302585	Count	63	0.310683
-2.302585			0.310683
-2.407946			0.193907
-2.302585			0.310683
-2.407946			0.193907
-2.407946			0.193907
-2.302585			0.310683
-2.407946			0.193907
-2.302585			0.310683
-2.302585			0.310683
-2.302585			0.310683
-2.407946			0.193907
-2.407946			0.193907
-2.407946			0.193907
-2.407946			0.193907
-3.912023			1.473128
-3.352407			0.852881
-3.688879			1.225808
-3.170086			0.650806
-3.381395			0.885009
-3.170086			0.650806
-3.101093			0.574338
-3.442019			0.952202
-3.649659			1.182338
-3.963316			1.529979
-3.101093			0.574338
-3.079114			0.549978

U - 70

MERCURY

Sample ID	Sample Depth (feet)	Concentration (mg/kg)	Outlier Test Statistic		Test Statistic for LN data	
					LN data	Txx for outlier
HMW-12	1.5 - 3.0	0.035	0.594		-3.352407	0.852881
FTASB-04	9.0 - 10.5	0.022 J	0.686		-3.816713	1.367491
FTASB-06	8.5 - 10.5	< 0.13	0.077		-2.040221	0.601473
FTASB-09	6.0 - 7.0	0.033 J	0.608		-3.411248	0.918097
FTASB-10	9.1 - 10.4	0.033 J	0.608		-3.411248	0.918097
FTASB-11	9.5 - 10.0	< 0.12	0.007		-2.120264	0.512758
FTASB-12	8.0 - 10.0	0.02 J	0.700		-3.912023	1.473128
FTASB-13	2.5 - 4.5	0.071 JQ	0.340		-2.645075	0.068914
FTASB-14	4.5 - 6.5	0.041 JQ	0.552		-3.194183	0.677514
FTASB-15	4.5 - 6.5	0.045	0.524		-3.101093	0.574338
FTASB-16	6.5 - 8.1	0.031	0.622		-3.473768	0.987391
FTASB-17	4.5 - 6.5	0.11	0.064		-2.207275	0.416319
HMW-10	2.0 - 4.0	0.033	0.608		-3.411248	0.918097
HMW-11	2.0 - 4.0	0.034	0.601		-3.381395	0.885009
HMW-11	6.0 - 8.0	0.032	0.615		-3.442019	0.952202
HMW-12	1.5 - 3.0	0.035	0.594		-3.352407	0.852881
HMW-12	4.5 - 6.0	0.032	0.615		-3.442019	0.952202
HMW-13	2.0 - 4.0	0.033	0.608		-3.411248	0.918097
HMW-13	8.0 - 10.0	0.03	0.630	Rejected	-3.506558	1.023733

H-21



LEGEND:

- Selenium (mg/kg)

LN(Data) Passed The Filliben Test of NormalityIndicating the Data are Lognormal.
Probability Plot is Detects-Only. 44% NDs. Aitchison's Adjustment used for UBC calculation.

Upper Background Concentration: **1.9 mg/kg**
LN(Data) Adjusted mean + 1.645 Adjusted Standard Deviations.
LN(Data) Adjusted Mean: -0.561 SD: 0.735.

Total of 63 samples, of which 57 data points were used for UBC and 32 for Probability Plot.
No Data Points are statistical outliers.
By ASTM Designation E178-75, 1975.
5% Significance Level.
Six data points, BH-10 (<0.20), BH-11 (<0.20), BH-13 (0.22), BH-13(0.33), FTASB-11 (0.28), and HWM-13 (0.23), are rejected due to being outliers in other metals data sets.

Distribution of Background Selenium
in Soils at Hunter Army Airfield

SELENIUM

Sample ID	Sample Depth (feet)	Concentration (mg/kg)	Outlier Test Statistic
BH-10	0 - 1	< 0.20	0.676
BH-10	7.5-8.5	< 0.20	0.676
BH-11	0 - 1	< 0.20	0.676
BH-11	7.5-8.5	< 0.20	0.676
BH-12	0 - 1	0.79	1.486
BH-12	6.5-7.5	0.60	0.789
BH-13		0.22	0.603
BH-13	0 - 1	0.33	0.200
BH-13	6.0-7.5	< 0.20	0.676
HSB-1	8 - 10	< 0.42	0.130
HSB-2	3 - 5	< 0.45	0.240
HSB-3	6 - 8	< 0.47	0.313
HSB-4	2 - 4	< 0.46	0.276
HSB-5	5 - 8	0.67	1.046
HSB-6	8 - 10	< 0.47	0.313
HS-1	0 - 1	< 0.27	0.420
HS-2	3 - 4	< 0.29	0.347
HS-3	0 - 1	< 0.28	0.383
HS-4	3 - 4	< 0.29	0.347
HS-10	0 - 1	< 0.26	0.456
HS-11	3.5 - 4	< 0.28	0.383
HS-12	0 - 1	< 0.27	0.420
HS-13	3.5 - 4	< 0.28	0.383
HS-14	5.5 - 6.5	< 0.28	0.383
HS-18	0 - 1	< 0.26	0.456
HS-19	3.5 - 4	< 0.28	0.383
HS-7	0 - 1	< 0.28	0.383
HS-8	3 - 5	< 0.28	0.383
HS-9	7.5 - 8.5	< 0.27	0.420
HS-15	0 - 1	< 0.27	0.420
HS-16	3 - 4	< 0.26	0.456
HS-17	6 - 7	< 0.28	0.383
FTASB-04	0.5 - 1.0	0.35	0.127
FTASB-06	0.5 - 1.0	0.438	0.196
FTASB-09	0.5 - 1.0	0.59	0.753
FTASB-10	0.5 - 1.0	0.32	0.237
FTASB-11	0.5 - 1.0	0.28	0.383
FTASB-12	0.5 - 1.0	0.27	0.420
FRASB-13	0.5 - 2.5	0.17	0.786
FTASB-14	0.5 - 2.5	1.1	2.622
FTASB-15	0.5 - 2.5	1.1	2.622
FTASB-16	0.5 - 2.5	1.1	2.622
FTASB-17	0.5 - 2.5	1.1	2.622

All Data W/DLs	
Mean	0.384571
Std. Error	0.034383
Median	0.28
Mode	0.28
Std. Dev.	0.272904
Variance	0.074477
Kurtosis	2.695918
Skewness	1.891535
Range	1.07
Minimum	0.13
Maximum	1.2
Sum	24.228
Count	63
Crit. Val.	3.044

Detects-only Data	LN (Detects-only data)	*LN Detects-only Data*		LN data
0.790	-0.235722	Mean	-1.000075	-1.609438
0.600	-0.510826	Std. Error	0.127877	-1.609438
0.670	-0.400478	Median	-1.094628	-0.235722
0.350	-1.049822	Mode	* 0.09531	-0.510826
0.438	-0.825536	Std. Dev.	0.723383	-1.514128
0.590	-0.527633	Variance	0.523283	-1.108663
0.320	-1.139434	Kurtosis	-1.227867	-1.609438
0.270	-1.309333	Skewness	0.313246	-0.867501
0.170	-1.771957	Range	2.222542	-0.798508
1.100	0.09531	Minimum	-2.040221	-0.755023
1.100	0.09531	Maximum	0.182322	-0.776529
1.100	0.09531	Sum	-32.0024	-0.400478
0.200	-1.609438	Count	32	-0.755023
0.230	-1.469676			-1.309333
0.170	-1.771957			-1.237874
0.150	-1.89712			-1.272966
0.430	-0.84397			-1.237874
0.140	-1.966113			-1.347074
0.130	-2.040221			-1.272966
0.180	-1.714798			-1.309333
0.310	-1.171183			-1.272966
0.170	-1.771957			-1.272966
0.160	-1.832581			-1.347074
1.200	0.182322			-1.272966
1.100	0.09531			-1.272966
0.220	-1.514128			-1.272966
0.250	-1.386294			-1.309333
0.370	-0.994252			-1.309333
0.230	-1.469676			-1.347074
0.540	-0.616186			-1.272966
0.440	-0.820981			-1.049822
				-0.825536
				-0.527633
				-1.139434
				-1.272966
				-1.309333
				-1.771957
				0.09531
				0.09531
				0.09531
				0.09531

Test Statistic for LN data		Txx for outlier
		0.857429
		0.857429
		0.857429
Column1		0.857429
		1.608772
Mean	-1.131835	1.114885
Standard E	0.070178	0.686321
Median	-1.272966	0.041602
Mode	-1.272966	0.857429
Standard E	0.557017	0.474555
Sample Va	0.310268	0.598416
Kurtosis	0.261177	0.676484
Skewness	0.907926	0.637874
Range	2.222542	1.312991
Minimum	-2.040221	0.676484
Maximum	0.182322	0.318658
Sum	-71.30563	0.190369
Count	63	0.253368
		0.190369
		0.386412
		0.253368
		0.318658
		0.253368
		0.253368
		0.386412
		0.253368
		0.253368
		0.253368
		0.318658
		0.318658
		0.386412
		0.253368
		0.147237
		0.549892
		1.084712
		0.013642
		0.253368
		0.318658
		1.149196
		2.203067
		2.203067
		2.203067
		2.203067

AITCHISON'S ADJUSTMENT FOR NONDETECTS			
Mean (Detect-Only)	-1.000		
Std. Dev. (Detect-Only)	0.723		
Total no. of samples	57		
Number of NDs	25		
Adjusted Mean	**-0.561**	mg/kg	log-transformed
Adjusted Std. Dev.	**0.735**	mg/kg	log-transformed

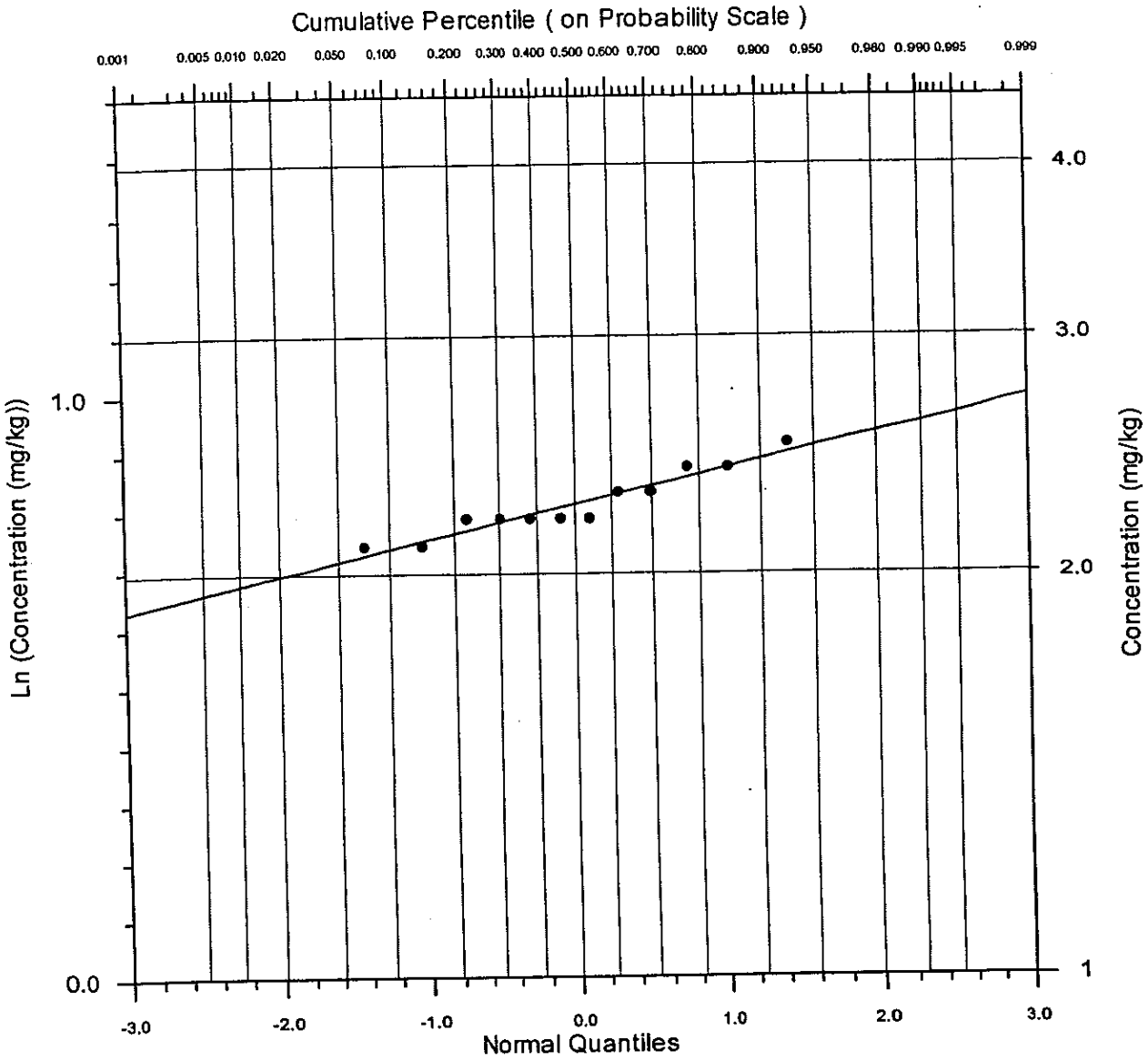
SELENIUM

Sample ID	Sample Depth (feet)	Concentration (mg/kg)	Outlier Test Statistic
HMW-10	0.0 - 2.0	0.2	0.676
HMW-12	1.5 - 3.0	0.23	0.566
FTASB-04	9.0 - 10.5	0.17 J	0.786
FTASB-06	8.5 - 10.5	0.15 J	0.860
FTASB-09	6.0 - 7.0	0.43 J	0.166
FTASB-10	9.1 - 10.4	0.14 J	0.896
FTASB-11	9.5 - 10.0	0.13 J	0.933
FTASB-12	8.0 - 10.0	0.18 J	0.750
FTASB-13	2.5 - 4.5	0.31 JQ	0.273
FTASB-14	4.5 - 6.5	0.17	0.786
FTASB-15	4.5 - 6.5	0.16	0.823
FTASB-16	6.5 - 8.1	1.2	2.988
FTASB-17	4.5 - 6.5	1.1	2.622
HMW-10	2.0 - 4.0	0.22	0.603
HMW-11	2.0 - 4.0	0.25	0.493
HMW-11	6.0 - 8.0	0.37	0.053
HMW-12	1.5 - 3.0	0.23	0.566
HMW-12	4.5 - 6.0	0.54	0.570
HMW-13	2.0 - 4.0	0.44	0.203
HMW-13	8.0 - 10.0	0.23	0.566

	Detects-only Data	LN (Detects-only data)
ubc	0.6477564	
exp ubc	1.9112479	

LN data	Test Statistic for LN data: Txx for outlier
-1.609438	0.857429
-1.469676	0.606518
-1.771957	1.149196
-1.89712	1.373898
-0.84397	0.516798
-1.966113	1.49776
-2.040221	1.630804
-1.714798	1.046581
-1.171183	0.07064
-1.771957	1.149196
-1.832581	1.258034
0.182322	2.359277
0.09531	2.203067
-1.514128	0.686321
-1.386294	0.456824
-0.994252	0.247
-1.469676	0.606518
-0.616186	0.925734
-0.820981	0.558071
-1.469676	0.606518

H-24



LEGEND:

- Silver (mg/kg)

Due to high percentage of non-detects the data can not be validly normalized.
Probability Plot is Detects-Only. 79% NDs.

Upper Background Concentration: **2.6 mg/kg**
Based on non-parametric analysis, UBC is set equal to the maximum observed value.
5% Significance Level and 98% expected coverage.

Total of 63 samples, of which 57 data points were used for UBC and 12 for Probability Plot.
One Data Point, BH-13 (<7.98), is determined to be a statistical outlier.
By ASTM Designation E178-75, 1975.
5% significance level.
Five data points, BH-10 (<3.99), BH-11 (<3.99), BH-13 (<3.99), FTASB-11 (2.2), and HMW-13 (<2.3), are rejected due to being outliers in other metals data sets.

Distribution of Background Silver
in Soils at Hunter Army Airfield

SILVER

Sample ID	Sample Depth (feet)	Concentration (mg/kg)	Outlier Test Statistic
BH-10	0 - 1	< 3.99	1.468595
BH-10	7.5-8.5	< 3.99	1.468595
BH-11	0 - 1	< 3.99	1.468595
BH-11	7.5-8.5	< 3.99	1.468595
BH-12	0 - 1	< 3.99	1.468595
BH-12	6.5-7.5	< 3.99	1.468595
BH-13		< 7.98	4.51297
BH-13	0 - 1	< 3.99	1.468595
BH-13	6.0-7.5	< 3.99	1.468595
HSB-1	8 - 10	< 0.60	1.117978
HSB-2	3 - 5	< 0.65	1.079828
HSB-3	6 - 8	< 0.68	1.056938
HSB-4	2 - 4	< 0.66	1.072198
HSB-5	5 - 8	< 0.73	1.018788
HSB-6	8 - 10	< 0.68	1.056938
HS-1	0 - 1	< 0.78	0.980638
HS-2	3 - 4	< 0.86	0.919598
HS-3	0 - 1	< 0.81	0.957748
HS-4	3 - 4	< 0.83	0.942488
HS-10	0 - 1	< 0.77	0.988268
HS-11	3.5 - 4	< 0.82	0.950118
HS-12	0 - 1	< 0.77	0.988268
HS-13	3.5 - 4	< 0.82	0.950118
HS-14	5.5 - 6.5	< 0.82	0.950118
HS-18	0 - 1	< 0.75	1.003528
HS-19	3.5 - 4	< 0.82	0.950118
HS-7	0 - 1	< 0.81	0.957748
HS-8	3 - 5	< 0.80	0.965378
HS-9	7.5 - 8.5	< 0.80	0.965378
HS-15	0 - 1	< 0.76	0.995898
HS-16	3 - 4	< 0.78	0.980638
HS-17	6 - 7	< 0.81	0.957748
FTASB-04	0.5 - 1.0	2.2	0.102823
FTASB-06	0.5 - 1.0	2.1	0.026523
FTASB-09	0.5 - 1.0	2.5	0.331724
FTASB-10	0.5 - 1.0	2.3	0.179124
FTASB-11	0.5 - 1.0	2.2	0.102823
FTASB-12	0.5 - 1.0	2.4	0.255424
FRASB-13	0.5 - 2.5	2.2	0.102823
FTASB-14	0.5 - 2.5	2.2	0.102823
FTASB-15	0.5 - 2.5	2.2	0.102823
FTASB-16	0.5 - 2.5	2.1	0.026523
FTASB-17	0.5 - 2.5	2.2	0.102823
HMW-10	0.0 - 2.0	2.3	0.179124

22-H

All Data W /DLs	
Mean	2.065238
Std. Error	0.165122
Median	2.2
Mode	2.4
Std. Dev.	1.310614
Variance	1.717709
Kurtosis	5.285285
Skewness	1.585052
Range	7.38
Minimum	0.6
Maximum	7.98
Sum	130.11
Count	63
Crit. Val.	3.044

Test Statistic for LN data

LN data			Txx for outlier
1.383791			1.311066
1.383791			1.311066
1.383791			1.311066
1.383791	*Column1*		1.311066
1.383791			1.311066
1.383791	Mean	0.527662	1.311066
2.076938	Standard E	0.08227	2.372545
1.383791	Median	0.788457	1.311066
1.383791	Mode	0.875469	1.311066
-0.510826	Standard D	0.653002	1.590329
-0.430783	Sample Va	0.426411	1.467753
-0.385662	Kurtosis	-1.136188	1.398656
-0.415515	Skewness	-0.139387	1.444372
-0.314711	Range	2.587764	1.290001
-0.385662	Minimum	-0.510826	1.398656
-0.248461	Maximum	2.076938	1.188548
-0.150823	Sum	33.24273	1.039025
-0.210721	Count	63	1.130753
-0.18633			1.0934
-0.261365			1.208308
-0.198451			1.111962
-0.261365			1.208308
-0.198451			1.111962
-0.198451			1.111962
-0.287682			1.24861
-0.198451			1.111962
-0.210721			1.130753
-0.223144			1.149776
-0.223144			1.149776
-0.274437			1.228326
-0.248461			1.188548
-0.210721			1.130753
0.788457			0.399379
0.741937			0.328138
0.916291			0.595141
0.832909			0.467451
0.788457			0.399379
0.875469			0.532627
0.788457			0.399379
0.788457			0.399379
0.788457			0.399379
0.741937			0.328138
0.788457			0.399379
0.832909			0.467451

SILVER

Sample ID	Sample Depth (feet)	Concentration (mg/kg)	Outlier Test Statistic
HMW-12	1.5 - 3.0	2.4	0.255424
FTASB-04	9.0 - 10.5	< 2.4	0.255424
FTASB-06	8.5 - 10.5	< 2.6	0.408024
FTASB-09	6.0 - 7.0	< 2.3	0.179124
FTASB-10	9.1 - 10.4	< 2.4	0.255424
FTASB-11	9.5 - 10.0	< 2.4	0.255424
FTASB-12	8.0 - 10.0	< 2.5	0.331724
FTASB-13	2.5 - 4.5	< 2.6	0.408024
FTASB-14	4.5 - 6.5	< 2.3	0.179124
FTASB-15	4.5 - 6.5	< 2.3	0.179124
FTASB-16	6.5 - 8.1	< 2.4	0.255424
FTASB-17	4.5 - 6.5	< 2.2	0.102823
HMW-10	2.0 - 4.0	< 2.4	0.255424
HMW-11	2.0 - 4.0	< 2.4	0.255424
HMW-11	6.0 - 8.0	< 2.6	0.408024
HMW-12	1.5 - 3.0	< 2.4	0.255424
HMW-12	4.5 - 6.0	< 2.4	0.255424
HMW-13	2.0 - 4.0	< 2.4	0.255424
HMW-13	8.0 - 10.0	< 2.3	0.179124

H-27

LN data	Test Statistic for LN data Txx for outlier
0.875469	0.532627
0.875469	0.532627
0.955511	0.655203
0.832909	0.467451
0.875469	0.532627
0.875469	0.532627
0.916291	0.595141
0.955511	0.655203
0.832909	0.467451
0.832909	0.467451
0.875469	0.532627
0.788457	0.399379
0.875469	0.532627
0.875469	0.532627
0.955511	0.655203
0.875469	0.532627
0.875469	0.532627
0.875469	0.532627
0.832909	0.467451

Georgia Department of Natural Resources
205 Butler Street, SE, Suite 1462, Atlanta, Georgia 30334
Lonice C. Barrett, Commissioner
Environmental Protection Division
Harold F. Reheis, Director
404/657-8600

May 8, 2001

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Col. Gregory V. Stanley
Department of the Army
1550 Cochran Drive
Fort Stewart, GA 31314

Re: Response to 3/19/01 Meeting Letter
Hunter Army Airfield
HSI #10105

Dear Col. Stanley:

The Georgia Environmental Protection Division (EPD) has received your compliance status report (CSR) response letter dated March 5, 2001 and your April 16, 2001 correspondence following up on our March 19, 2001 meeting regarding the above referenced site. EPD was asked to address issues raised during our meeting pertaining to calculated background concentrations, the methodology used to calculate the background concentrations, and future sampling locations:

1. Background Concentrations - The proposed background concentrations presented on page 5 of CSR response are acceptable to EPD. It should be noted that although Table 2 of Appendix III should not be used for determining site-specific background concentrations, it is useful for comparative purposes in that most background concentrations will be below those levels.

2. Statistical Calculations – The statistical methods described can be used for determining background concentrations; however, they do not necessarily apply to all sites due to variations in site-specific data. The method used to determine multiple outliers in a dataset should be stated in the revised CSR and included in an appendix along with the other statistical methods used in the CSR.

3. Proposed Sampling Locations – The sample locations shown in Figure 1 of the CSR response surrounding SB-30 appear sufficient to delineate the site with the following exceptions. Two more sample locations (in addition to SB-45) are needed to delineate the southern boundary near SB-35. One location is needed to the west of SB-45 and south of SB-36. The other location to be added is to the east of SB-45 across Lightning Road. The purpose of proposed sampling locations SB-47 and SB-48 is unclear and needs to be explained before EPD can comment on them.

For specific answers to questions concerning risk assessment calculations and ecological evaluations, you may contact Michelle Burgess or Ahmet Bulbakaya at (404) 656-7802. Please contact David Brownlee of the Hazardous Site Response Program at (404) 657-8600 if you have questions regarding this letter.

Sincerely,

Jane Hendricks
Unit Coordinator
Hazardous Sites Response Program

c: Melanie Little

File: Site #10105

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REVISED GA EPD TABLE, REVISED VOLATILIZATION FACTORS (VF)
REVISED RISK REDUCTION STANDARDS FOR RESPONSE TO COMMENT

Regulated Substance in Soil	Type RRS	Previous Hunter AAF Criteria (mg/kg)	Updated Hunter AAF Criteria (mg/kg) *	GaEPD Criteria (mg/kg)	Comment
Benzene	Type 2 Type 4	1.4 3.9	14 69	5 ?	Unable to recreate EPD values. Per prior discussion with Dr. Cliff Opdyke, LAW is using mid-range value of oral cancer slope factor. Recently (February 2001), Michelle Burgess confirmed this decision.
Benzo(k)fluoranthene	Type 2	120	125	14	Unable to recreate EPD value.
Chrysene	Type 2	1200	1250	125	Unable to recreate EPD value.
? Dinitrotoluene	Type 1	0.66	0.66	100	See written response under Comment 11c.
Ethylbenzene	Type 2	550	3340	1562	Unable to recreate EPD value.
Naphthalene	Type 1	93	100	100	Updated VF resulted in agreement with EPD value.
Trichlorofluoromethane	Type 1	150	200	200	Agree with EPD.
Regulated Substance in GW	**Type RRS**	**Previous Hunter AAF Criteria (mg/kg)**	**Updated Hunter AAF Criteria (mg/kg) ***	**GaEPD Criteria (mg/L)**	**Comments**
Benzene	Type 4	0.014	NA	0.009	LAW used mid-range of oral cancer slope factor.
Lead	Type 4	0.015	NA	Background	LAW used Type 1 criteria for all Types.

*Updated soil criteria use revised volatilization factors.
NA Not applicable

TABLE 1

VOLATILIZATION FACTOR CALCULATION

	MW	Di	Dei	K_d	H	K_{as}	Y	VF
	g/mol	cm^2/sec	cm^2/sec	cm^3/g	$atm\text{-}m^3/mol$	g/cm^3	cm^2/sec	m^3/kg
2,4-Dinitrotoluene	182.14	2.03E-01	0.0163	1.38	9.26E-08	2.75E-06	9.11E-09	1.51E+06
2-Butanone	72.12	0.0872	0.0070	0.038	5.59E-05	6.03E-02	8.48E-05	1.55E+04
Acenaphthene	154.21	0.0421	0.0034	141.6	1.55E-04	4.49E-05	3.08E-08	8.23E+05
Acenaphthylene	152.2	0.05441461	0.0044	62	1.10E-04	7.27E-05	6.46E-08	5.69E+05
Acetone	58.1	0.124	0.0100	0.012	3.88E-05	1.33E-01	2.61E-04	8.71E+03
Anthracene	178.24	0.0324	0.0026	590	6.50E-05	4.52E-06	2.39E-09	2.96E+06
Benzene	78.11	0.088	0.0071	1.18	5.55E-03	1.93E-01	2.66E-04	8.52E+03
Benzo(a)anthracene	228.3	0.051	0.0041	7960	3.35E-06	1.73E-08	1.44E-11	3.82E+07
Benzo(a)pyrene	252.32	0.043	0.0035	20400	1.13E-06	2.27E-09	1.59E-12	1.15E+08
Benzo(b)fluoranthene	252.32	0.0226	0.0018	24600	1.11E-04	1.85E-07	6.82E-11	1.75E+07
Benzo(g,h,i)perylene	276.34	0.04742653	0.0038	77000	1.40E-07	7.45E-11	5.77E-14	6.02E+08
Benzo(k)fluoranthene	252.32	0.0226	0.0018	24600	8.29E-07	1.38E-09	5.09E-13	2.03E+08
bis(2-Ethylhexyl)phthalate	390.6	0.0351	0.0028	302000	1.02E-07	1.38E-11	7.93E-15	1.62E+09
Chlorobenzene	112.56	0.073	0.0059	4.38	3.70E-03	3.46E-02	4.10E-05	2.24E+04
Chloromethane	50.48	0.13	0.0104	0.13	8.80E-03	2.78E+00	3.76E-03	1.51E+03
Chrysene	228.3	0.0248	0.0020	7960	9.46E-05	4.87E-07	1.97E-10	1.03E+07
Dibenzo(a,h)anthracene	278.36	0.0202	0.0016	76000	1.47E-08	7.93E-12	2.61E-15	2.83E+09
Dibutyl phthalate	278.4	0.0438	0.0035	678	9.38E-10	5.67E-11	4.05E-14	7.18E+08
cis-1,2-Dichloroethene	96.94	0.0736	0.0059	0.71	4.08E-03	2.36E-01	2.70E-04	8.40E+03
Dieldrin	380.91	0.0125	0.0010	428	1.51E-05	1.45E-06	2.95E-10	8.42E+06
Diethyl phthalate	222.24	0.0256	0.0021	5.76	4.50E-07	3.20E-06	1.34E-09	3.95E+06
Ethylbenzene	106.17	0.075	0.0060	7.26	7.88E-03	4.45E-02	5.40E-05	1.95E+04
Fluoranthene	202.26	0.0302	0.0024	2140	1.61E-05	3.08E-07	1.52E-10	1.17E+07
Fluorene	166.22	0.0363	0.0029	276	6.36E-05	9.45E-06	5.60E-09	1.93E+06
Indeno(1,2,3-cd)pyrene	276.34	0.019	0.0015	69400	1.60E-06	9.45E-10	2.93E-13	2.67E+08
Methoxychlor	345.66	0.0156	0.0013	1954	1.58E-05	3.32E-07	8.44E-11	1.57E+07
Methylene Chloride	84.93	0.101	0.0081	0.234	2.19E-03	3.84E-01	5.87E-04	5.54E+03
Naphthalene	128.18	0.059	0.0047	40	4.83E-04	4.95E-04	4.77E-07	2.09E+05
Phenanthrene	178.24	0.0574	0.0046	590	2.30E-05	1.60E-06	1.50E-09	3.74E+06
Pyrene	202.26	0.0272	0.0022	2100	1.10E-05	2.15E-07	9.53E-11	1.48E+07
Tetrachloroethylene	165.83	0.072	0.0058	3.1	1.84E-02	2.43E-01	2.72E-04	8.35E+03

Prepared by: EF 2/15/01
Checked by: LI 16/01

H-31

VOLATILIZATION FACTOR CALCULATION

	MW	Di	Dei	K_d	H	K_{as}	Y	VF
	g/mol	cm^2/sec	cm^2/sec	cm^3/g	atm-m^3/mol	g/cm^3	cm^2/sec	m^3/kg
Toluene	92.14	0.087	0.0070	3.64	6.64E-03	7.48E-02	1.05E-04	1.39E+04
trans-1,2-Dichloroethene	96.94	0.0707	0.0057	1.05	9.39E-03	3.67E-01	3.94E-04	6.78E+03
Trichlorofluoromethane	137.37	0.087	0.0070	2.4	9.70E-02	1.66E+00	1.76E-03	2.58E+03
Xylenes	106.17	0.078	0.0063	7.72	6.73E-03	3.57E-02	4.52E-05	2.14E+04

Equation is from USEPA, 1991b.

VF = Volatilization Factor (m^3/kg)

$$VF = (LS \times V \times DH) / (A) * \frac{(3.14 \times Y \times T)^{1/2}}{(2 \times Dei \times P \times Kas \times 0.001)}$$

$$Y = \frac{Dei \times P}{P + (p(1-P)/Kas)}$$

LS = Length of side of contaminated area = 45 m (default)
V = wind speed in mixing zone = 2.25 m/s (default)
DH = diffusion height = 2 m
A = area of contamination = 20,250,000 cm^2 (default)
T = exposure interval = 790000000 s = 25 yrs
Dei = effective diffusivity (cm^2/s) = Chemical Specific
P = air filled soil porosity (unitless) = 0.35 (default)
Kas = soil/air partition coefficient (g soil/cm^3 air) = Chemical Specific
Conversion factor = 0.001 kg/g
p = True soil density or particulate density = 2.65 g/cm^3 (default)

NC = Not Calculable

Prepared by: EFC 2/15/01
Checked by: LMS 2/16/01

Hunter AAF, Savannah, Georgia
Summary of Soil Risk Reduction Standards

Substance	Type 1	Type 2	Subsurface Type 3	Overall Type 3	Overall Type 4 RRS
2,4-Dinitrotoluene	6.60E-01	1.34E+01	6.60E-01	6.60E-01	8.42E+01
2-Butanone	2.00E+02	4.26E+03	2.00E+02	2.00E+02	2.25E+04
Acenaphthene	3.00E+02	4.69E+03	3.00E+02	3.00E+02	1.23E+05
Acenaphthylene	1.30E+02	2.35E+03	1.30E+02	1.30E+02	6.13E+04
Acetone	4.00E+02	7.30E+04	4.00E+02	4.00E+02	2.04E+05
Anthracene	5.00E+02	2.35E+04	5.00E+02	5.00E+02	6.13E+05
Benzene	5.00E-01	1.42E+01	5.00E-01	5.00E-01	6.87E+01
Benzo(a)anthracene	5.00E+00	1.25E+01	5.00E+00	5.00E+00	7.84E+01
Benzo(a)pyrene	1.64E+00	1.25E+00	1.64E+00	1.64E+00	7.84E+00
Benzo(b)fluoranthene	5.00E+00	1.25E+01	5.00E+00	5.00E+00	7.84E+01
Benzo(ghi)perylene	5.00E+02	2.35E+03	5.00E+02	5.00E+02	6.13E+04
Benzo(k)fluoranthene	5.00E+00	1.25E+02	5.00E+00	5.00E+00	7.84E+02
bis(2-Ethylhexyl) phthalate	5.00E+01	6.52E+02	5.00E+01	5.00E+01	4.09E+03
Chlorobenzene	1.00E+01	1.23E+02	1.00E+01	1.00E+01	6.43E+02
Chloromethane	3.00E-01	2.01E+01	3.00E-01	3.00E-01	3.40E+01
Chrysene	5.00E+00	1.25E+03	5.00E+00	5.00E+00	7.84E+03
DCE, trans-1,2-	1.00E+01	1.56E+03	1.00E+01	1.00E+01	4.09E+04
Dibenzo(a,h)anthracene	2.05E+00	1.25E+00	5.00E+00	5.00E+00	7.84E+00
Dibutyl phthalate	4.00E+02	7.82E+03	4.00E+02	4.00E+02	2.04E+05
Dichloroethylene, N.O.S.	5.30E-01	7.82E+02	5.30E-01	5.30E-01	2.04E+04
Dieldrin	6.60E-01	5.70E-01	6.60E-01	6.60E-01	3.58E+00
Diethyl phthalate	5.00E+02	6.26E+04	5.00E+02	5.00E+02	1.64E+06
Ethylbenzene	7.00E+01	3.34E+03	7.00E+01	7.00E+01	2.50E+04
Fluoranthene	5.00E+02	3.13E+03	5.00E+02	5.00E+02	8.18E+04
Fluorene	3.60E+02	3.13E+03	3.60E+02	3.60E+02	8.18E+04
Indeno(1,2,3-cd)pyrene	5.00E+00	1.25E+01	5.00E+00	5.00E+00	7.84E+01
Methoxychlor	1.00E+01	3.91E+02	1.00E+01	1.00E+01	1.02E+04
Methylene chloride	5.00E-01	2.55E+02	5.00E-01	5.00E-01	4.55E+02
Naphthalene	1.00E+02	1.67E+02	1.00E+02	1.00E+02	8.98E+02
Phenanthrene	1.10E+02	2.35E+03	1.10E+02	1.10E+02	6.13E+04
Pyrene	5.00E+02	2.35E+03	5.00E+02	5.00E+02	6.13E+04
Tetrachloroethene	5.00E-01	1.30E+02	5.00E-01	5.00E-01	3.87E+02
Toluene	1.00E+02	1.49E+03	1.00E+02	1.00E+02	7.94E+03
Trichlorofluoromethane	2.00E+02	5.26E+02	2.00E+02	2.00E+02	2.63E+03
Xylenes	1.00E+03	1.56E+05	1.00E+03	1.00E+03	4.09E+06

Hunter AAF, Savannah, Georgia
Type 1 and 3 Soil Calculations

SUBSTANCE	Appendix I	Type 1 GW x 100	Risk-Based Residential Type 1 NC-Type 1	Risk-Based Residential Type 1 C-Type 1	Type 1 RRS	Risk-Based Nonresidential Type 3 NC-Type 3	Risk-Based Nonresidential Type 3 C-Type 3	Subsurface Soil Type 3 RRS	Overall Soil Type 3 RRS
2,4-Dinitrotoluene	6.6E-01	5.0E-03	1.3E+03	2.2E+01	6.6E-01	4.1E+03	8.4E+01	6.6E-01	6.6E-01
2-Butanone	7.9E-01	2.0E+02	2.1E+04	ND	2.0E+02	2.3E+04	ND	2.0E+02	2.0E+02
Acenaphthene	3.0E+02	2.0E+02	3.8E+04	ND	3.0E+02	1.2E+05	ND	3.0E+02	3.0E+02
Acenaphthylene	1.3E+02	1.0E+00	1.9E+04	ND	1.3E+02	6.1E+04	ND	1.3E+02	1.3E+02
Acetone	2.7E+00	4.0E+02	2.0E+05	ND	4.0E+02	2.0E+05	ND	4.0E+02	4.0E+02
Anthracene	5.0E+02	1.0E+00	1.9E+05	ND	5.0E+02	6.1E+05	ND	5.0E+02	5.0E+02
Benzene	2.0E-02	5.0E-01	6.8E+01	5.0E+01	5.0E-01	7.3E+01	6.9E+01	5.0E-01	5.0E-01
Benzo(a)anthracene	5.0E+00	1.0E-02	ND	2.0E+01	5.0E+00	ND	7.8E+01	5.0E+00	5.0E+00
Benzo(a)pyrene	1.6E+00	2.0E-02	ND	2.0E+00	1.64E+00	ND	7.8E+00	1.64E+00	1.64E+00
Benzo(b)fluoranthene	5.0E+00	2.0E-02	ND	2.0E+01	5.0E+00	ND	7.8E+01	5.0E+00	5.0E+00
Benzo(ghi)perylene	5.0E+02	1.0E+00	1.9E+04	ND	5.0E+02	6.1E+04	ND	5.0E+02	5.0E+02
Benzo(k)fluoranthene	5.0E+00	1.0E+00	ND	2.0E+02	5.0E+00	ND	7.8E+02	5.0E+00	5.0E+00
bis(2-Ethylhexyl) phthalate	5.0E+01	6.0E-01	1.3E+04	1.1E+03	5.0E+01	4.1E+04	4.1E+03	5.0E+01	5.0E+01
Chlorobenzene	4.2E+00	1.0E+01	5.9E+02	ND	1.0E+01	6.4E+02	ND	1.0E+01	1.0E+01
Chloromethane	4.0E-02	3.0E-01	6.3E+02	2.7E+01	3.0E-01	6.6E+02	3.4E+01	3.0E-01	3.0E-01
Chrysene	5.0E+00	2.0E-02	ND	2.0E+03	5.0E+00	ND	7.8E+03	5.0E+00	5.0E+00
DCE, trans-1,2-	5.3E-01	1.0E+01	1.3E+04	ND	1.0E+01	4.1E+04	ND	1.0E+01	1.0E+01
Dibenzo(a,h)anthracene	5.0E+00	3.0E-02	ND	2.0E+00	2.0E+00	ND	7.8E+00	5.0E+00	5.0E+00
Dibutyl phthalate	1.4E+01	4.0E+02	6.4E+04	ND	4.0E+02	2.0E+05	ND	4.0E+02	4.0E+02
Dichloroethylene, N.O.S.	5.3E-01		6.4E+03	ND	5.3E-01	2.0E+04	ND	5.3E-01	5.3E-01
Dieldrin	6.6E-01	2.0E-03	3.2E+01	9.3E-01	6.6E-01	1.0E+02	3.6E+00	6.6E-01	6.6E-01
Diethyl phthalate	7.4E-01	5.0E+02	5.1E+05	ND	5.0E+02	1.6E+06	ND	5.0E+02	5.0E+02
Ethylbenzene	2.0E+01	7.0E+01	1.9E+04	ND	7.0E+01	2.5E+04	ND	7.0E+01	7.0E+01
Fluoranthene	5.0E+02	1.0E+02	2.6E+04	ND	5.0E+02	8.2E+04	ND	5.0E+02	5.0E+02
Fluorene	3.6E+02	1.0E+02	2.6E+04	ND	3.6E+02	8.2E+04	ND	3.6E+02	3.6E+02
Indeno(1,2,3-cd)pyrene	5.0E+00	4.0E-02	ND	2.0E+01	5.0E+00	ND	7.8E+01	5.0E+00	5.0E+00
Methoxychlor	1.0E+01	4.0E+00	3.2E+03	ND	1.0E+01	1.0E+04	ND	1.0E+01	1.0E+01
Methylene chloride	8.0E-02	5.0E-01	1.4E+04	3.2E+02	5.0E-01	2.0E+04	4.5E+02	5.0E-01	5.0E-01
Naphthalene	1.0E+02	2.0E+00	8.2E+02	ND	1.0E+02	9.0E+02	ND	1.0E+02	1.0E+02
Phenanthrene	1.1E+02		1.9E+04	ND	1.1E+02	6.1E+04	ND	1.1E+02	1.1E+02
Pyrene	5.0E+02	1.0E+02	1.9E+04	ND	5.0E+02	6.1E+04	ND	5.0E+02	5.0E+02
Tetrachloroethene	1.8E-01	5.0E-01	6.4E+03	1.8E+02	5.0E-01	2.0E+04	3.9E+02	5.0E-01	5.0E-01
Toluene	1.4E+01	1.0E+02	7.3E+03	ND	1.0E+02	7.9E+03	ND	1.0E+02	1.0E+02
Trichlorofluoromethane	7.0E-01	2.0E+02	2.5E+03	ND	2.0E+02	2.6E+03	ND	2.0E+02	2.0E+02
Xylenes	2.0E+01	1.0E+03	1.3E+06	ND	1.0E+03	4.1E+06	ND	1.0E+03	1.0E+03

H-24