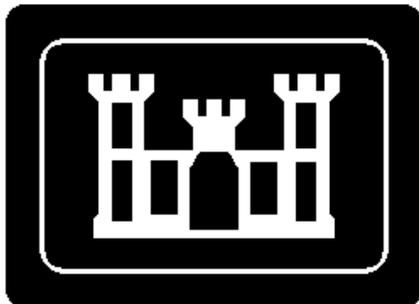


RCRA FACILITY INVESTIGATION REPORT

FOR

FH-021 (Vehicle Battery Burial Site) FORT HOOD, TEXAS

PREPARED FOR



U.S. ARMY CORPS OF ENGINEERS FORT WORTH DISTRICT

CONTRACT NO. DACA63-96-D-0021

MARCH 1999

SAIC Science Applications
International Corporation
An Employee-Owned Company

**RCRA Facility Investigation Report
For
Site FH-021 (Vehicle Battery Burial Site)**

**Prepared for
U.S. Army Corps of Engineers
Fort Worth District
Fort Worth, Texas**

**Under Contract Number
DACA63-96-D-0021**

**Prepared by
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March 1999

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ACRONYMS

AA	Atomic absorption
ATV	All-terrain Vehicle
BEGM	Bureau of Economic Geology
BG	background
BGS	below ground surface
CQAR	Chemical Quality Assurance Report
DOT	Department of Transportation
DPW	Directorate of Public Works
EM	Electromagnetic
FH	Fort Hood
ft	feet or foot
GC/MS	Gas Chromatography/Mass Spectrometry
ICP	Inductively coupled plasma
IDW	Investigation Derived Waste
LCS	Laboratory Control Samples
MSC	medium specific concentration
msl	mean sea level
MS/MSDs	Matrix Spike/Matrix Spike Duplicate
ppb	parts per billion
ppm	parts per million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RRS	Risk Reduction Standards
SAIC	Science Applications International Corporation
SWMU	Solid Waste Management Unit
TCLP	Toxicity Characteristic Leaching Procedure
TNRCC	Texas Natural Resources Conservation Commission
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
UTL	upper tolerance limit

1.0 INTRODUCTION

Fort Hood is an active U.S. Army installation occupying 217,551 acres (339 square miles) in southern Coryell and Bell Counties in central Texas. It is situated 60 miles north of Austin, and about 50 miles south of Waco. The installation is located north of and adjacent to the city of Killeen, east of and adjacent to the city of Copperas Cove, and four miles south of the city of Gatesville. A vicinity map is shown in Figure 1.1.

Fort Hood began operations in 1942. Robert Gray Air Field, originally operated by the Air Force as Robert Gray Air Force Base, was established in 1947 (U. S. Army 1996a). Fort Hood's mission is training, testing, and deployment of military personnel and equipment. The post is commanded by the III Corps Commander. Currently, the post supports two full armored divisions (the 1st Cavalry and 4th Infantry Divisions). Forty-three thousand military personnel are stationed there; and an additional 30,000 family members, civilians, volunteers, and private-sector employees also live or work at Fort Hood (U.S. Army 1996b). Among the military assets of Fort Hood are approximately 2,500 tracked vehicles, over 11,000 wheeled vehicles, six fixed wing aircraft, and 230 rotary-wing aircraft. The post has 67 active firing and demolition ranges.

The Fort Hood military reservation is regulated under the Resource Conservation and Recovery Act (RCRA) as a hazardous waste management facility. Fort Hood has a RCRA permit to operate three hazardous waste storage units. The RCRA permit requires that Fort Hood perform a RCRA Facility Investigation (RFI) for 40 solid waste management units (SWMUs) listed in the permit. These SWMUs are distributed across the military reservation, in the main cantonment, West Fort Hood, and North Fort Hood. They include former solid waste landfills and burial sites, former and inactive underground storage tank locations, active wash rack/sewer systems, effluent ponds, and a sanitary sewer network. An installation map is shown in Figure 1.2.

This report describes the collection and analysis of data from SWMU FH-021, Vehicle Battery Burial Site, one of 35 SWMUs investigated during the RFI conducted November 1996 through 1997. FH-021 is located north of the intersection of 16th Street and 18th Street at North Fort Hood. It is surrounded by SWMUs FH-002, -013, -014 and -015.

1.1 BACKGROUND

FH-021 is a suspected old burial site consisting of a single trench approximately 6 feet by 10 feet in size. The burial site was reportedly used only for the disposal of military vehicle lead-acid batteries. The site is surrounded by four abandoned sanitary landfills (FH-002, -013, -014 and -015). The landfills operated in the 1970's as trench-type landfills that received municipal solid waste, construction debris, and rubble.

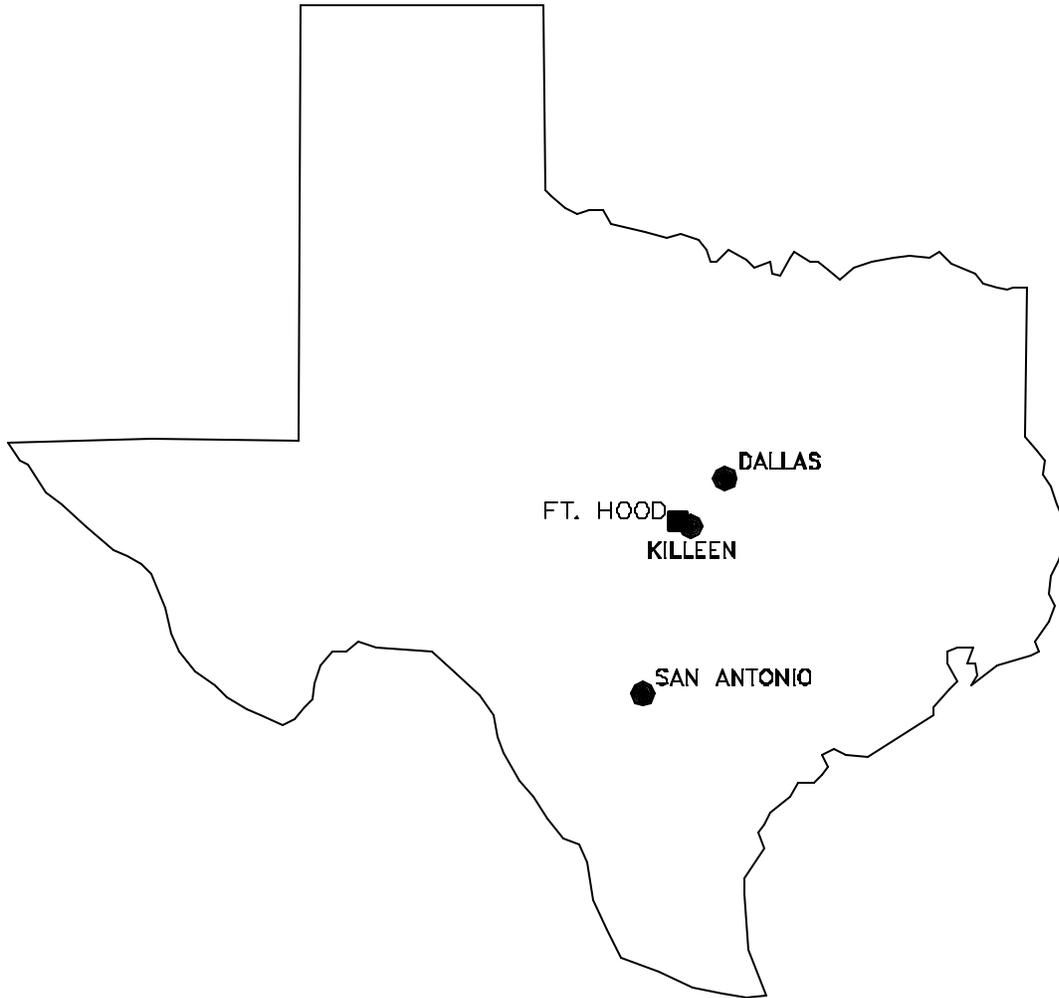
1.2 SCOPE AND OBJECTIVES

The objective of the RFI at FH-021 was to determine if lead-acid batteries were disposed at the site by identifying the precise location of the site and, if located, to determine if contamination is present. This report presents the results of the investigation and recommends what, if any, additional measures are needed.

The specific objectives of the investigation of FH-021 were as follows:

- C identify the boundaries of the suspected burial site, and if present, the perimeters of the site;
- C determine/confirm the presence or absence of contaminants in the soils within the site;
- C characterize the migration potential of any contaminants identified in the soils.

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U.S. ARMY
FORT HOOD, TEXAS



RCRA FACILITY INVESTIGATION

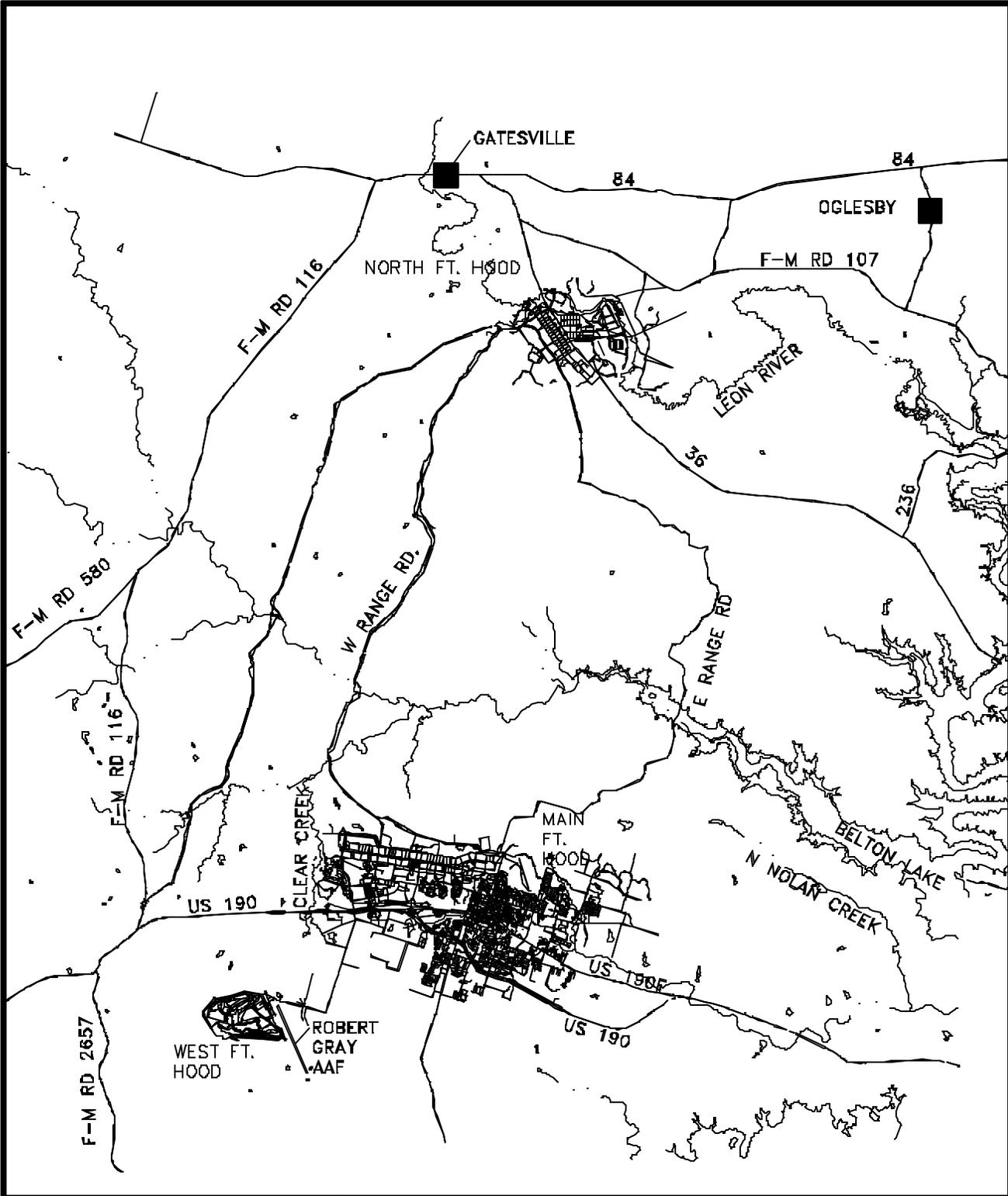
**FORT HOOD
VICINITY MAP**



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LEGEND

-  MAJOR ROADS
-  RIVERS/STREAMS
-  WATER BODIES

U.S. ARMY
FORT HOOD, TEXAS

RCRA FACILITY INVESTIGATION

FT. HOOD INSTALLATION MAP



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			1"=7000M		1.2

The approach to the RFI included geophysics, field sampling, and laboratory analysis of subsurface soils. The sampling and analysis program was conducted in accordance with the Final RCRA Facility Investigation Work Plan for Fort Hood Site FH-021 (USACE 1995).

2.0 ENVIRONMENTAL SETTING

The material presented in this section describes the physical characteristics of FH-021 and its surroundings. The geology, physiography, and climate are presented using regional and site-specific data where available.

2.1 PHYSIOGRAPHIC SETTING

Fort Hood is located within the eastern edge of the Lampasas Cut Plains region of the North-Central Plains physiographic province. The topography of Fort Hood consists of small stream valleys separated by ridge-forming mesas. Relief is as great as 340 ft. The Black and Blackwell Mountains are prominent features north of the main cantonment, as are Seven Mile Mountain at West Fort Hood, and the Dalton Mountains southwest of North Fort Hood. A topographic map of the North Fort Hood is provided in Figure 2.1.

Local relief on the main cantonment and at West Fort Hood is generally less than 100 ft, with flat to gently rolling topography. North Fort Hood is also relatively flat with some gently rolling hills. Elevations at North Fort Hood range from 700 to 820 ft above mean sea level (msl). The Dalton Mountains southwest of North Fort Hood peak at 960 ft above msl. SWMU FH-021 elevation is approximately 720 ft above msl.

Surface drainage on North Fort Hood is primarily through Turnover Creek, which drains to the Leon River. Other unnamed tributaries also drain the central and southern portions of the north cantonment. The Leon River flows eastward, and drains into a northern branch of Belton Lake. Henson Creek drains the north central portion of North Fort Hood, and flows to the east, about 1.5 miles south of the north cantonment.

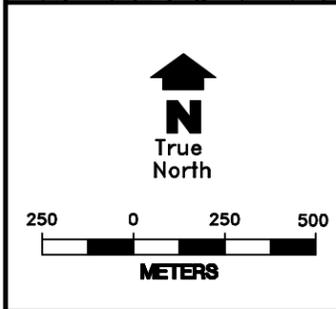
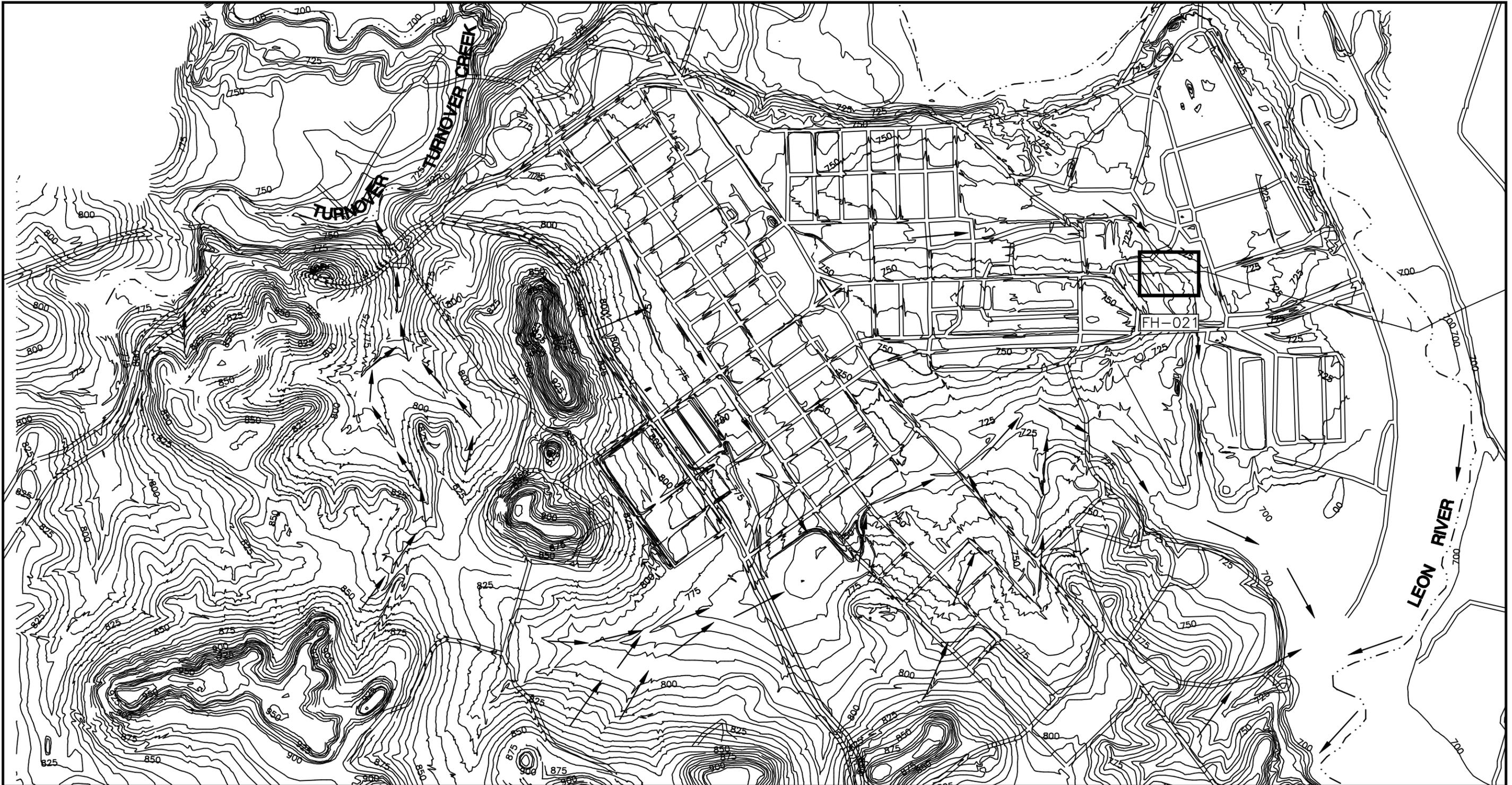
2.2 GEOLOGIC CONDITIONS

A summary of the geology of the Fort Hood area relevant to this RFI is adapted from the Final RCRA Facility Investigation Work Plan, 35 Solid Waste Management Units, Fort Hood, Texas (USACE 1995). Relevant information on the occurrences of soils and bedrock has been incorporated to further characterize the geology of FH-021 and its surroundings.

2.2.1 Bedrock

Lower Cretaceous marine sedimentary rocks make up the stratigraphy underlying Fort Hood. The Fredericksburg Group consists of several stratigraphic units. The Walnut Formation is the lowermost unit of the Fredericksburg Group and is the dominant stratigraphic unit in the main cantonment. It consists of shales with interbedded limestone, chalky nodular limestone, and shell aggregates. The fossiliferous Walnut Formation is exposed in many locations at Fort Hood. It varies in thickness from 100 to 150 ft (BEGM 1979). At North Fort Hood, it may be exposed on the ground surface or be found to a depth of 55 ft (USACE 1995). The Comanche Peak Formation and an undifferentiated unit overlie the Walnut Formation, but are present at the surface only north of the main cantonment in the Black and Blackwell Mountains, and on West Fort Hood on Seven Mile Mountain. Bedrock dips gently to the southeast throughout the area. Inactive faults are present in the subsurface to the east of Fort Hood along the Balcones Fault Zone, which runs through Bell, McLennan, and Hill Counties.

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LEGEND

-  TOPOGRAPHIC CONTOUR (FT.)
-  DRAINAGE
-  SURFACE DRAINAGE FLOW
-  FH-021

U.S. ARMY
FORT HOOD, TEXAS



RCRA FACILITY INVESTIGATION

**TOPOGRAPHY AND DRAINAGE
OF NORTH FT. HOOD**



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2.2.2 Unconsolidated Materials

The eastern edge of North Fort Hood is underlain by Quaternary terrace deposits associated with the Leon River. Clay soils of varying thicknesses (from 0 to 30 ft) overlie Walnut Formation strata on North Fort Hood. It is suspected that much alluvium and other natural surface deposits have been reworked throughout the active life of Fort Hood during construction projects.

2.3 CHARACTERIZATION OF SOILS

In many areas of the north cantonment, silty or sandy clay soils overlie bedrock. In upland areas, these soils contain abundant rock fragments. In general, these soils have low permeabilities (USDA 1985a,b). They range in thickness from 15 to 30 ft. Because soils have been extensively reworked for construction and landfilling in the SWMUs that were investigated, it is difficult to apply the USDA classification to the soils encountered on North Fort Hood.

2.4 CHARACTERIZATION OF CLIMATE

The climate of the Fort Hood-Killeen area can be characterized as semi-arid continental. Winters (December-March) are mild, with the average daily maximum temperature in January (the coldest month) reaching 60° F. Below-freezing temperatures occur on an average of 23 days per year. The normal daily winter temperature range is 42 to 62° F. At times, strong northerly winds accompanied by sharp drops in temperature occur during the winter months. Summers (June-September) are hot and dry. The average daily maximum temperature in August, the hottest month, reaches 95.9° F. The normal daily temperature range for summer is 75 to 95° F. The average daily temperature in Killeen is 68.1° F.

Average annual rainfall in the Killeen area is 30.4 inches, and is most concentrated from September to May (U.S. Army 1996). Snowfall is rare. The average annual humidity in the region is 55 percent. Total rainfall for 1996 at Fort Hood was 26.7 inches. The ten months prior to the start of the field program for this RFI were anomalously dry. During the five-month period in which the field program of the RFI was conducted, precipitation was higher than the historical monthly averages. Severe weather in the form of heavy rain, hail storms, and ice storms is common in the winter months.

3.0 UNIT CHARACTERIZATION

Site FH-021 is currently covered by grasses and small areas of scrub brush. No buildings or buried utilities are present on the site. An overhead utility line extends westward from 18th Street just north of FH-021. Surface depressions oriented northwest-southeast are visible on the site, suggesting past disposal and subsequent settling at these locations. Photographs of the site from March 1997 are presented in Figure 3.1. The photographs were taken during excavation of the trenches at the site. The photographs show typical landfill debris unearthed during trenching. Groundwater was encountered while trenching at approximately 3 ft below ground surface (BGS).

No previous investigations have been performed at FH-021 to either identify the location of the burial site or to characterize the material at the site. In addition, no previous data or historical information were discovered during a site visit conducted in April 1995. The only known waste material reportedly disposed at the site was military vehicle lead-acid batteries. Therefore, the only anticipated contaminants of concern are corrosivity (pH>2) and lead. The site is completely surrounded by SWMU's FH-002, -013, -014, and -015. Potential contamination resulting from migration of contaminants from the surrounding units does exist at FH-021.



Figure 3.1 Photographs of FH-021

4.0 CHARACTERIZATION OF UNIT CONTAMINATION

The RFI field program was designed to do the following at SWMU FH-021:

- C identify the boundaries of the burial site, and if present, the perimeters of the site;
- C determine/confirm the presence or absence of contaminants in the soils within the site; and,
- C characterize the migration potential of any contaminants identified in the soils.

4.1 TECHNICAL APPROACH

4.1.1 Geophysical Investigation

An EM-31 unit was used to determine electromagnetic (EM) conductivity in the suspected burial site. The survey was designed with the lines spaced five feet apart, and the grid points on each line spaced at five-foot intervals. A less dense grid spacing was used around the boundaries of the site. The objective of the survey design was to locate conductivity anomalies indicative of buried wastes or disturbed soils in FH-021, and thereby define the lateral boundaries of the site. The data were collected continuously across the northwest-southeast oriented rectangular grid. Collection of in-phase and quadrature data in both the horizontal and vertical dipole orientations permit high-resolution mapping of subsurface anomalies to a depth of approximately 18 ft. The preliminary location of the burial site boundaries was based on interviews with Fort Hood personnel.

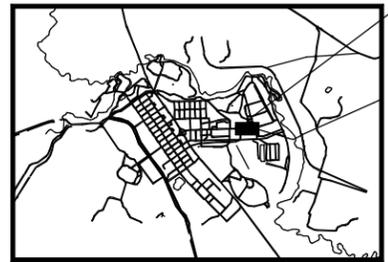
The geophysical investigation was conducted in February 1997. Conditions during the investigation varied from very wet to dry. Data were collected electronically and processed to create contour maps of anomalies. The maps showing electromagnetic anomalies (vertical quadrature, vertical in-phase, horizontal quadrature, horizontal in-phase) are presented in Figure 4.1.

4.1.2 Soil Sampling Investigation

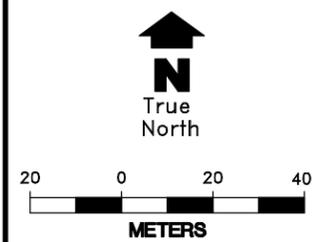
Soil trenches were excavated in the suspected burial site and sampled to meet the RFI objectives outlined above. The trench locations were selected at the approximate locations of the two most prominent conductivity anomalies observed during the geophysical survey (see Figure 4.2). These trenches also roughly coincided with the positions of two prominent surface depressions indicative of trench landfilling. Two northeast-southwest trending trenches on the north and south ends of the site were roughly 40 ft long and 3 ft wide. Two additional trenches were added perpendicular to the first two, to create two T-shaped excavations. The maximum depth of any trench was 8 ft and in Trench Number 2 rock was encountered at the bottom of the excavation at 7 feet depth. Small test pits were also excavated to delineate the northern limit of waste placement based on visual observations and the geophysical survey. All excavation work was conducted using a backhoe. Groundwater was encountered during trenching activities at approximately 3 ft BGS. Landfill materials were visibly present in both trenches below the water table (see photographs in Figure 3.1). Among the debris excavated at FH-021 that may have caused geophysical anomalies were bales of barbed wire, a washing machine, and metal storage lockers. Municipal refuse and demolition debris were the most common landfill constituents including, wire, metal banding, cans, and bottles. However, there was no physical evidence of vehicle batteries in any of the trenches excavated. The vertical limit of refuse placement was defined by the occurrence of bedrock from 7 to 8 ft BGS. Trenching logs for FH-021 are provided in Appendix A.

Soil samples were collected from the trenches in March 1997. Two samples were collected from each trench and the locations of the sampling points are shown in Figure 4.2. Soil was collected from the excavator bucket

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FH-021
NORTH FT. HOOD LOCATION MAP



LEGEND

	TOPOGRAPHIC CONTOUR (FT.)
	DRAINAGE
	TRENCH
	DEPRESSIONS
	INPHASE RESPONSE (PPT)

-3 4 6 7 10

U.S. ARMY
 FORT HOOD, TEXAS

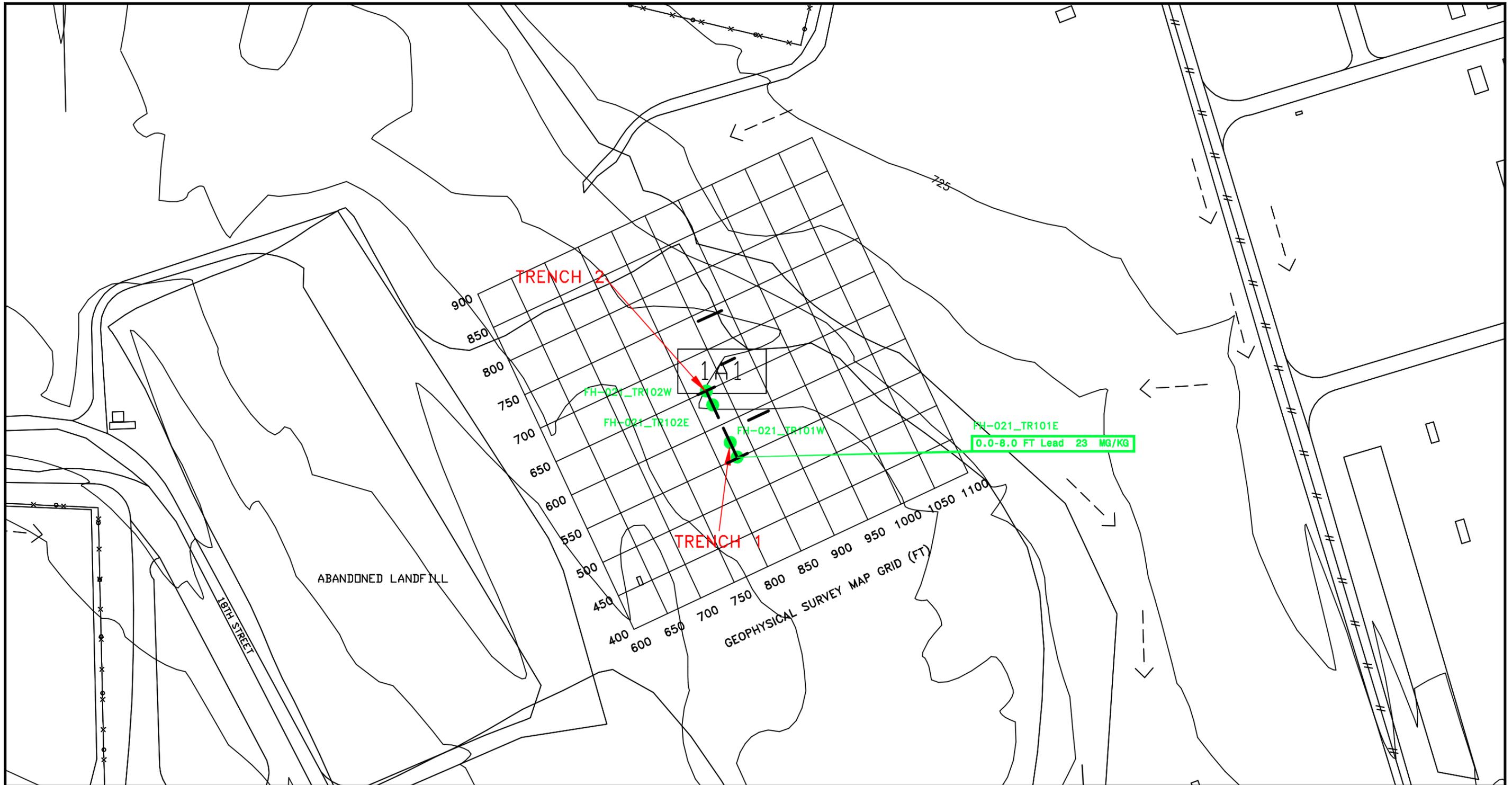
RCRA FACILITY INVESTIGATION

GEOPHYSICAL SURVEY MAP

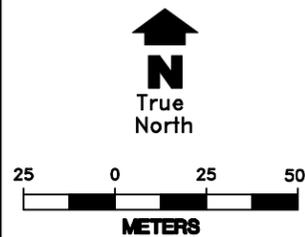
SAIC Science Applications International Corporation Columbus, Ohio

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FH-021
**NORTH FT.
 HOOD
 LOCATION
 MAP**



LEGEND

- TOPOGRAPHIC CONTOUR (FT.)
- FENCE
- SOIL BORING
- Arsenic 13.3 MG/KG MARCH 1997 SAMPLING

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RCRA FACILITY INVESTIGATION
FH-021 Sample Locations and
Results Above Screening Criteria



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SCALE
 AS SHOWN

FIGURE NO.
 4.2

using a stainless steel spoon. It was not possible to segregate soils by depth intervals because of persistent caving and sloughing from the trench walls of saturated soils and refuse. Therefore, trench samples are regarded as composite samples representative of the 0-8 ft. depth interval. Soils collected from the trenches were in direct contact with wastes in the trenches. Therefore, the samples are more indicative of the waste source than a release from the site. The samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. Although the primary contaminant of concern at FH-021 is lead, samples were analyzed for VOCs and SVOCs because of the proximity of the site to FH-002, -013, -014 and -015. All soil sampling, sample handling, chain-of-custody, and other field activities were conducted in accordance with the RCRA Facility Investigation Work Plan for 35 SWMUs (USACE 1995).

4.1.3 Leachate Sampling

Water was present in both trenches at approximately 3 ft BGS. A grab sample was collected from Trench Number 1 (FHGW164) and Trench Number 2 East (FHGW165) and analyzed in accordance with the RCRA Facility Investigation Work Plan for 35 SWMUs (USACE 1995). Due to the presence of waste material unearthed during trenching, the water was more characteristic of leachate material than groundwater.

4.2 UNIT INVESTIGATION AND ANALYTICAL RESULTS

A summary of the analytical results for soils and water samples at FH-021 and their respective analytical method and practical quantitation limit (PQL) are provided in their entirety in Appendix B. Tables 4.1 and 4.2 summarize those constituents detected above PQLs in soils and leachate, respectively. Constituents detected in soils above detection limits were screened against background and risk-based screening criteria as described in Section 4.3 and Section 5.0. Figure 4.2 describes the soil sampling locations of the constituents detected above background or other screening criteria.

4.2.1 Soil Analytical Results

Inorganics including arsenic, barium, cadmium, chromium, and lead were all detected in soils collected at depths ranging from 0 to 8 ft at concentrations above PQLs (Table 4.1). Lead was detected in sample TR101E at a concentration of 23.0 ppm that is above the 95% UTL background concentration of 19.0 ppm. Cadmium, arsenic, barium, and chromium were not detected in any sample at concentrations above their corresponding 95% UTL background concentration.

Acetone (8 ppb) and trichloroethene (16 ppb) were detected at TR101W; acetone (7 ppb) and trichloroethene (8 ppb) were also detected at TR102E. Naphthalene was detected at TR102W at 10 ppb. Complete sample results and their respective PQL values are presented in their entirety in Appendix B.

4.2.2 Leachate Results

Analytes detected above PQLs are summarized in Table 4.2. Arsenic and barium were detected above PQLs in both water samples. Selenium was detected at TR101E at 8.2 J ppb. Lead and naphthalene were

Table 4.1 FH-021 Analytes Detected Above Practical Quantitation Limits (PQLs) in Soils

Location	Sample ID	Depth (Ft)	Analysis Type	Parameter	Result	PQL	Units
TR101E	21TR101	0.0-8.0	Metals	Arsenic	3.2	0.4	mg/kg
TR101E	21TR101	0.0-8.0	Metals	Barium	81.5	0.08	mg/kg
TR101E	21TR101	0.0-8.0	Metals	Cadmium	0.62	0.06	mg/kg
TR101E	21TR101	0.0-8.0	Metals	Chromium	12.3	0.09	mg/kg
TR101E	21TR101	0.0-8.0	Metals	Lead	23	0.23	mg/kg
TR101W	21TR104	0.0-8.0	Metals	Arsenic	3.3	0.36	mg/kg
TR101W	21TR104	0.0-8.0	Metals	Barium	58.9	0.07	mg/kg
TR101W	21TR104	0.0-8.0	Metals	Cadmium	0.21	0.06	mg/kg
TR101W	21TR104	0.0-8.0	Metals	Chromium	8.9	0.08	mg/kg
TR101W	21TR104	0.0-8.0	Metals	Lead	7.2	0.21	mg/kg
TR101W	21TR104	0.0-8.0	Volatile Organics	Acetone	8	6	ug/kg
TR101W	21TR104	0.0-8.0	Volatile Organics	Trichloroethene	16	6	ug/kg
TR102E	21TR103	0.0-8.0	Metals	Arsenic	5.5	0.39	mg/kg
TR102E	21TR103	0.0-8.0	Metals	Barium	58.3	0.08	mg/kg
TR102E	21TR103	0.0-8.0	Metals	Cadmium	0.29	0.06	mg/kg
TR102E	21TR103	0.0-8.0	Metals	Chromium	10.5	0.09	mg/kg
TR102E	21TR103	0.0-8.0	Metals	Lead	11.9	0.23	mg/kg
TR102E	21TR103	0.0-8.0	Volatile Organics	Acetone	7	6	ug/kg
TR102E	21TR103	0.0-8.0	Volatile Organics	Trichloroethene	8	6	ug/kg
TR102W	21TR102	0.0-8.0	Metals	Arsenic	2.9	0.39	mg/kg
TR102W	21TR102	0.0-8.0	Metals	Barium	64.2	0.08	mg/kg
TR102W	21TR102	0.0-8.0	Metals	Cadmium	0.11	0.06	mg/kg
TR102W	21TR102	0.0-8.0	Metals	Chromium	12.3	0.09	mg/kg
TR102W	21TR102	0.0-8.0	Metals	Lead	10.6	0.23	mg/kg
TR102W	21TR102	0.0-8.0	Volatile Organics	Naphthalene	10	6	ug/kg

**Table 4.2 FH-021 Analytes Detected Above
Practical Quantitation Limits (PQLs) in Leachate**

Location	Sample ID	Analysis Type	Parameter	Result	PQL	Units
TR101E	FHGW164	Metals	Arsenic	4.8	2.1	Fg/l
TR101E	FHGW164	Metals	Barium	314	0.3	Fg/l
TR101E	FHGW164	Metals	Selenium	8.2 J	2.2	Fg/l
TR102W	FHGW165	Metals	Lead	3.5	0.9	Fg/l
TR102W	FHGW165	Metals	Arsenic	3.8	2.1	Fg/l
TR102W	FHGW165	Metals	Barium	232	0.3	Fg/l
TR102W	FHGW165	Volatile Organics	Naphthalene	19	5	Fg/l

J - Estimated value due to either laboratory and/or data validation qualification. The qualifier is applied to the result due to deviation(s) from laboratory or from data validation quality control criteria (i.e., calibration, surrogate recoveries, matrix spike/matrix spike duplicates, etc).

also detected above PQLs at TR102W at 3.5 ppb and 19 ppb respectively. Complete analytical results for leachate samples are presented in Appendix B.

4.2.3 Disposition of Investigation Derived Waste (IDW)

All IDW generated during trenching at FH-021 was stored in 55 gallon drums. No drums of soil cuttings were generated during the trenching investigation at FH-021. All IDW drums of liquid were clearly identified with Department of Transportation (DOT) approved labels, indicating the drum's contents, the date filled, and the SWMU where the IDW was generated. Drums were staged in the SAIC compound at North Fort Hood and then moved to the SAIC compound on the main cantonment pending disposition. Drums containing liquid waste were staged inside secondary containment areas.

Analytical results from the corresponding soil samples were used to determine whether a drum's contents were non-hazardous or potentially hazardous. Contaminant levels were screened against the Resource Conservation and Recovery Act (RCRA) "20 times" rule for the Toxicity Characteristic Leaching Procedure (TCLP). The contaminant levels for samples taken at FH-021 were lower than the "20 times" rule.

Drums of liquid IDW generated from the decontamination of equipment used at the trenching at FH-021 were disposed of in the 1st Calvary Division Tactical Vehicle Wash Facility. The drums containing the non-hazardous liquid were expected to contain a significant amount of sediment. For this reason, disposal at the 1st Calvary Division Tactical Vehicle Wash Facility was determined to be more appropriate than discharging the liquid to the sanitary sewer system. The Vehicle Wash Facility is a closed loop system consisting of three ponds used to settle out the dirt and sediment washed off the armored vehicles.

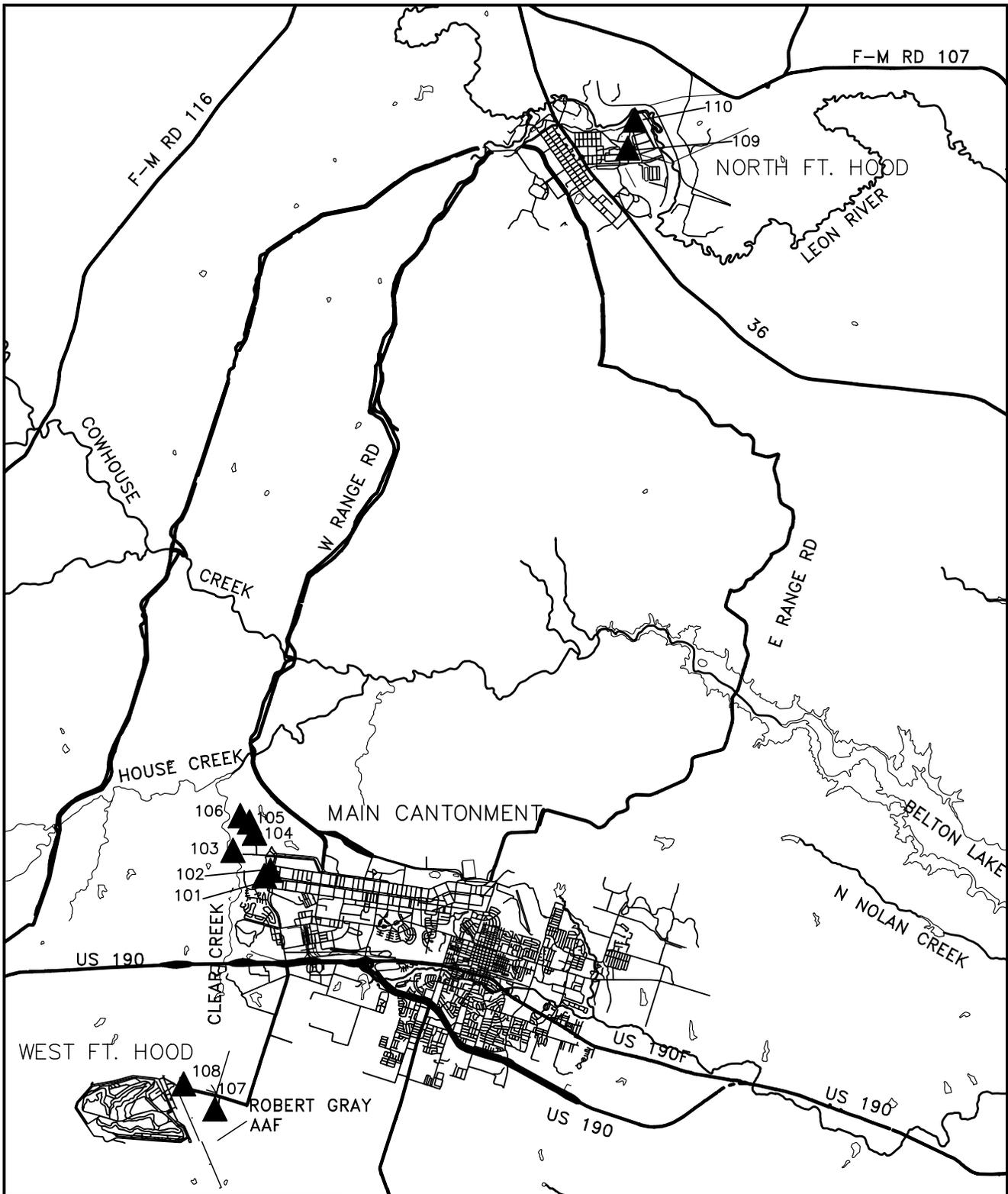
4.3 BACKGROUND CHARACTERIZATION AND COMPARISONS WITH WASTE UNIT SAMPLING RESULTS

In order to characterize naturally occurring constituents in soils at Fort Hood, samples were located and collected at 10 separate locations within the facility boundaries in the north, west, and main cantonments. Sampling locations are outside the influence of past or current industrial and/or waste activities at the facility. The general background sampling locations are presented in Figure 4.3. Soil boring logs and analytical results for background soils are presented in Appendices C and D, respectively.

Samples were analyzed for the following metals: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. No quality assurance/quality control (QA/QC) problems were encountered with the background data set for arsenic, barium, cadmium, chromium, and lead. There were only 40 valid background sample results for selenium due to QA/QC problems with the selenium data. A discussion of the data QA/QC is presented in Section 6.1. Mercury was detected in only 1 of 43 subsurface soil samples and selenium in 2 of 40 background subsurface samples. Silver was not detected in any background soil samples.

Two statistical methods presented in the RFI Work Plan can be used to determine if there is a statistically significant difference between background soil concentrations and the concentrations of metals detected in SWMU samples. Background statistical calculations were determined by combining metal results from surface soils (0-2 ft) and subsurface soils (>2 ft). See Appendix E for Statistical Calculations. The statistical methods used to evaluate the background soil results are presented in Section 6 of the Final RCRA Facility Investigation Work Plan (USACE 1995). The methods include a 95% upper tolerance limit (UTL) calculation and an overall

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LEGEND

-  MAJOR ROADS
-  RIVERS/STREAMS
-  WATER BODIES
-  BACKGROUND SOIL SAMPLE LOCATION

U.S. ARMY
FORT HOOD, TEXAS
RCRA FACILITY INVESTIGATION



**LOCATIONS OF
BACKGROUND SOIL SAMPLES**



Science Applications International Corporation Columbus, Ohio

DRAWN SC	CHECKED	DATE	SCALE 1"=5000M	PROJECT NO.	FIGURE NO. 4.2
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Background Soils

Analyte (units)	Mean	95% UTL	Maximum Detect	Results > PQL	Distribution
Arsenic (mg/kg)	4.3500	9.19	11.6	43/43	N
Barium (mg/kg)	30.19	157.3	155.0	43/43	L
Cadmium (mg/kg)	0.15	0.67	0.79	36/44	L
Chromium (mg/kg)	7.32	24.88	23.6	44/44	L
Lead (mg/kg)	5.77	19.0	33.20	44/44	L
Mercury (mg/kg)	0.0400	0.04*	0.04	1/44	D
Selenium (mg/kg)	0.345	0.44*	0.44	2/40	D
Silver (mg/kg)	0.218	**	ND	0/44	D

Results less than the detection limit were set to ½ the reported detection limit.

L-distribution most similar to lognormal.

N-distribution most similar to normal.

D-distribution not determined because fewer than five detects or less than 50% detects.

*UTL -maximum detected

** The 95% UTL could not be calculated due to no detects in the background data set, therefore, the PQL is used as the background comparison value.

ND - Not Detected

data set mean background concentration. The 95% UTL is an estimate of the 95th percentile of the population of background concentrations. The UTL is a value such that, with a high degree of confidence, 95% of all concentrations would be less than the UTL value. Results of the 95% UTL calculation are presented in Table 4.3. For inorganic parameters where the distribution was neither normal nor lognormal and where there were less than 50% detects, the maximum concentration detected was used in place of the 95% UTL. For inorganic parameters where there were no detects in the background samples the PQLs were used in place of the 95% UTLs as the background comparison value. The 95% UTL background value for soils was used as the primary background screening criteria for inorganics.

The second statistical method determines the mean concentration for each metal detected in background samples and compares it against the mean concentrations determined for SWMU analytes. At FH-021 all inorganic sample results were less than 95 % UTL, therefore, the mean comparison statistics were not needed. The flow chart from the Final RCRA Facility Investigation Work Plan for 35 SWMUs (USACE 1995) used for the statistical evaluations is provided in Appendix E. Additionally, Appendix E contains spreadsheets of the Shapiro Wilk test on the background data for distribution, and results of the 95% UTL calculations for the background data. The values from the statistical calculations were used in the screening procedures and are included in Table 4.3.

5.0 SOIL SCREENING RESULTS

The Texas Natural Resource Conservation Commission (TNRCC) has promulgated risk reduction standards (30 TAC 335, Subchapter S) for soils and groundwater for residential and industrial land uses. Risk Reduction Standards (RRSs) Number 1 are defined as background concentrations or analytical practical quantitation limit (PQL) values whichever are greater. The TNRCC RRSs Number 1 were used to determine the presence of contamination in soils at the site. In order to evaluate the constituents detected in soils at FH-021, soil sample results were compared to the 95% UTL background concentration levels. Background soil levels were determined for 8 metals and the results are presented in Section 4.3. Metals detected above background levels are considered a potential release from the unit. Organic constituents detected above the analytical PQL are considered as a potential release. As noted in Section 4.0, soil samples were collected directly from the trenches where evidence of landfilling was observed. Samples were in direct contact with wastes and therefore are more indicative of the waste source than a release from the site. Results of the background soil screening analysis is presented in their entirety in Appendix F. Table 5.1 lists the FH-021 sample results above screening criteria.

Only lead was detected in soils above the corresponding 95% UTL background concentration. Lead was detected in one sample TR101E at a concentration of 23 ppm that is above the background concentration of 19.0 ppm. This lead value is slightly above the 95% background UTL but below the maximum detected concentration for lead (33.2 ppm) found during the background investigation. Additionally, the organic compounds acetone, naphthalene, and trichloroethene were detected in samples above PQLs. The concentrations of these three organic compounds were low. Acetone is a common laboratory contaminant and the concentrations detected in the FH-021 soil samples were 8 ppb and 7 ppb which are slightly above the laboratory PQL of 6 ppb. Naphthalene, normally detected in the SVOC analyses was detected in the VOC analyses of one soil sample and one leachate sample at concentrations of 10 ppb and 19 ppb, respectively. Because naphthalene was not detected above PQLs in the SVOC analyses and found only in low concentrations above the VOC PQLs indicates that the naphthalene results represent data anomalies that were not verified by the primary analytical method—SVOC analyses. Lastly, trichloroethene was detected in two soil samples at concentrations of 16 ppb and 8 ppb, that are less than four times the laboratory PQL of 5 ppb. The low concentration of lead and the organic compound detections are not indicative of disposal of lead battery activities and do not substantiate that a release has occurred at FH-021.

Constituents detected above background or PQL values were further screened against TNRCC RRSs Number 2. The TNRCC RRS Number 2 for soils are numerical values established by the TNRCC as protective of human health and the environment. Soil RRSs Number 2 are based on ingestion of soil and inhalation of particulates and volatiles or a soil-to-groundwater cross-media protection concentration, whichever is lower. If the PQL and/or background concentration for a contaminant is greater than the risk-based value(s), the greater of the PQL or background is used as the RRSs Number 2. The background concentration for lead at the Fort Hood Installation is lower than the TNRCC risk-based value. Therefore, the TNRCC RRS Number 2 value for lead was used for further screening. Naphthalene, acetone, and trichloroethene were all present in soil samples at values below the TNRCC RRSs Number 2.

Table 5.1 FH-021 Analytes Detected Above Screening Criteria in Soils

Station	Sample ID	Analyte	Result	Units	Criterion	Screening Value	Units
TR101E	21TR101	Lead	23	mg/kg	Soil Background	19.0	mg/kg

6.0 INVESTIGATION ANALYSIS

6.1 DATA QUALITY ASSURANCE/QUALITY CONTROL

The Fort Hood RFI Work Plan, the contract laboratory's Quality Assurance Plan, and USEPA SW-846 or other approved procedures for analytical chemistry and physical testing methods were followed for field and laboratory quality assurance/quality control (QA/QC) of FH-021 samples. Field QC samples included; trip blanks, rinsate blanks, field duplicates, and split samples. All QA and QC samples were collected as replicate samples of the same field sample. The QA and QC samples were collected at a frequency of 10 percent and analyzed along with the associated environmental samples. Laboratory QC procedures as prescribed by each analytical method were followed by the contract laboratory and included, where applicable: gas chromatography/mass spectrometry (GC/MS) tuning, initial and continuing calibrations, method/extraction blanks, laboratory control samples (LCS), surrogate spikes, internal and external standards, duplicates, matrix spikes/matrix spike duplicates (MS/MSDs), inductively coupled plasma (ICP) and atomic absorption (AA) related QC procedures/samples and spiked sample clean-up results.

Quality control analyses were conducted by the contract laboratory as an internal control measure of the accuracy and precision of the data. Quality assurance sample analyses were performed by the Army Corps of Engineers' Southwest District Laboratory as an external control measure of the accuracy and precision of the contract laboratory's results and of sampling procedures. The QA/QC, and corresponding field sample results are reviewed by Army Corps of Engineers quality assurance personnel, who then issues a Chemical Quality Assurance Report (CQAR).

The CQAR presented findings that indicated there was a potential for:

- C variability for acetone in sample TR101;
- C false negatives for 1,2,4-trichlorobenze and 1,2,3 trichlorobenzene in TR101 and TR102;
- C possible false positives for chromium in all four samples;
- C low bias for selenium in TR103 and TR104;
- C false positives for methylene chloride (water TR101); and
- C false positive for lead (water TR102).

These CQAR findings indicate that caution needs to be applied when interpreting the results due to the above analytical deviations. Based on these findings, no data would be rejected and all data is useable. The only impact that these CQAR findings would have on the data set is that the above samples would be qualified as estimated detects (J) or estimated non-detects (UJ) if data validation was conducted on those samples. The split QA/QC sample analyses by the Corp's laboratory indicated disagreement in the arsenic, cadmium, and lead results with the primary sample results. This does not impact the useability of the data because the QC sample agreed with the primary sample according to the following guidelines for replication.

It should be noted that replication of a concentration of a constituent in soil samples is difficult due to the heterogeneity of soils. Analyses are considered good and reproducible for soil samples if the highest concentration reported in a set of samples for a single field sample is less than five times the lowest concentration reported in the same set of samples. This holds true as long as all other quality control measures and data quality objectives (e.g. holding times, surrogate recoveries, internal standards, etc) are met. A review of the data results for TR101 and QC split sample FHSB238 indicate that the replicate soil sample

results for FH-021 are considered good and reproducible for this site based on the criteria cited above.

Data QA/QC procedures also included an independent data validation of 10 percent of the results for compliance of analyses to data quality objectives. All results for FH-021 data that were reviewed as a function of the data validation task met project data quality objectives, and are usable data with the exception of the selenium results for 10 background soil samples. The selenium results were rejected due to unacceptable matrix spike recoveries and were therefore excluded from background calculations. The rejected background data had no impact on the FH-021 results. No other problems with the data were encountered that would have resulted in rejection of the data. Acetone was detected in an equipment rinseate sample (ER068) that resulted in qualifying associated samples as non-detects based on the action level established from the acetone concentration in the equipment rinseate sample. A copy of the laboratory results and the associated quality control samples are included in Appendix B.

6.2 INVESTIGATIVE RESULTS

The data set for soils at FH-021 and the quality of the data are useable for the objectives of the RFI as described in Section 4.0 of this report. Four trenches were excavated in the suspected burial site and subsurface soils were sampled in order to identify the lead-acid batteries reportedly buried at the site. The trench locations were selected at the approximate locations of the three most prominent conductivity anomalies observed during the geophysical survey and they also coincided with the positions of two prominent surface depressions indicative of trench landfilling. Small test pits were also excavated to delineate the extreme northern limit of waste placement. Trenching results did not reveal the presence of lead-acid batteries; however landfill materials were visibly present in both trenches below the water table. Because no contaminants found are associated with the FH-021 landfill activities, there is no potential for migration of contaminants from FH-021. The most common debris excavated at FH-021 was municipal refuse and demolition debris.

A total of four soil samples were collected from the trenches and analyzed according to the Final RCRA Facility Investigation Work Plan for 35 SWMUs (USACE 1995). Since the battery burial site was not located during trenching activities, soil sampling did not provide information regarding the vertical and lateral extent of potential contamination or the boundaries of the suspected disposal area. Visual observation and results of the soil analysis indicate that the site was used for municipal solid waste disposal and may represent past landfilling associated with SWMU's FH-002, FH-013, FH-014, and FH-015.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The physical, visual, and analytical results for FH-021 do not provide any evidence that the site was used for disposal of lead acid batteries. Depressions identified along the ground surface of the site are similar to the surface conditions associated with the surrounding landfill activities and are not specific to a single trench used for the disposal of lead acid batteries. Trenching conducted at the site identified typical municipal waste material and analytical results from soils collected from the trenches do not indicate that there is waste associated from the disposal of lead batteries. Because no contaminants found are associated with the FH-021 landfill activities (disposal of lead batteries), there is no potential for migration of contaminants from FH-021. Both the soil and the water samples indicate that constituents present may be associated with the surrounding SWMU's FH-002, FH-013, FH-014, and FH-015. Therefore, it is recommended that the results from this investigation be used to support the RFI investigations of the surrounding landfills. Based on the information presented in this RFI report, the investigation of FH-021 did not indicate that the disposal of lead batteries had occurred in this SWMU and no further action is needed at FH-021.

8.0 REFERENCES

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- EPA 1989. Guidance Document on the Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, (EPA/530-SW-89-026).
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- U.S. Army. 1996a. Fort Hood 1996 Public Affairs Document. 72p.
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- U.S. Army. 1992 "History of Fort Hood: The First Fifty Years 1942-1992." III Mobile Army Corps, 7p. (leaflet).
- USACE. 1995. Final RCRA Facility Investigation Work Plan. 35 Solid Waste Management Units, Fort Hood, Texas. December 1995.
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- USEPA, SW-846. Test Methods for Evaluating Solid Waste. Physical/Chemical. Second Edition, Rev. 0, September, 1986, and Third Edition, Rev. 1, November 1990.
- USEPA, 1989. Guidance Document on the Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, EPA/530-SW-89-026.

APPENDIX A

FH-021 Trenching Logs



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Trench FH021-TR101

(Page 1 of 1)

SWMU FH021 : Vehicle Battery Burial Site
Start Date : 03/19/97
End Date : 03/19/97
Northing Coord. : Not
Easting Coord. : Surveyed
Total Depth of Trench : 8.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Kamatsu
Type of Drill Rig : Trackhoe
Geologist : Jeff DeVaughn
Depth to Bedrock : Not Encountered
Depth Drilled Into Rock: NA
Trench Width : 3.0 feet
Sampling Equipment : Trackhoe Bucket
: SS Bowl and Spoons

Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	0					
1	-1					
2	-2	CL			Silty CLAY; limestone fragments and several pieces 3-4' diameter; damp to dry; 2.5Y7/3 pale yellow.	
3	-3					
4	-4					
5	-5			▼	WASTE MATERIAL, wood, bottles, wire, cans, etc. Water in trench at 5'. No batteries found.	Sample 21TR101 collected 4.0-8.0' bgs from north end of trench. Split sample and duplicate sample collected. Groundwater sample FHGW164 collected.
6	-6	FL				
7	-7					
8	-8				Bottom of Trench @ 8.0' bgs. Limestone layer.	Trench backfilled with removed material.
9	-9					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
10						



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Fort Worth District
Fort Worth, Texas

Trench FH021-TR101W

(Page 1 of 1)

SWMU FH021 : Vehicle Battery Burial Site
Start Date : 03/20/97
End Date : 03/20/97
Northing Coord. : Not
Easting Coord. : Surveyed
Total Depth of Trench : 8.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Kamatsu
Type of Drill Rig : Trackhoe
Geologist : Jeff DeVaughn
Depth to Bedrock : Not Encountered
Depth Drilled Into Rock: NA
Trench Width : 3.0 feet
Sampling Equipment : Trackhoe Bucket
: SS Bowl and Spoons

Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	0				Silty CLAY; limestone fragments; damp to dry; 2.5Y7/3 pale yellow.	Trench dug east to west from south end of TR101.
1	-1					
2	-2	CL				
3	-3					
4	-4				WASTE MATERIAL, cans, bottles, wires, cables, etc. Also a few empty oil cans. No batteries found. Water in trench at 5'.	
5	-5					Sample 21TR104 collected 4.0-8.0' bgs from trench.
6	-6	FL				
7	-7					
8	-8				Bottom of Trench @ 8.0' bgs. Limestone layer.	Trench backfilled with removed material.
9	-9					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
10						



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Trench FH021-TR102

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SWMU FH021 : Vehicle Battery Burial Site
Start Date : 03/19/97
End Date : 03/19/97
Northing Coord. : Not
Easting Coord. : Surveyed
Total Depth of Trench : 7.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Kamastu
Type of Drill Rig : Trackhoe
Geologist : Jeff DeVaughn
Depth to Bedrock : Not Encountered
Depth Drilled Into Rock: NA
Trench Width : 3.0 feet
Sampling Equipment : Trackhoe Bucket
: SS Bowl and Spoons

Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	0				Silty CLAY; limestone fragments; damp to dry; 2.5Y7/3 pale yellow.	
1	-1	CL				
2	-2				WASTE MATERIAL, abundant railroad ties, cans, bottles, wire. No batteries found. Water in trench below 3'.	
3	-3			▼		
4	-4	FL				
5	-5					Sample 21TR102 collected 2.0-7.0' bgs from center of the trench.
6	-6					
7	-7				Bottom of Trench @ 7.0' bgs. Limestone layer.	
8	-8					Trench backfilled with removed material.
9	-9					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
10						



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Trench FH021-TR102E

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SWMU FH021 : Vehicle Battery Burial Site
Start Date : 03/20/97
End Date : 03/20/97
Northing Coord. : Not
Easting Coord. : Surveyed
Total Depth of Trench : 7.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Kamastu
Type of Drill Rig : Trackhoe
Geologist : Jeff DeVaughn
Depth to Bedrock : Not Encountered
Depth Drilled Into Rock: NA
Trench Width : 3.0 feet
Sampling Equipment : Trackhoe Bucket
: SS Bowl and Spoons

Depth in feet	Surf. Elev.	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	0				Silty CLAY; limestone fragments/cobbles; damp to dry; 2.5Y7/3 pale yellow.	
1	-1	CL				
2	-2			▼	Water flowing into trench at 2'.	
3	-3				WASTE MATERIAL, railroad ties, bottles, cans, glass, large oil cans (empty), metal locker doors, wire, etc. No batteries found. Oil sheen noted on some timbers.	
4	-4					
5	-5	FL				Sample 21TR103 collected from east end of trench. Groundwater sample FHGW165 collected.
6	-6					
7	-7				Bottom of Trench @ 7.0' bgs. Limestone layer.	
8	-8					Trench backfilled with removed material.
9	-9					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
10						

APPENDIX B

FH-021 Analytical Results

FH-021 Analytical Results

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7440-38-2	Arsenic	3.2	0.40	mg/kg			SW846 6010
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7440-39-3	Barium	81.5	0.08	mg/kg			SW846 6010
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7440-43-9	Cadmium	0.62	0.06	mg/kg	B		SW846 6010
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7440-47-3	Chromium	12.3	0.09	mg/kg			SW846 6010
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7439-92-1	Lead	23	0.23	mg/kg			SW846 6010
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7439-97-6	Mercury	0.04	0.04	mg/kg	U	U	SW846 6010
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7782-49-2	Selenium	1.4	1.4	mg/kg	UWN	UJ	SW846 6010
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7440-22-4	Silver	0.22	0.22	mg/kg	U	U	SW846 6010
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-94-3	1,2,4,5-Tetrachlorobenzene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	120-82-1	1,2,4-Trichlorobenzene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-50-1	1,2-Dichlorobenzene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	541-73-1	1,3-Dichlorobenzene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	106-46-7	1,4-Dichlorobenzene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	108-60-1	2,2'-oxybis(1-chloropropane)	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-95-4	2,4,5-Trichlorophenol	2100	2100	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	88-06-2	2,4,6-Trichlorophenol	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	120-83-2	2,4-Dichlorophenol	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	105-67-9	2,4-Dimethylphenol	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	51-28-5	2,4-Dinitrophenol	2100	2100	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	121-14-2	2,4-Dinitrotoluene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	606-20-2	2,6-Dinitrotoluene	430	430	ug/kg	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	91-58-7	2-Chloronaphthalene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-57-8	2-Chlorophenol	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	91-57-6	2-Methylnaphthalene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-48-7	2-Methylphenol	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	88-74-4	2-Nitroaniline	2100	2100	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	88-75-5	2-Nitrophenol	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	91-94-1	3,3'-Dichlorobenzidine	860	860	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	99-09-2	3-Nitroaniline	2100	2100	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	534-52-1	4,6-Dinitro-o-Cresol	2100	2100	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	101-55-3	4-Bromophenyl-phenyl Ether	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	106-47-8	4-Chloroaniline	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7005-72-3	4-Chlorophenyl-phenylether	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	106-44-5	4-Methylphenol	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	100-01-6	4-Nitroaniline	2100	2100	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	100-02-7	4-Nitrophenol	2100	2100	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	59-50-7	4-chloro-3-methylphenol	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	83-32-9	Acenaphthene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	208-96-8	Acenaphthylene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	120-12-7	Anthracene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	56-55-3	Benzo(a)anthracene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	50-32-8	Benzo(a)pyrene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	205-99-2	Benzo(b)fluoranthene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	191-24-2	Benzo(g,h,i)perylene	430	430	ug/kg	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	207-08-9	Benzo(k)fluoranthene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	65-85-0	Benzoic Acid	2100	2100	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	100-51-6	Benzyl Alcohol	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	111-91-1	Bis(2-chloroethoxy)methane	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	111-44-4	Bis(2-chloroethyl)ether	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	117-81-7	Bis(2-ethylhexyl)phthalate	45	430	ug/kg	J	J	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	85-68-7	Butyl Benzyl Phthalate	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	218-01-9	Chrysene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	84-74-2	Di-n-butyl Phthalate	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	117-84-0	Di-n-octyl Phthalate	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	53-70-3	Dibenz(a,h)anthracene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	132-64-9	Dibenzofuran	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	84-66-2	Diethyl Phthalate	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	131-11-3	Dimethyl Phthalate	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	206-44-0	Fluoranthene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	86-73-7	Fluorene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	118-74-1	Hexachlorobenzene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	87-68-3	Hexachlorobutadiene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	77-47-4	Hexachlorocyclopentadiene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	67-72-1	Hexachloroethane	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	193-39-5	Indeno(1,2,3-cd)pyrene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	78-59-1	Isophorone	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	621-64-7	N-Nitroso-di-n-propylamine	430	430	ug/kg	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	86-30-6	N-Nitrosodiphenylamine	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	91-20-3	Naphthalene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	98-95-3	Nitrobenzene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	87-86-5	Pentachlorophenol	2100	2100	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	85-01-8	Phenanthrene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	108-95-2	Phenol	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	129-00-0	Pyrene	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	110-86-1	Pyridine	430	430	ug/kg	U	U	SW846 8270
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	630-20-6	1,1,1,2-Tetrachloroethane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	71-55-6	1,1,1-Trichloroethane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	79-34-5	1,1,2,2-Tetrachloroethane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	79-00-5	1,1,2-Trichloroethane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-34-3	1,1-Dichloroethane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-35-4	1,1-Dichloroethene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	563-58-6	1,1-Dichloropropene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	87-61-6	1,2,3-Trichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	96-18-4	1,2,3-Trichloropropane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	120-82-1	1,2,4-Trichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-63-6	1,2,4-trimethylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	106-93-4	1,2-Dibromoethane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-50-1	1,2-Dichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	107-06-2	1,2-Dichloroethane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	78-87-5	1,2-Dichloropropane	6	6	ug/kg	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	156-59-2	1,2-cis-Dichloroethene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	96-12-8	1,2-dibromo-3-chloropropane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	156-60-5	1,2-trans-Dichloroethene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	108-67-8	1,3,5-trimethylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	541-73-1	1,3-Dichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	142-28-9	1,3-Dichloropropane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	106-46-7	1,4-Dichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	594-20-7	2,2-Dichloropropane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	78-93-3	2-Butanone	5	6	ug/kg	J	J	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-49-8	2-Chlorotoluene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	591-78-6	2-Hexanone	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	106-43-4	4-Chlorotoluene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	108-10-1	4-Methyl-2-pentanone	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	67-64-1	Acetone	59	6	ug/kg		U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	71-43-2	Benzene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	108-86-1	Bromobenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	74-97-5	Bromochloromethane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-27-4	Bromodichloromethane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-25-2	Bromoform	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	74-83-9	Bromomethane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	56-23-5	Carbon Tetrachloride	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	108-90-7	Chlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-00-3	Chloroethane	6	6	ug/kg	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	67-66-3	Chloroform	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	74-87-3	Chloromethane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	124-48-1	Dibromochloromethane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	74-95-3	Dibromomethane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-71-8	Dichlorodifluoromethane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	100-41-4	Ethylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	87-68-3	Hexachlorobutadiene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	98-82-8	Isopropyl Benzene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-09-2	Methylene Chloride	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	91-20-3	Naphthalene	3	6	ug/kg	J	J	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	100-42-5	Styrene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	127-18-4	Tetrachloroethene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	108-88-3	Toluene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	79-01-6	Trichloroethene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-69-4	Trichlorofluoromethane	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-01-4	Vinyl Chloride	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	13-302-07	m,p-Xylene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	104-51-8	n-Butylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	103-65-1	n-propylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-47-6	o-Xylene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	99-87-6	p-Isopropyltoluene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	135-98-8	sec-Butylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	21TR101	FH021-TR101/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	98-06-6	tert-Butylbenzene	6	6	ug/kg	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	7440-38-2	Arsenic	4.8	2.1	ug/l	B		SW846 6010
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	7440-39-3	Barium	314	0.30	ug/l			SW846 6010
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	7440-43-9	Cadmium	0.3	0.30	ug/l	U	U	SW846 6010
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	7440-47-3	Chromium	1	1.0	ug/l	U	U	SW846 6010
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	7439-92-1	Lead	0.9	0.90	ug/l	U	U	SW846 6010
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	7439-97-6	Mercury	0.1	0.10	ug/l	U	U	SW846 6010
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	7782-49-2	Selenium	8.2	2.2	ug/l	S	J	SW846 6010
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	7440-22-4	Silver	1	1.0	ug/l	U	U	SW846 6010
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	95-94-3	1,2,4,5-Tetrachlorobenzene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	120-82-1	1,2,4-Trichlorobenzene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	95-50-1	1,2-Dichlorobenzene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	541-73-1	1,3-Dichlorobenzene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	106-46-7	1,4-Dichlorobenzene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	108-60-1	2,2'-oxybis(1-chloropropane)	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	95-95-4	2,4,5-Trichlorophenol	50	50	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	88-06-2	2,4,6-Trichlorophenol	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	120-83-2	2,4-Dichlorophenol	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	105-67-9	2,4-Dimethylphenol	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	51-28-5	2,4-Dinitrophenol	50	50	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	121-14-2	2,4-Dinitrotoluene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	606-20-2	2,6-Dinitrotoluene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	91-58-7	2-Chloronaphthalene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	95-57-8	2-Chlorophenol	10	10	ug/l	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	91-57-6	2-Methylnaphthalene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	95-48-7	2-Methylphenol	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	88-74-4	2-Nitroaniline	50	50	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	88-75-5	2-Nitrophenol	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	91-94-1	3,3'-Dichlorobenzidine	20	20	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	99-09-2	3-Nitroaniline	50	50	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	534-52-1	4,6-Dinitro-o-Cresol	50	50	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	101-55-3	4-Bromophenyl-phenyl Ether	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	106-47-8	4-Chloroaniline	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	7005-72-3	4-Chlorophenyl-phenylether	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	106-44-5	4-Methylphenol	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	100-01-6	4-Nitroaniline	50	50	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	100-02-7	4-Nitrophenol	50	50	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	59-50-7	4-chloro-3-methylphenol	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	83-32-9	Acenaphthene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	208-96-8	Acenaphthylene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	120-12-7	Anthracene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	56-55-3	Benzo(a)anthracene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	50-32-8	Benzo(a)pyrene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	205-99-2	Benzo(b)fluoranthene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	191-24-2	Benzo(g,h,i)perylene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	207-08-9	Benzo(k)fluoranthene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	65-85-0	Benzoic Acid	50	50	ug/l	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	100-51-6	Benzyl Alcohol	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	111-91-1	Bis(2-chloroethoxy)methane	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	111-44-4	Bis(2-chloroethyl)ether	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	117-81-7	Bis(2-ethylhexyl)phthalate	4	10	ug/l	J	J	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	85-68-7	Butyl Benzyl Phthalate	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	218-01-9	Chrysene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	84-74-2	Di-n-butyl Phthalate	2	10	ug/l	J	J	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	117-84-0	Di-n-octyl Phthalate	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	53-70-3	Dibenz(a,h)anthracene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	132-64-9	Dibenzofuran	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	84-66-2	Diethyl Phthalate	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	131-11-3	Dimethyl Phthalate	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	206-44-0	Fluoranthene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	86-73-7	Fluorene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	118-74-1	Hexachlorobenzene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	87-68-3	Hexachlorobutadiene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	77-47-4	Hexachlorocyclopentadiene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	67-72-1	Hexachloroethane	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	193-39-5	Indeno(1,2,3-cd)pyrene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	78-59-1	Isophorone	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	621-64-7	N-Nitroso-di-n-propylamine	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	86-30-6	N-Nitrosodiphenylamine	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	91-20-3	Naphthalene	10	10	ug/l	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	98-95-3	Nitrobenzene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	87-86-5	Pentachlorophenol	50	50	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	85-01-8	Phenanthrene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	108-95-2	Phenol	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	129-00-0	Pyrene	10	10	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	110-86-1	Pyridine	50	50	ug/l	U	U	SW846 8270
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	630-20-6	1,1,1,2-Tetrachloroethane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	71-55-6	1,1,1-Trichloroethane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	79-34-5	1,1,2,2-Tetrachloroethane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	79-00-5	1,1,2-Trichloroethane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	75-34-3	1,1-Dichloroethane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	75-35-4	1,1-Dichloroethene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	563-58-6	1,1-Dichloropropene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	87-61-6	1,2,3-Trichlorobenzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	96-18-4	1,2,3-Trichloropropane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	120-82-1	1,2,4-Trichlorobenzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	95-63-6	1,2,4-trimethylbenzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	106-93-4	1,2-Dibromoethane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	95-50-1	1,2-Dichlorobenzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	107-06-2	1,2-Dichloroethane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	78-87-5	1,2-Dichloropropane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	156-59-2	1,2-cis-Dichloroethene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	96-12-8	1,2-dibromo-3-chloropropane	5	5	ug/l	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	156-60-5	1,2-trans-Dichloroethene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	108-67-8	1,3,5-trimethylbenzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	541-73-1	1,3-Dichlorobenzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	142-28-9	1,3-Dichloropropane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	106-46-7	1,4-Dichlorobenzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	594-20-7	2,2-Dichloropropane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	78-93-3	2-Butanone	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	95-49-8	2-Chlorotoluene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	591-78-6	2-Hexanone	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	106-43-4	4-Chlorotoluene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	108-10-1	4-Methyl-2-pentanone	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	67-64-1	Acetone	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	71-43-2	Benzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	108-86-1	Bromobenzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	74-97-5	Bromochloromethane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	75-27-4	Bromodichloromethane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	75-25-2	Bromoform	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	74-83-9	Bromomethane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	56-23-5	Carbon Tetrachloride	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	108-90-7	Chlorobenzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	75-00-3	Chloroethane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	67-66-3	Chloroform	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	74-87-3	Chloromethane	5	5	ug/l	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	124-48-1	Dibromochloromethane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	74-95-3	Dibromomethane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	75-71-8	Dichlorodifluoromethane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	100-41-4	Ethylbenzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	87-68-3	Hexachlorobutadiene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	98-82-8	Isopropyl Benzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	75-09-2	Methylene Chloride	5	5	ug/l		U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	91-20-3	Naphthalene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	100-42-5	Styrene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	127-18-4	Tetrachloroethene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	108-88-3	Toluene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	79-01-6	Trichloroethene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	75-69-4	Trichlorofluoromethane	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	75-01-4	Vinyl Chloride	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	13-302-07	m,p-Xylene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	104-51-8	n-Butylbenzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	103-65-1	n-propylbenzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	95-47-6	o-Xylene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	99-87-6	p-Isopropyltoluene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	135-98-8	sec-Butylbenzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHGW164	FH021-GW164/03-19-97	03/19/1997	0.0-0.0	98-06-6	tert-Butylbenzene	5	5	ug/l	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7440-38-2	Arsenic	4.7	0.41	mg/kg			SW846 6010
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7440-39-3	Barium	85.3	0.08	mg/kg			SW846 6010

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7440-43-9	Cadmium	0.89	0.07	mg/kg			SW846 6010
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7440-47-3	Chromium	13.7	0.09	mg/kg			SW846 6010
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7439-92-1	Lead	37.8	0.24	mg/kg			SW846 6010
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7439-97-6	Mercury	0.09	0.04	mg/kg			SW846 6010
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7782-49-2	Selenium	1.5	1.5	mg/kg	UWM N	UJ	SW846 6010
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7440-22-4	Silver	0.23	0.23	mg/kg	U	U	SW846 6010
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-94-3	1,2,4,5-Tetrachlorobenzene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	120-82-1	1,2,4-Trichlorobenzene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-50-1	1,2-Dichlorobenzene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	541-73-1	1,3-Dichlorobenzene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	106-46-7	1,4-Dichlorobenzene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	108-60-1	2,2'-oxybis(1-chloropropane)	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-95-4	2,4,5-Trichlorophenol	2100	2100	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	88-06-2	2,4,6-Trichlorophenol	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	120-83-2	2,4-Dichlorophenol	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	105-67-9	2,4-Dimethylphenol	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	51-28-5	2,4-Dinitrophenol	2100	2100	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	121-14-2	2,4-Dinitrotoluene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	606-20-2	2,6-Dinitrotoluene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	91-58-7	2-Chloronaphthalene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-57-8	2-Chlorophenol	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	91-57-6	2-Methylnaphthalene	430	430	ug/kg	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-48-7	2-Methylphenol	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	88-74-4	2-Nitroaniline	2100	2100	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	88-75-5	2-Nitrophenol	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	91-94-1	3,3'-Dichlorobenzidine	870	870	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	99-09-2	3-Nitroaniline	2100	2100	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	534-52-1	4,6-Dinitro-o-Cresol	2100	2100	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	101-55-3	4-Bromophenyl-phenyl Ether	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	106-47-8	4-Chloroaniline	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	7005-72-3	4-Chlorophenyl-phenylether	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	106-44-5	4-Methylphenol	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	100-01-6	4-Nitroaniline	2100	2100	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	100-02-7	4-Nitrophenol	2100	2100	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	59-50-7	4-chloro-3-methylphenol	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	83-32-9	Acenaphthene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	208-96-8	Acenaphthylene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	120-12-7	Anthracene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	56-55-3	Benzo(a)anthracene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	50-32-8	Benzo(a)pyrene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	205-99-2	Benzo(b)fluoranthene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	191-24-2	Benzo(g,h,i)perylene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	207-08-9	Benzo(k)fluoranthene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	65-85-0	Benzoic Acid	2100	2100	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	100-51-6	Benzyl Alcohol	430	430	ug/kg	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	111-91-1	Bis(2-chloroethoxy)methane	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	111-44-4	Bis(2-chloroethyl)ether	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	117-81-7	Bis(2-ethylhexyl)phthalate	180	430	ug/kg	J	J	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	85-68-7	Butyl Benzyl Phthalate	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	218-01-9	Chrysene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	84-74-2	Di-n-butyl Phthalate	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	117-84-0	Di-n-octyl Phthalate	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	53-70-3	Dibenz(a,h)anthracene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	132-64-9	Dibenzofuran	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	84-66-2	Diethyl Phthalate	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	131-11-3	Dimethyl Phthalate	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	206-44-0	Fluoranthene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	86-73-7	Fluorene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	118-74-1	Hexachlorobenzene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	87-68-3	Hexachlorobutadiene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	77-47-4	Hexachlorocyclopentadiene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	67-72-1	Hexachloroethane	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	193-39-5	Indeno(1,2,3-cd)pyrene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	78-59-1	Isophorone	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	621-64-7	N-Nitroso-di-n-propylamine	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	86-30-6	N-Nitrosodiphenylamine	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	91-20-3	Naphthalene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	98-95-3	Nitrobenzene	430	430	ug/kg	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	87-86-5	Pentachlorophenol	2100	2100	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	85-01-8	Phenanthrene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	108-95-2	Phenol	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	129-00-0	Pyrene	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	110-86-1	Pyridine	430	430	ug/kg	U	U	SW846 8270
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	630-20-6	1,1,1,2-Tetrachloroethane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	71-55-6	1,1,1-Trichloroethane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	79-34-5	1,1,2,2-Tetrachloroethane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	79-00-5	1,1,2-Trichloroethane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-34-3	1,1-Dichloroethane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-35-4	1,1-Dichloroethene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	563-58-6	1,1-Dichloropropene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	87-61-6	1,2,3-Trichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	96-18-4	1,2,3-Trichloropropane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	120-82-1	1,2,4-Trichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-63-6	1,2,4-trimethylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	106-93-4	1,2-Dibromoethane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-50-1	1,2-Dichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	107-06-2	1,2-Dichloroethane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	78-87-5	1,2-Dichloropropane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	156-59-2	1,2-cis-Dichloroethene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	96-12-8	1,2-dibromo-3-chloropropane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	156-60-5	1,2-trans-Dichloroethene	6	6	ug/kg	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	108-67-8	1,3,5-trimethylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	541-73-1	1,3-Dichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	142-28-9	1,3-Dichloropropane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	106-46-7	1,4-Dichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	594-20-7	2,2-Dichloropropane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	78-93-3	2-Butanone	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-49-8	2-Chlorotoluene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	591-78-6	2-Hexanone	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	106-43-4	4-Chlorotoluene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	108-10-1	4-Methyl-2-pentanone	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	67-64-1	Acetone	31	6	ug/kg	B	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	71-43-2	Benzene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	108-86-1	Bromobenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	74-97-5	Bromochloromethane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-27-4	Bromodichloromethane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-25-2	Bromoform	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	74-83-9	Bromomethane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	56-23-5	Carbon Tetrachloride	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	108-90-7	Chlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-00-3	Chloroethane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	67-66-3	Chloroform	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	74-87-3	Chloromethane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	124-48-1	Dibromochloromethane	6	6	ug/kg	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	74-95-3	Dibromomethane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-71-8	Dichlorodifluoromethane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	100-41-4	Ethylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	87-68-3	Hexachlorobutadiene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	98-82-8	Isopropyl Benzene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-09-2	Methylene Chloride	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	91-20-3	Naphthalene	3	6	ug/kg	J	J	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	100-42-5	Styrene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	127-18-4	Tetrachloroethene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	108-88-3	Toluene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	79-01-6	Trichloroethene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-69-4	Trichlorofluoromethane	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	75-01-4	Vinyl Chloride	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	13-302-07	m,p-Xylene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	104-51-8	n-Butylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	103-65-1	n-propylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	95-47-6	o-Xylene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	99-87-6	p-Isopropyltoluene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	135-98-8	sec-Butylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101E	FHSB238	FH021-SB238/03-19-97/7.5-8.0	03/19/1997	2.0-8.0	98-06-6	tert-Butylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7440-38-2	Arsenic	3.3	0.36	mg/kg			SW846 6010
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7440-39-3	Barium	58.9	0.07	mg/kg			SW846 6010
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7440-43-9	Cadmium	0.21	0.06	mg/kg	B		SW846 6010

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7440-47-3	Chromium	8.9	0.08	mg/kg			SW846 6010
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7439-92-1	Lead	7.2	0.21	mg/kg			SW846 6010
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7439-97-6	Mercury	0.04	0.04	mg/kg	U	U	SW846 7470
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7782-49-2	Selenium	1.3	1.3	mg/kg	UW	UJ	SW846 7740
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7440-22-4	Silver	0.2	0.20	mg/kg	U	U	SW846 6010
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-94-3	1,2,4,5-Tetrachlorobenzene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	120-82-1	1,2,4-Trichlorobenzene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-50-1	1,2-Dichlorobenzene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	541-73-1	1,3-Dichlorobenzene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	106-46-7	1,4-Dichlorobenzene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	108-60-1	2,2'-oxybis(1-chloropropane)	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-95-4	2,4,5-Trichlorophenol	1900	1900	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	88-06-2	2,4,6-Trichlorophenol	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	120-83-2	2,4-Dichlorophenol	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	105-67-9	2,4-Dimethylphenol	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	51-28-5	2,4-Dinitrophenol	1900	1900	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	121-14-2	2,4-Dinitrotoluene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	606-20-2	2,6-Dinitrotoluene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	91-58-7	2-Chloronaphthalene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-57-8	2-Chlorophenol	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	91-57-6	2-Methylnaphthalene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-48-7	2-Methylphenol	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	88-74-4	2-Nitroaniline	1900	1900	ug/kg	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	88-75-5	2-Nitrophenol	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	91-94-1	3,3'-Dichlorobenzidine	780	780	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	99-09-2	3-Nitroaniline	1900	1900	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	534-52-1	4,6-Dinitro-o-Cresol	1900	1900	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	101-55-3	4-Bromophenyl-phenyl Ether	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	106-47-8	4-Chloroaniline	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7005-72-3	4-Chlorophenyl-phenylether	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	106-44-5	4-Methylphenol	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	100-01-6	4-Nitroaniline	1900	1900	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	100-02-7	4-Nitrophenol	1900	1900	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	59-50-7	4-chloro-3-methylphenol	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	83-32-9	Acenaphthene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	208-96-8	Acenaphthylene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	120-12-7	Anthracene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	56-55-3	Benzo(a)anthracene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	50-32-8	Benzo(a)pyrene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	205-99-2	Benzo(b)fluoranthene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	191-24-2	Benzo(g,h,i)perylene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	207-08-9	Benzo(k)fluoranthene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	65-85-0	Benzoic Acid	1900	1900	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	100-51-6	Benzyl Alcohol	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	111-91-1	Bis(2-chloroethoxy)methane	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	111-44-4	Bis(2-chloroethyl)ether	390	390	ug/kg	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	117-81-7	Bis(2-ethylhexyl)phthalate	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	85-68-7	Butyl Benzyl Phthalate	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	218-01-9	Chrysene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	84-74-2	Di-n-butyl Phthalate	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	117-84-0	Di-n-octyl Phthalate	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	53-70-3	Dibenz(a,h)anthracene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	132-64-9	Dibenzofuran	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	84-66-2	Diethyl Phthalate	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	131-11-3	Dimethyl Phthalate	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	206-44-0	Fluoranthene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	86-73-7	Fluorene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	118-74-1	Hexachlorobenzene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	87-68-3	Hexachlorobutadiene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	77-47-4	Hexachlorocyclopentadiene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	67-72-1	Hexachloroethane	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	193-39-5	Indeno(1,2,3-cd)pyrene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	78-59-1	Isophorone	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	621-64-7	N-Nitroso-di-n-propylamine	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	86-30-6	N-Nitrosodiphenylamine	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	91-20-3	Naphthalene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	98-95-3	Nitrobenzene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	87-86-5	Pentachlorophenol	1900	1900	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	85-01-8	Phenanthrene	390	390	ug/kg	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	108-95-2	Phenol	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	129-00-0	Pyrene	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	110-86-1	Pyridine	390	390	ug/kg	U	U	SW846 8270
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	630-20-6	1,1,1,2-Tetrachloroethane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	71-55-6	1,1,1-Trichloroethane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	79-34-5	1,1,2,2-Tetrachloroethane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	79-00-5	1,1,2-Trichloroethane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-34-3	1,1-Dichloroethane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-35-4	1,1-Dichloroethene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	563-58-6	1,1-Dichloropropene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	87-61-6	1,2,3-Trichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	96-18-4	1,2,3-Trichloropropane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	120-82-1	1,2,4-Trichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-63-6	1,2,4-trimethylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	106-93-4	1,2-Dibromoethane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-50-1	1,2-Dichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	107-06-2	1,2-Dichloroethane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	78-87-5	1,2-Dichloropropane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	156-59-2	1,2-cis-Dichloroethene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	96-12-8	1,2-dibromo-3-chloropropane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	156-60-5	1,2-trans-Dichloroethene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	108-67-8	1,3,5-trimethylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	541-73-1	1,3-Dichlorobenzene	6	6	ug/kg	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	142-28-9	1,3-Dichloropropane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	106-46-7	1,4-Dichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	594-20-7	2,2-Dichloropropane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	78-93-3	2-Butanone	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-49-8	2-Chlorotoluene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	591-78-6	2-Hexanone	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	106-43-4	4-Chlorotoluene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	108-10-1	4-Methyl-2-pentanone	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	67-64-1	Acetone	8	6	ug/kg			SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	71-43-2	Benzene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	108-86-1	Bromobenzene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	74-97-5	Bromochloromethane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-27-4	Bromodichloromethane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-25-2	Bromoform	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	74-83-9	Bromomethane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	56-23-5	Carbon Tetrachloride	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	108-90-7	Chlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-00-3	Chloroethane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	67-66-3	Chloroform	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	74-87-3	Chloromethane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	124-48-1	Dibromochloromethane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	74-95-3	Dibromomethane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-71-8	Dichlorodifluoromethane	6	6	ug/kg	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	100-41-4	Ethylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	87-68-3	Hexachlorobutadiene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	98-82-8	Isopropyl Benzene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-09-2	Methylene Chloride	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	91-20-3	Naphthalene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	100-42-5	Styrene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	127-18-4	Tetrachloroethene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	108-88-3	Toluene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	79-01-6	Trichloroethene	16	6	ug/kg			SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-69-4	Trichlorofluoromethane	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-01-4	Vinyl Chloride	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	13-302-07	m,p-Xylene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	104-51-8	n-Butylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	103-65-1	n-propylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-47-6	o-Xylene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	99-87-6	p-Isopropyltoluene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	135-98-8	sec-Butylbenzene	6	6	ug/kg	U	U	SW846 8260
TR101W	21TR104	FH021-TR104/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	98-06-6	tert-Butylbenzene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7440-38-2	Arsenic	5.5	0.39	mg/kg			SW846 6010
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7440-39-3	Barium	58.3	0.08	mg/kg			SW846 6010
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7440-43-9	Cadmium	0.29	0.06	mg/kg	B		SW846 6010
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7440-47-3	Chromium	10.5	0.09	mg/kg			SW846 6010
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7439-92-1	Lead	11.9	0.23	mg/kg			SW846 6010

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7439-97-6	Mercury	0.04	0.04	mg/kg	U	U	SW846 7470
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7782-49-2	Selenium	1.4	1.4	mg/kg	UW	UJ	SW846 7740
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7440-22-4	Silver	0.22	0.22	mg/kg	U	U	SW846 6010
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-94-3	1,2,4,5-Tetrachlorobenzene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	120-82-1	1,2,4-Trichlorobenzene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-50-1	1,2-Dichlorobenzene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	541-73-1	1,3-Dichlorobenzene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	106-46-7	1,4-Dichlorobenzene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	108-60-1	2,2'-oxybis(1-chloropropane)	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-95-4	2,4,5-Trichlorophenol	2000	2000	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	88-06-2	2,4,6-Trichlorophenol	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	120-83-2	2,4-Dichlorophenol	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	105-67-9	2,4-Dimethylphenol	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	51-28-5	2,4-Dinitrophenol	2000	2000	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	121-14-2	2,4-Dinitrotoluene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	606-20-2	2,6-Dinitrotoluene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	91-58-7	2-Chloronaphthalene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-57-8	2-Chlorophenol	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	91-57-6	2-Methylnaphthalene	97	420	ug/kg	J	J	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-48-7	2-Methylphenol	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	88-74-4	2-Nitroaniline	2000	2000	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	88-75-5	2-Nitrophenol	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	91-94-1	3,3'-Dichlorobenzidine	840	840	ug/kg	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	99-09-2	3-Nitroaniline	2000	2000	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	534-52-1	4,6-Dinitro-o-Cresol	2000	2000	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	101-55-3	4-Bromophenyl-phenyl Ether	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	106-47-8	4-Chloroaniline	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	7005-72-3	4-Chlorophenyl-phenylether	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	106-44-5	4-Methylphenol	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	100-01-6	4-Nitroaniline	2000	2000	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	100-02-7	4-Nitrophenol	2000	2000	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	59-50-7	4-chloro-3-methylphenol	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	83-32-9	Acenaphthene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	208-96-8	Acenaphthylene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	120-12-7	Anthracene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	56-55-3	Benzo(a)anthracene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	50-32-8	Benzo(a)pyrene	43	420	ug/kg	J	J	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	205-99-2	Benzo(b)fluoranthene	53	420	ug/kg	J	J	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	191-24-2	Benzo(g,h,i)perylene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	207-08-9	Benzo(k)fluoranthene	49	420	ug/kg	J	J	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	65-85-0	Benzoic Acid	2000	2000	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	100-51-6	Benzyl Alcohol	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	111-91-1	Bis(2-chloroethoxy)methane	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	111-44-4	Bis(2-chloroethyl)ether	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	117-81-7	Bis(2-ethylhexyl)phthalate	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	85-68-7	Butyl Benzyl Phthalate	420	420	ug/kg	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	218-01-9	Chrysene	58	420	ug/kg	J	J	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	84-74-2	Di-n-butyl Phthalate	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	117-84-0	Di-n-octyl Phthalate	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	53-70-3	Dibenz(a,h)anthracene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	132-64-9	Dibenzofuran	50	420	ug/kg	J	J	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	84-66-2	Diethyl Phthalate	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	131-11-3	Dimethyl Phthalate	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	206-44-0	Fluoranthene	72	420	ug/kg	J	J	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	86-73-7	Fluorene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	118-74-1	Hexachlorobenzene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	87-68-3	Hexachlorobutadiene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	77-47-4	Hexachlorocyclopentadiene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	67-72-1	Hexachloroethane	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	193-39-5	Indeno(1,2,3-cd)pyrene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	78-59-1	Isophorone	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	621-64-7	N-Nitroso-di-n-propylamine	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	86-30-6	N-Nitrosodiphenylamine	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	91-20-3	Naphthalene	44	420	ug/kg	J	J	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	98-95-3	Nitrobenzene	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	87-86-5	Pentachlorophenol	2000	2000	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	85-01-8	Phenanthrene	120	420	ug/kg	J	J	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	108-95-2	Phenol	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	129-00-0	Pyrene	67	420	ug/kg	J	J	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	110-86-1	Pyridine	420	420	ug/kg	U	U	SW846 8270
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	630-20-6	1,1,1,2-Tetrachloroethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	71-55-6	1,1,1-Trichloroethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	79-34-5	1,1,2,2-Tetrachloroethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	79-00-5	1,1,2-Trichloroethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-34-3	1,1-Dichloroethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-35-4	1,1-Dichloroethene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	563-58-6	1,1-Dichloropropene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	87-61-6	1,2,3-Trichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	96-18-4	1,2,3-Trichloropropane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	120-82-1	1,2,4-Trichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-63-6	1,2,4-trimethylbenzene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	106-93-4	1,2-Dibromoethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-50-1	1,2-Dichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	107-06-2	1,2-Dichloroethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	78-87-5	1,2-Dichloropropane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	156-59-2	1,2-cis-Dichloroethene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	96-12-8	1,2-dibromo-3-chloropropane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	156-60-5	1,2-trans-Dichloroethene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	108-67-8	1,3,5-trimethylbenzene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	541-73-1	1,3-Dichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	142-28-9	1,3-Dichloropropane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	106-46-7	1,4-Dichlorobenzene	6	6	ug/kg	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	594-20-7	2,2-Dichloropropane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	78-93-3	2-Butanone	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-49-8	2-Chlorotoluene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	591-78-6	2-Hexanone	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	106-43-4	4-Chlorotoluene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	108-10-1	4-Methyl-2-pentanone	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	67-64-1	Acetone	7	6	ug/kg			SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	71-43-2	Benzene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	108-86-1	Bromobenzene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	74-97-5	Bromochloromethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-27-4	Bromodichloromethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-25-2	Bromoform	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	74-83-9	Bromomethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	56-23-5	Carbon Tetrachloride	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	108-90-7	Chlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-00-3	Chloroethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	67-66-3	Chloroform	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	74-87-3	Chloromethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	124-48-1	Dibromochloromethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	74-95-3	Dibromomethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-71-8	Dichlorodifluoromethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	100-41-4	Ethylbenzene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	87-68-3	Hexachlorobutadiene	6	6	ug/kg	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	98-82-8	Isopropyl Benzene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-09-2	Methylene Chloride	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	91-20-3	Naphthalene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	100-42-5	Styrene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	127-18-4	Tetrachloroethene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	108-88-3	Toluene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	79-01-6	Trichloroethene	8	6	ug/kg			SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-69-4	Trichlorofluoromethane	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	75-01-4	Vinyl Chloride	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	13-302-07	m,p-Xylene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	104-51-8	n-Butylbenzene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	103-65-1	n-propylbenzene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	95-47-6	o-Xylene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	99-87-6	p-Isopropyltoluene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	135-98-8	sec-Butylbenzene	6	6	ug/kg	U	U	SW846 8260
TR102E	21TR103	FH021-TR103/03-20-97/0.0-8.0	03/20/1997	2.0-8.0	98-06-6	tert-Butylbenzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	7440-38-2	Arsenic	2.9	0.39	mg/kg			SW846 6010
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	7440-39-3	Barium	64.2	0.08	mg/kg			SW846 6010
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	7440-43-9	Cadmium	0.11	0.06	mg/kg	B		SW846 6010
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	7440-47-3	Chromium	12.3	0.09	mg/kg			SW846 6010
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	7439-92-1	Lead	10.6	0.23	mg/kg			SW846 6010
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	7439-97-6	Mercury	0.04	0.04	mg/kg	U	U	SW846 6010
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	7782-49-2	Selenium	0.28	0.28	mg/kg	UWN	UJ	SW846 6010

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	7440-22-4	Silver	0.22	0.22	mg/kg	U	U	SW846 6010
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	95-94-3	1,2,4,5-Tetrachlorobenzene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	120-82-1	1,2,4-Trichlorobenzene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	95-50-1	1,2-Dichlorobenzene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	541-73-1	1,3-Dichlorobenzene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	106-46-7	1,4-Dichlorobenzene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	108-60-1	2,2'-oxybis(1-chloropropane)	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	95-95-4	2,4,5-Trichlorophenol	2000	2000	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	88-06-2	2,4,6-Trichlorophenol	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	120-83-2	2,4-Dichlorophenol	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	105-67-9	2,4-Dimethylphenol	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	51-28-5	2,4-Dinitrophenol	2000	2000	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	121-14-2	2,4-Dinitrotoluene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	606-20-2	2,6-Dinitrotoluene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	91-58-7	2-Chloronaphthalene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	95-57-8	2-Chlorophenol	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	91-57-6	2-Methylnaphthalene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	95-48-7	2-Methylphenol	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	88-74-4	2-Nitroaniline	2000	2000	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	88-75-5	2-Nitrophenol	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	91-94-1	3,3'-Dichlorobenzidine	840	840	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	99-09-2	3-Nitroaniline	2000	2000	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	534-52-1	4,6-Dinitro-o-Cresol	2000	2000	ug/kg	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	101-55-3	4-Bromophenyl-phenyl Ether	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	106-47-8	4-Chloroaniline	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	7005-72-3	4-Chlorophenyl-phenylether	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	106-44-5	4-Methylphenol	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	100-01-6	4-Nitroaniline	2000	2000	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	100-02-7	4-Nitrophenol	2000	2000	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	59-50-7	4-chloro-3-methylphenol	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	83-32-9	Acenaphthene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	208-96-8	Acenaphthylene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	120-12-7	Anthracene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	56-55-3	Benzo(a)anthracene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	50-32-8	Benzo(a)pyrene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	205-99-2	Benzo(b)fluoranthene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	191-24-2	Benzo(g,h,i)perylene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	207-08-9	Benzo(k)fluoranthene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	65-85-0	Benzoic Acid	2000	2000	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	100-51-6	Benzyl Alcohol	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	111-91-1	Bis(2-chloroethoxy)methane	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	111-44-4	Bis(2-chloroethyl)ether	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	117-81-7	Bis(2-ethylhexyl)phthalate	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	85-68-7	Butyl Benzyl Phthalate	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	218-01-9	Chrysene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	84-74-2	Di-n-butyl Phthalate	420	420	ug/kg	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	117-84-0	Di-n-octyl Phthalate	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	53-70-3	Dibenz(a,h)anthracene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	132-64-9	Dibenzofuran	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	84-66-2	Diethyl Phthalate	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	131-11-3	Dimethyl Phthalate	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	206-44-0	Fluoranthene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	86-73-7	Fluorene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	118-74-1	Hexachlorobenzene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	87-68-3	Hexachlorobutadiene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	77-47-4	Hexachlorocyclopentadiene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	67-72-1	Hexachloroethane	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	193-39-5	Indeno(1,2,3-cd)pyrene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	78-59-1	Isophorone	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	621-64-7	N-Nitroso-di-n-propylamine	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	86-30-6	N-Nitrosodiphenylamine	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	91-20-3	Naphthalene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	98-95-3	Nitrobenzene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	87-86-5	Pentachlorophenol	2000	2000	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	85-01-8	Phenanthrene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	108-95-2	Phenol	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	129-00-0	Pyrene	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	110-86-1	Pyridine	420	420	ug/kg	U	U	SW846 8270
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	630-20-6	1,1,1,2-Tetrachloroethane	6	6	ug/kg	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	71-55-6	1,1,1-Trichloroethane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	79-34-5	1,1,2,2-Tetrachloroethane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	79-00-5	1,1,2-Trichloroethane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	75-34-3	1,1-Dichloroethane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	75-35-4	1,1-Dichloroethene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	563-58-6	1,1-Dichloropropene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	87-61-6	1,2,3-Trichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	96-18-4	1,2,3-Trichloropropane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	120-82-1	1,2,4-Trichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	95-63-6	1,2,4-trimethylbenzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	106-93-4	1,2-Dibromoethane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	95-50-1	1,2-Dichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	107-06-2	1,2-Dichloroethane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	78-87-5	1,2-Dichloropropane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	156-59-2	1,2-cis-Dichloroethene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	96-12-8	1,2-dibromo-3-chloropropane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	156-60-5	1,2-trans-Dichloroethene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	108-67-8	1,3,5-trimethylbenzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	541-73-1	1,3-Dichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	142-28-9	1,3-Dichloropropane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	106-46-7	1,4-Dichlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	594-20-7	2,2-Dichloropropane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	78-93-3	2-Butanone	6	6	ug/kg	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	95-49-8	2-Chlorotoluene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	591-78-6	2-Hexanone	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	106-43-4	4-Chlorotoluene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	108-10-1	4-Methyl-2-pentanone	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	67-64-1	Acetone	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	71-43-2	Benzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	108-86-1	Bromobenzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	74-97-5	Bromochloromethane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	75-27-4	Bromodichloromethane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	75-25-2	Bromoform	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	74-83-9	Bromomethane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	56-23-5	Carbon Tetrachloride	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	108-90-7	Chlorobenzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	75-00-3	Chloroethane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	67-66-3	Chloroform	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	74-87-3	Chloromethane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	124-48-1	Dibromochloromethane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	74-95-3	Dibromomethane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	75-71-8	Dichlorodifluoromethane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	100-41-4	Ethylbenzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	87-68-3	Hexachlorobutadiene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	98-82-8	Isopropyl Benzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	75-09-2	Methylene Chloride	6	6	ug/kg	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	91-20-3	Naphthalene	10	6	ug/kg			SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	100-42-5	Styrene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	127-18-4	Tetrachloroethene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	108-88-3	Toluene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	79-01-6	Trichloroethene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	75-69-4	Trichlorofluoromethane	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	75-01-4	Vinyl Chloride	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	13-302-07	m,p-Xylene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	104-51-8	n-Butylbenzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	103-65-1	n-propylbenzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	95-47-6	o-Xylene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	99-87-6	p-Isopropyltoluene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	135-98-8	sec-Butylbenzene	6	6	ug/kg	U	U	SW846 8260
TR102W	21TR102	FH021-TR102/03-19-97/0.0-7.0	03/19/1997	2.0-8.0	98-06-6	tert-Butylbenzene	6	6	ug/kg	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	00-0.0	7440-38-2	Arsenic	3.8	2.1	ug/l	B		SW846 6010
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	7440-39-3	Barium	232	0.30	ug/l			SW846 6010
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	7440-43-9	Cadmium	0.3	0.30	ug/l	U	U	SW846 6010
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	7440-47-3	Chromium	1	1.0	ug/l	U	U	SW846 6010
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	7439-92-1	Lead	3.5	0.90	ug/l			SW846 6010
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	7439-97-6	Mercury	0.1	0.10	ug/l	U	U	SW846 7470
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	7782-49-2	Selenium	2.2	2.2	ug/l	UW	UJ	SW846 7740
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	7440-22-4	Silver	1	1.0	ug/l	U	U	SW846 6010
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	95-94-3	1,2,4,5-Tetrachlorobenzene	10	10	ug/l	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	120-82-1	1,2,4-Trichlorobenzene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	95-50-1	1,2-Dichlorobenzene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	541-73-1	1,3-Dichlorobenzene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	106-46-7	1,4-Dichlorobenzene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	108-60-1	2,2'-oxybis(1-chloropropane)	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	95-95-4	2,4,5-Trichlorophenol	50	50	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	88-06-2	2,4,6-Trichlorophenol	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	120-83-2	2,4-Dichlorophenol	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	105-67-9	2,4-Dimethylphenol	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	51-28-5	2,4-Dinitrophenol	50	50	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	121-14-2	2,4-Dinitrotoluene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	606-20-2	2,6-Dinitrotoluene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	91-58-7	2-Chloronaphthalene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	95-57-8	2-Chlorophenol	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	91-57-6	2-Methylnaphthalene	1	10	ug/l	J	J	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	95-48-7	2-Methylphenol	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	88-74-4	2-Nitroaniline	50	50	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	88-75-5	2-Nitrophenol	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	91-94-1	3,3'-Dichlorobenzidine	20	20	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	99-09-2	3-Nitroaniline	50	50	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	534-52-1	4,6-Dinitro-o-Cresol	50	50	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	101-55-3	4-Bromophenyl-phenyl Ether	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	106-47-8	4-Chloroaniline	10	10	ug/l	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	7005-72-3	4-Chlorophenyl-phenylether	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	106-44-5	4-Methylphenol	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	100-01-6	4-Nitroaniline	50	50	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	100-02-7	4-Nitrophenol	50	50	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	59-50-7	4-chloro-3-methylphenol	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	83-32-9	Acenaphthene	2	10	ug/l	J	J	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	208-96-8	Acenaphthylene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	120-12-7	Anthracene	7	10	ug/l	J	J	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	56-55-3	Benzo(a)anthracene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	50-32-8	Benzo(a)pyrene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	205-99-2	Benzo(b)fluoranthene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	191-24-2	Benzo(g,h,i)perylene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	207-08-9	Benzo(k)fluoranthene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	65-85-0	Benzoic Acid	2	50	ug/l	J	J	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	100-51-6	Benzyl Alcohol	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	111-91-1	Bis(2-chloroethoxy)methane	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	111-44-4	Bis(2-chloroethyl)ether	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	117-81-7	Bis(2-ethylhexyl)phthalate	3	10	ug/l	J	J	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	85-68-7	Butyl Benzyl Phthalate	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	218-01-9	Chrysene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	84-74-2	Di-n-butyl Phthalate	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	117-84-0	Di-n-octyl Phthalate	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	53-70-3	Dibenz(a,h)anthracene	10	10	ug/l	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	132-64-9	Dibenzofuran	1	10	ug/l	J	J	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	84-66-2	Diethyl Phthalate	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	131-11-3	Dimethyl Phthalate	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	206-44-0	Fluoranthene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	86-73-7	Fluorene	1	10	ug/l	J	J	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	118-74-1	Hexachlorobenzene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	87-68-3	Hexachlorobutadiene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	77-47-4	Hexachlorocyclopentadiene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	67-72-1	Hexachloroethane	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	193-39-5	Indeno(1,2,3-cd)pyrene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	78-59-1	Isophorone	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	621-64-7	N-Nitroso-di-n-propylamine	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	86-30-6	N-Nitrosodiphenylamine	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	91-20-3	Naphthalene	8	10	ug/l	J	J	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	98-95-3	Nitrobenzene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	87-86-5	Pentachlorophenol	50	50	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	85-01-8	Phenanthrene	1	10	ug/l	J	J	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	108-95-2	Phenol	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	129-00-0	Pyrene	10	10	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	110-86-1	Pyridine	50	50	ug/l	U	U	SW846 8270
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	630-20-6	1,1,1,2-Tetrachloroethane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	71-55-6	1,1,1-Trichloroethane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	79-34-5	1,1,2,2-Tetrachloroethane	5	5	ug/l	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	79-00-5	1,1,2-Trichloroethane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	75-34-3	1,1-Dichloroethane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	75-35-4	1,1-Dichloroethene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	563-58-6	1,1-Dichloropropene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	87-61-6	1,2,3-Trichlorobenzene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	96-18-4	1,2,3-Trichloropropane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	120-82-1	1,2,4-Trichlorobenzene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	95-63-6	1,2,4-trimethylbenzene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	106-93-4	1,2-Dibromoethane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	95-50-1	1,2-Dichlorobenzene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	107-06-2	1,2-Dichloroethane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	78-87-5	1,2-Dichloropropane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	156-59-2	1,2-cis-Dichloroethene	1	5	ug/l	J	J	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	96-12-8	1,2-dibromo-3-chloropropane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	156-60-5	1,2-trans-Dichloroethene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	108-67-8	1,3,5-trimethylbenzene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	541-73-1	1,3-Dichlorobenzene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	142-28-9	1,3-Dichloropropane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	106-46-7	1,4-Dichlorobenzene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	594-20-7	2,2-Dichloropropane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	78-93-3	2-Butanone	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	95-49-8	2-Chlorotoluene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	591-78-6	2-Hexanone	5	5	ug/l	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	106-43-4	4-Chlorotoluene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	108-10-1	4-Methyl-2-pentanone	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	67-64-1	Acetone	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	71-43-2	Benzene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	108-86-1	Bromobenzene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	74-97-5	Bromochloromethane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	75-27-4	Bromodichloromethane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	75-25-2	Bromoform	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	74-83-9	Bromomethane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	56-23-5	Carbon Tetrachloride	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	108-90-7	Chlorobenzene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	75-00-3	Chloroethane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	67-66-3	Chloroform	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	74-87-3	Chloromethane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	124-48-1	Dibromochloromethane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	74-95-3	Dibromomethane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	75-71-8	Dichlorodifluoromethane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	100-41-4	Ethylbenzene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	87-68-3	Hexachlorobutadiene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	98-82-8	Isopropyl Benzene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	75-09-2	Methylene Chloride	5	5	ug/l		U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	91-20-3	Naphthalene	19	5	ug/l			SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	100-42-5	Styrene	5	5	ug/l	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	127-18-4	Tetrachloroethene	2	5	ug/l	J	J	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	108-88-3	Toluene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	79-01-6	Trichloroethene	4	5	ug/l	J	J	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	75-69-4	Trichlorofluoromethane	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	75-01-4	Vinyl Chloride	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	13-302-07	m,p-Xylene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	104-51-8	n-Butylbenzene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	103-65-1	n-propylbenzene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	95-47-6	o-Xylene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	99-87-6	p-Isopropyltoluene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	135-98-8	sec-Butylbenzene	5	5	ug/l	U	U	SW846 8260
TR102W	FHGW165	FH021-GW165/03-20-97	03/20/1997	0.0-0.0	98-06-6	tert-Butylbenzene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		630-20-6	1,1,1,2-Tetrachloroethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		71-55-6	1,1,1-Trichloroethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		79-34-5	1,1,2,2-Tetrachloroethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		79-00-5	1,1,2-Trichloroethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		75-34-3	1,1-Dichloroethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		75-35-4	1,1-Dichloroethene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		563-58-6	1,1-Dichloropropene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		87-61-6	1,2,3-Trichlorobenzene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		96-18-4	1,2,3-Trichloropropane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		120-82-1	1,2,4-Trichlorobenzene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		95-63-6	1,2,4-trimethylbenzene	5	5	ug/l	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
	TB104	FH021-TB104/03-20-97	03/20/1997		106-93-4	1,2-Dibromoethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		95-50-1	1,2-Dichlorobenzene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		107-06-2	1,2-Dichloroethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		78-87-5	1,2-Dichloropropane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		156-59-2	1,2-cis-Dichloroethene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		96-12-8	1,2-dibromo-3-chloropropane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		156-60-5	1,2-trans-Dichloroethene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		108-67-8	1,3,5-trimethylbenzene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		541-73-1	1,3-Dichlorobenzene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		142-28-9	1,3-Dichloropropane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		106-46-7	1,4-Dichlorobenzene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		594-20-7	2,2-Dichloropropane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		78-93-3	2-Butanone	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		95-49-8	2-Chlorotoluene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		591-78-6	2-Hexanone	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		106-43-4	4-Chlorotoluene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		108-10-1	4-Methyl-2-pentanone	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		67-64-1	Acetone	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		71-43-2	Benzene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		108-86-1	Bromobenzene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		74-97-5	Bromochloromethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		75-27-4	Bromodichloromethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		75-25-2	Bromoform	5	5	ug/l	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
	TB104	FH021-TB104/03-20-97	03/20/1997		74-83-9	Bromomethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		56-23-5	Carbon Tetrachloride	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		108-90-7	Chlorobenzene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		75-00-3	Chloroethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		67-66-3	Chloroform	4	5	ug/l	J	J	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		74-87-3	Chloromethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		124-48-1	Dibromochloromethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		74-95-3	Dibromomethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		75-71-8	Dichlorodifluoromethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		100-41-4	Ethylbenzene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		87-68-3	Hexachlorobutadiene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		98-82-8	Isopropyl Benzene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		75-09-2	Methylene Chloride	5	5	ug/l			SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		91-20-3	Naphthalene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		100-42-5	Styrene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		127-18-4	Tetrachloroethene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		108-88-3	Toluene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		79-01-6	Trichloroethene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		75-69-4	Trichlorofluoromethane	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		75-01-4	Vinyl Chloride	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		13-302-07	m,p-Xylene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		104-51-8	n-Butylbenzene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		103-65-1	n-propylbenzene	5	5	ug/l	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
	TB104	FH021-TB104/03-20-97	03/20/1997		95-47-6	o-Xylene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		99-87-6	p-Isopropyltoluene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		135-98-8	sec-Butylbenzene	5	5	ug/l	U	U	SW846 8260
	TB104	FH021-TB104/03-20-97	03/20/1997		98-06-6	tert-Butylbenzene	5	5	ug/l	U	U	SW846 8260

APPENDIX C

Fort Hood RFI Background Soils Data

Ft. Hood RCRA Facility Investigation
FH-BKG Fort Hood Background
Analytical Results

Station: SB101 Background Soil Boring SB101

Sample ID: FH000-SB10112-10-96/2.0-2.5 (BKSB101)

Sample Depth: 2.0-2.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3	0.41	MG/KG		
Barium	21.3	0.10	MG/KG	*	J
Cadmium	0.12	0.05	MG/KG	B	
Chromium	5.1	0.10	MG/KG	E*	J
Lead	6	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.37	0.37	MG/KG	U	U
Silver	0.24	0.24	MG/KG	U	U

Sample ID: FH000-SB10212-10-96/4.0-4.7 (BKSB102)

Sample Depth: 4.0-4.7 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	2	0.39	MG/KG		
Barium	8	0.10	MG/KG	*	J
Cadmium	0.05	0.05	MG/KG	B	
Chromium	10.3	0.10	MG/KG	E*	J
Lead	5	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.36	0.36	MG/KG	U	U
Silver	0.23	0.23	MG/KG	U	U

Sample ID: FH000-SB10312-10-96/10.5-11.0 (BKSB103)

Sample Depth: 10.5-11.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	9.1	0.42	MG/KG		
Barium	14.7	0.10	MG/KG	*	J
Cadmium	0.05	0.05	MG/KG	U	U
Chromium	10.1	0.10	MG/KG	E*	J
Lead	9.5	0.18	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.38	0.38	MG/KG	U	U
Silver	0.24	0.24	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB102 Background Soil Boring SB102

Sample ID: FH000-SB12112-12-96/0.0-1.5 (BKSB121)

Sample Depth: 0.0-1.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.1	0.38	MG/KG		
Barium	24	0.09	MG/KG		
Cadmium	0.18	0.05	MG/KG	B	
Chromium	6.3	0.09	MG/KG		
Lead	10.2	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

Sample ID: FH000-SB12212-12-96/14.0-14.5 (BKSB122)

Sample Depth: 14.0-14.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.2	0.36	MG/KG		
Barium	6.1	0.09	MG/KG		
Cadmium	0.06	0.04	MG/KG	B	
Chromium	4.9	0.09	MG/KG		
Lead	4.1	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB12312-12-96/19.0-19.5 (BKSB123)

Sample Depth: 19.0-19.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.8	0.36	MG/KG		
Barium	5.5	0.09	MG/KG		
Cadmium	0.08	0.04	MG/KG	B	
Chromium	4.3	0.09	MG/KG		
Lead	3.8	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB20212-12-96/0.0-1.5 (BKSB202)

Sample Depth: 0.0-1.5 FT

Matrix: Soil

Field Sample Type: Field Duplicate

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.2	0.37	MG/KG		
Barium	18.2	0.09	MG/KG		
Cadmium	0.12	0.04	MG/KG	B	
Chromium	5.9	0.09	MG/KG		
Lead	4.5	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation
FH-BKG Fort Hood Background
Analytical Results

Station: SB103 Background Soil Boring SB103

Sample ID: FH000-SB10412-10-96/0.0-1.5 (BKSB104)

Sample Depth: 0.0-1.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	6.2	0.35	MG/KG		
Barium	28.2	0.08	MG/KG	*	J
Cadmium	0.15	0.04	MG/KG	B	
Chromium	3.1	0.08	MG/KG	E*	J
Lead	5.3	0.15	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	U	U
Silver	0.2	0.20	MG/KG	U	U

Sample ID: FH000-SB10512-10-96/4.0-6.0 (BKSB105)

Sample Depth: 4.0-6.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.3	0.36	MG/KG		
Barium	23.4	0.09	MG/KG	*	J
Cadmium	0.11	0.04	MG/KG	B	
Chromium	4	0.09	MG/KG	E*	J
Lead	3.9	0.15	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB10612-10-96/9.0-9.4 (BKSB106)

Sample Depth: 9.0-9.4 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.4	0.37	MG/KG		
Barium	43.7	0.09	MG/KG	*	J
Cadmium	0.16	0.04	MG/KG	B	
Chromium	7.6	0.09	MG/KG	E*	J
Lead	5	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB10712-10-96/14.0-15.0 (BKSB107)

Sample Depth: 14.0-15.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	53	0.39	MG/KG		
Barium	1350	0.09	MG/KG	*	J
Cadmium	0.35	0.05	MG/KG	B	
Chromium	5.1	0.09	MG/KG	E*	J
Lead	6.1	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.36	0.36	MG/KG	U	U
Silver	0.23	0.23	MG/KG	U	U

Ft. Hood RCRA Facility Investigation
FH-BKG Fort Hood Background
Analytical Results

Station: SB104 Background Soil Boring SB104
 Sample ID: FH000-SB10812-11-96/0.0-1.0 (BKSB108) Sample Depth: 0.0-1.0 FT
 Matrix: Soil Field Sample Type: Grab Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	6	0.40	MG/KG		
Barium	72.4	0.10	MG/KG	*	J
Cadmium	0.2	0.05	MG/KG	B	
Chromium	12.9	0.10	MG/KG	E*	J
Lead	9.8	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.37	0.37	MG/KG	U	U
Silver	0.23	0.23	MG/KG	U	U

Sample ID: FH000-SB10912-11-96/4.0-5.0 (BKSB109) Sample Depth: 4.0-5.0 FT
 Matrix: Soil Field Sample Type: Grab Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.5	0.38	MG/KG		
Barium	155	0.09	MG/KG	*	J
Cadmium	0.07	0.05	MG/KG	B	
Chromium	6.5	0.09	MG/KG	E*	J
Lead	3.2	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

Sample ID: FH000-SB11012-11-96/11.0-11.5 (BKSB110) Sample Depth: 11.0-11.5 FT
 Matrix: Soil Field Sample Type: Grab Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.8	0.40	MG/KG		
Barium	24.1	0.10	MG/KG	*	J
Cadmium	0.06	0.05	MG/KG	B	
Chromium	16.6	0.10	MG/KG	E*	J
Lead	7.8	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.36	0.36	MG/KG	U	U
Silver	0.23	0.23	MG/KG	U	U

Sample ID: FH000-SB11112-11-96/18.0-18.5 (BKSB111) Sample Depth: 18.0-18.5 FT
 Matrix: Soil Field Sample Type: Grab Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	5.2	0.38	MG/KG		
Barium	7.2	0.09	MG/KG	*	J
Cadmium	0.05	0.05	MG/KG	B	
Chromium	6.2	0.09	MG/KG	E*	J
Lead	5.3	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station:	SB105	Background Soil Boring SB105		Sample Depth:	1.0-1.5 FT	
	Sample ID: FH000-SB11212-11-96/1.0-1.5	(BKSB112)		Field Sample Type:	Grab	Collected: 12/11/96
	Matrix: Soil					
Metals		Result	Detection Limit	Units	Qualifiers	
					Lab	Data
	Arsenic	1.6	0.35	MG/KG		
	Barium	6.6	0.09	MG/KG	•	J
	Cadmium	0.04	0.04	MG/KG	U	U
	Chromium	4	0.09	MG/KG	E*	J
	Lead	1.5	0.15	MG/KG	EN*	J
	Mercury	0.04	0.04	MG/KG	U	U
	Selenium	0.32	0.32	MG/KG	U	U
	Silver	0.2	0.20	MG/KG	U	U
Sample ID: FH000-SB11312-11-96/4.0-5.0		(BKSB113)		Sample Depth:	4.0-5.0 FT	
	Matrix: Soil			Field Sample Type:	Grab	Collected: 12/11/96
Metals		Result	Detection Limit	Units	Qualifiers	
					Lab	Data
	Arsenic	5.7	0.40	MG/KG		
	Barium	20.5	0.10	MG/KG	•	J
	Cadmium	0.07	0.05	MG/KG	B	
	Chromium	8.9	0.10	MG/KG	E*	J
	Lead	6	0.17	MG/KG	EN*	J
	Mercury	0.04	0.04	MG/KG	U	U
	Selenium	0.36	0.36	MG/KG	U	U
	Silver	0.23	0.23	MG/KG	U	U
Sample ID: FH000-SB11412-11-96/11.0-12.0		(BKSB114)		Sample Depth:	11.0-12.0 FT	
	Matrix: Soil			Field Sample Type:	Grab	Collected: 12/11/96
Metals		Result	Detection Limit	Units	Qualifiers	
					Lab	Data
	Arsenic	5.2	0.42	MG/KG		
	Barium	25.2	0.10	MG/KG	•	J
	Cadmium	0.05	0.05	MG/KG	U	U
	Chromium	20.3	0.10	MG/KG	E*	J
	Lead	7.7	0.18	MG/KG	EN*	J
	Mercury	0.04	0.04	MG/KG	U	U
	Selenium	0.38	0.38	MG/KG	U	U
	Silver	0.24	0.24	MG/KG	U	U
Sample ID: FH000-SB11512-11-96/15.0-15.5		(BKSB115)		Sample Depth:	15.0-15.5 FT	
	Matrix: Soil			Field Sample Type:	Grab	Collected: 12/11/96
Metals		Result	Detection Limit	Units	Qualifiers	
					Lab	Data
	Arsenic	5.3	0.36	MG/KG		
	Barium	10.6	0.09	MG/KG	•	J
	Cadmium	0.06	0.04	MG/KG	B	
	Chromium	7.3	0.09	MG/KG	E*	J
	Lead	5.1	0.15	MG/KG	EN*	J
	Mercury	0.04	0.04	MG/KG	U	U
	Selenium	0.32	0.32	MG/KG	U	U
	Silver	0.2	0.20	MG/KG	U	U

Ft. Hood RCRA Facility Investigation
FH-BKG Fort Hood Background
Analytical Results

Sample ID: FH000-SB11612-11-96/22.0-22.5 (BKSB116)
 Matrix: Soil

Sample Depth: 22.0-22.5 FT
 Field Sample Type: Grab

Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	11.6	0.37	MG/KG		
Barium	4.9	0.09	MG/KG	*	J
Cadmium	0.2	0.04	MG/KG	B	
Chromium	2.7	0.09	MG/KG	E*	J
Lead	5.6	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation
FH-BKG Fort Hood Background
Analytical Results

Station: SB106 Background Soil Boring SB106

Sample ID: FH000-SB11712-12-96/0.0-1.0 (BKSB117)

Sample Depth: 0.0-1.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.4	0.37	MG/KG		
Barium	27.9	0.09	MG/KG	*	J
Cadmium	0.18	0.04	MG/KG	B	
Chromium	5.7	0.09	MG/KG	E*	J
Lead	8.3	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB11812-12-96/9.0-9.5 (BKSB118)

Sample Depth: 9.0-9.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	2.6	0.37	MG/KG		
Barium	4.4	0.09	MG/KG	*	J
Cadmium	0.19	0.04	MG/KG	B	
Chromium	2.2	0.09	MG/KG	E*	J
Lead	3.7	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB11912-12-96/14.0-14.5 (BKSB119)

Sample Depth: 14.0-14.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	0.66	0.37	MG/KG	B	
Barium	3	0.09	MG/KG		
Cadmium	0.06	0.04	MG/KG	B	
Chromium	2.1	0.09	MG/KG		
Lead	1.3	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB12012-12-96/19.0-20.0 (BKSB120)

Sample Depth: 19.0-20.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	0.44	0.35	MG/KG	B	
Barium	2	0.08	MG/KG		
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	0.93	0.08	MG/KG	B	
Lead	0.72	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	U	U
Silver	0.2	0.20	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB20112-12-96/0.0-1.0

(BKS201)

Sample Depth: 0.0-1.0 FT

Matrix: Soil

Field Sample Type: Field Duplicate

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.4	0.36	MG/KG		
Barium	17.9	0.09	MG/KG		
Cadmium	0.14	0.04	MG/KG	B	
Chromium	2.6	0.09	MG/KG		
Lead	5.9	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation
FH-BKG Fort Hood Background
Analytical Results

Station: SB107 Background Soil Boring SB107

Sample ID: FH000-SB12412-12-96/0.0-1.0 (BKSB124)

Sample Depth: 0.0-1.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	6	0.37	MG/KG		
Barium	19.3	0.09	MG/KG		
Cadmium	0.11	0.04	MG/KG	B	
Chromium	7.2	0.09	MG/KG		
Lead	4.5	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB12512-12-96/4.0-4.5 (BKSB125)

Sample Depth: 4.0-4.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.2	0.35	MG/KG		
Barium	18.1	0.09	MG/KG		
Cadmium	0.11	0.04	MG/KG	B	
Chromium	5.1	0.09	MG/KG		
Lead	1.7	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.36	0.32	MG/KG	B	
Silver	0.2	0.20	MG/KG	U	U

Sample ID: FH000-SB12612-12-96/5.5-6.0 (BKSB126)

Sample Depth: 5.5-6.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	2.5	0.36	MG/KG		
Barium	5.4	0.09	MG/KG		
Cadmium	0.06	0.04	MG/KG	B	
Chromium	5.5	0.09	MG/KG		
Lead	1.5	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.44	0.33	MG/KG	B	
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB20312-12-96/0.0-1.0 (BKSB203)

Sample Depth: 0.0-1.0 FT

Matrix: Soil

Field Sample Type: Field Duplicate

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	5.9	0.37	MG/KG		
Barium	39	0.09	MG/KG		
Cadmium	0.17	0.05	MG/KG	B	
Chromium	9.3	0.09	MG/KG		
Lead	6.6	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB108 Background Soil Boring SB108

Sample ID: FH000-SB135/01-14-97/0.0-1.0 (BKSB135)

Sample Depth: 0.0-1.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/14/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	2.7	0.36	MG/KG		
Barium	15.4	0.09	MG/KG	*	J
Cadmium	0.17	0.04	MG/KG	B*	J
Chromium	6.1	0.09	MG/KG		
Lead	2.5	0.15	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	1.5	1.5	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB136/01-14-97/5.0-5.5 (BKSB136)

Sample Depth: 5.0-5.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/14/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.3	0.38	MG/KG		
Barium	14.8	0.09	MG/KG	*	J
Cadmium	0.2	0.05	MG/KG	B*	J
Chromium	8.3	0.09	MG/KG		
Lead	3	0.16	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	UWN	R
Silver	0.22	0.22	MG/KG	U	U

Sample ID: FH000-SB137/01-14-97/9.0-9.5 (BKSB137)

Sample Depth: 9.0-9.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/14/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	8.2	0.36	MG/KG		
Barium	7.8	0.09	MG/KG	*	J
Cadmium	0.18	0.04	MG/KG	B*	J
Chromium	8.1	0.09	MG/KG		
Lead	2.3	0.15	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.31	0.31	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB138/01-14-97/14.0-14.5 (BKSB138)

Sample Depth: 14.0-14.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/14/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	9.2	0.38	MG/KG		
Barium	12.2	0.09	MG/KG	*	J
Cadmium	0.21	0.05	MG/KG	B*	J
Chromium	11.1	0.09	MG/KG		
Lead	4.1	0.16	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	UWN	R
Silver	0.22	0.22	MG/KG	U	U

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FH-BKG Fort Hood Background
Analytical Results

Sample ID: FH000-SB139/01-14-97/16.5-17.0 (BKSB139)
 Matrix: Soil

Sample Depth: 16.5-17.0 FT
 Field Sample Type: Grab

Collected: 01/14/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	7.6	0.37	MG/KG		
Barium	7.3	0.09	MG/KG	*	J
Cadmium	0.2	0.04	MG/KG	B*	J
Chromium	8.4	0.09	MG/KG		
Lead	3.6	0.16	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.31	0.31	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB109 Background Soil Boring SB109

Sample ID: FH000-SB140/01-15-97/0.0-1.0 (BKSB140)

Sample Depth: 0.0-1.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/15/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.8	0.41	MG/KG		
Barium	108	0.10	MG/KG	*	J
Cadmium	0.79	0.05	MG/KG	*	J
Chromium	16.1	0.10	MG/KG		
Lead	33.2	0.17	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	UWN	R
Silver	0.24	0.24	MG/KG	U	U

Sample ID: FH000-SB141/01-15-97/4.0-5.0 (BKSB141)

Sample Depth: 4.0-5.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/15/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	5.6	0.43	MG/KG		
Barium	127	0.10	MG/KG	*	J
Cadmium	0.45	0.05	MG/KG	B*	J
Chromium	23.6	0.10	MG/KG		
Lead	12.1	0.18	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	1.8	1.8	MG/KG	UN	R
Silver	0.25	0.25	MG/KG	U	U

Sample ID: FH000-SB142/01-15-97/9.0-10.0 (BKSB142)

Sample Depth: 9.0-10.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/15/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.8	0.44	MG/KG		
Barium	63	0.11	MG/KG	*	J
Cadmium	0.29	0.05	MG/KG	B*	J
Chromium	8.4	0.11	MG/KG		
Lead	5	0.19	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	1.9	1.9	MG/KG	UWN	R
Silver	0.25	0.25	MG/KG	U	U

Sample ID: FH000-SB143/01-15-97/14.5-15.0 (BKSB143)

Sample Depth: 14.5-15.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/15/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.8	0.41	MG/KG		
Barium	39.3	0.10	MG/KG	*	J
Cadmium	0.27	0.05	MG/KG	B*	J
Chromium	12.2	0.10	MG/KG		
Lead	6.6	0.17	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	UWN	R
Silver	0.24	0.24	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB144/01-15-97/19.0-19.3 (BKS144)

Sample Depth: 19.0-19.3 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/15/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.7	0.37	MG/KG		
Barium	36.1	0.09	MG/KG	*	J
Cadmium	0.2	0.04	MG/KG	B*	J
Chromium	6.5	0.09	MG/KG		
Lead	4	0.16	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.31	0.31	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U

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FH-BKG Fort Hood Background
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Station: SB110	Background Soil Boring SB110				
Sample ID: FH000-SB12712-13-96/0.0-1.0	(BKSB127)	Sample Depth: 0.0-1.0 FT			
Matrix: Soil		Field Sample Type: Grab		Collected: 12/13/96	
Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	1.9	0.36	MG/KG		
Barium	18.8	0.09	MG/KG		
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	3.7	0.09	MG/KG		
Lead	3.8	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U
Sample ID: FH000-SB12812-13-96/4.0-6.0	(BKSB128)	Sample Depth: 4.0-6.0 FT			
Matrix: Soil		Field Sample Type: Grab		Collected: 12/13/96	
Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.6	0.38	MG/KG		
Barium	36.3	0.09	MG/KG		
Cadmium	0.05	0.05	MG/KG	U	U
Chromium	8.5	0.09	MG/KG		
Lead	7.5	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG		
Selenium	0.35	0.35	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U
Sample ID: FH000-SB12912-13-96/10.0-11.0	(BKSB129)	Sample Depth: 10.0-11.0 FT			
Matrix: Soil		Field Sample Type: Grab		Collected: 12/13/96	
Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	2.6	0.36	MG/KG		
Barium	26.3	0.09	MG/KG		
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	4.6	0.09	MG/KG		
Lead	4.1	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U
Sample ID: FH000-SB13012-13-96/15.0-16.0	(BKSB130)	Sample Depth: 15.0-16.0 FT			
Matrix: Soil		Field Sample Type: Grab		Collected: 12/13/96	
Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	1	0.35	MG/KG	B	
Barium	8.1	0.08	MG/KG		
Cadmium	0.07	0.04	MG/KG	B	
Chromium	1.8	0.08	MG/KG		
Lead	3.1	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	U	U
Silver	0.2	0.20	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB13112-13-96/20.0-21.0 (BKSB131) Sample Depth: 20.0-21.0 FT
 Matrix: Soil Field Sample Type: Grab Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	5.3	0.38	MG/KG		
Barium	65.9	0.09	MG/KG		
Cadmium	0.15	0.05	MG/KG	B	
Chromium	7.7	0.09	MG/KG		
Lead	10.1	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

Sample ID: FH000-SB13212-13-96/25.0-26.0 (BKSB132) Sample Depth: 25.0-26.0 FT
 Matrix: Soil Field Sample Type: Grab Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.2	0.37	MG/KG		
Barium	41.7	0.09	MG/KG		
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	5.9	0.09	MG/KG		
Lead	7.8	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB13312-13-96/30.0-31.0 (BKSB133) Sample Depth: 30.0-31.0 FT
 Matrix: Soil Field Sample Type: Grab Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.2	0.39	MG/KG		
Barium	68.6	0.09	MG/KG		
Cadmium	0.11	0.05	MG/KG	B	
Chromium	4.9	0.09	MG/KG		
Lead	6.3	0.17	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

Sample ID: FH000-SB13412-13-96/34.0-34.5 (BKSB134) Sample Depth: 34.0-34.5 FT
 Matrix: Soil Field Sample Type: Grab Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	2.9	0.36	MG/KG		
Barium	20.1	0.09	MG/KG		
Cadmium	0.08	0.04	MG/KG	B	
Chromium	1.2	0.09	MG/KG		
Lead	2.3	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

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FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB20412-13-96/4.0-6.0 (BKS204)

Sample Depth: 4.0-6.0 FT

Matrix: Soil

Field Sample Type: Field Duplicate

Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.2	0.38	MG/KG		
Barium	31.9	0.09	MG/KG		
Cadmium	0.05	0.05	MG/KG	U	U
Chromium	6.5	0.09	MG/KG		
Lead	7.1	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

APPENDIX D

Fort Hood RFI Background Soil Boring Logs



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Boring FHBKG-SB101

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FHBKG : Background
Start Date : 12/10/96
End Date : 12/10/96
Northing Coord. : 3446458.08 m
Easting Coord. : 61375.50 m UTM 14 North
Total Depth of Boring : 18.5 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 15.0 feet
Depth Drilled Into Rock: 3.5 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 887.80ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS		
0					Topsoil. 0.0-0.5' bgs.; weathered tan limestone.	No sample recovery.		
1	887	CL			CLAY; weathered limestone fragments; damp; soft; moderately plastic; 10YR5/4 yellowish brown.	Sample BKS101 collected 2.0-2.5' bgs.		
2	886				Same as above; dry.			
3	885				Same as above; dry; more weathered limestone.	Description from soil cuttings.		
4	884							
5	883	CH			CLAY, fat; fewer fragments; damp; firm; highly plastic; mottled 10YR6/6 brownish yellow and 2.5Y7/1 light gray.	Sample BKS102 collected 4.0-4.7' bgs.		
6	882				Same CLAY as above; more silty; interbedded with weathered limestone; dry.	Description from soil cuttings.		
7	881							
8	880							
9	879	CL				Sample BKS103 collected 10.5-11.0' bgs.		
10	878				Same as above; dry.			
11	877				Silty CLAY; dry; firm; non-plastic; 10YR6/6 brownish yellow.			
12	876				Same as above; interbedded with tan weathered limestone; dry.			
13	875	LS				Description from soil cuttings.		
14	874							
15	873				LIMESTONE, weathered; dry; blue-gray.			
16	872							
17	871					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.		
18	870							
19	869				Bottom of Boring @ 18.5' bgs.			
20	868							



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Boring FHBKG-SB102

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FHBKG : Background
Start Date : 12/12/96
End Date : 12/12/96
Northing Coord. : 3446503.40 m
Easting Coord. : 613980.64 m UTM 14 North
Total Depth of Boring : 19.5 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 16.0 feet
Depth Drilled Into Rock: 3.5 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 912.28ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	912				Topsoil. 0.0-0.4' bgs.	Sample BKSB121, duplicate BKSB202, and split sample BKSB302 collected 0.0-0.5' bgs. Description from soil cuttings.
1	911	CL			Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; mottled 10YR5/3 brown and 10YR8/2 very pale brown.	
2	910				Same as above; dry.	
3	909					
4	908	CL			LIMESTONE, weathered, tan; and Silty Clay interbeds; dry.	
5	907					
6	906	CL			Zones of limestone and highly indurated silty clay (weathered limestone?); shell fragments; roots; dry; very hard; 2.5Y8/2 pale yellow.	
7	905					
8	904					
9	903					
10	902					
11	901					
12	900	LS			LIMESTONE, weathered; dry; blue-gray.	
13	899					
14	898					
15	897					
16	896	LS			Same as above; dry.	
17	895					
18	894					
19	893	LS			Same as above; dry.	
20						
					Bottom of Boring @ 19.5' bgs.	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.



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FHBKG : Background
Start Date : 12/10/96
End Date : 12/10/96
Northing Coord. : 3447405.80 m
Easting Coord. : 606690.49 m UTM 14 North
Total Depth of Boring : 17.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 15.0 feet
Depth Drilled Into Rock: 2.0 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 795.26ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	795				Topsoil. 0.0-0.2' bgs.; weathered tan limestone.	Sample BKSB104 collected 0.0-0.5' bgs.
1	794	CL			Interbedded Silty and pebbly CLAY; 40% coarse sand to pebble sized angular to subrounded fragments; dry; moderately plastic; thin layers of 10YR8/4 very pale brown and 10YR3/2 very dark grayish brown.	Description from soil cuttings.
2	793				Same as above; no pebbles; dry.	
3	792					
4	791				Same as above; weathered, tan limestone fragments; dry.	
5	790	CL			Same as above; interbeds of limestone; dry.	Sample BKSB105 collected 4.0-4.5' bgs.
6	789				Same as above; dry.	
7	788					
8	787					
9	786	CL			Same as above; dry.	Sample BKSB106 collected 9.0-9.5' bgs.
10	785					
11	784				Same as above; except more medium to coarse sand; dry; soft; non-plastic.	
12	783					
13	782				Same as above; dry.	Description from soil cuttings.
14	781	CL			Silty CLAY; weathered limestone fragments; damp; firm; moderately plastic; mottled 10YR8/2 very pale brown and 10YR6/4 light yellowish brown.	
15	780				LIMESTONE, weathered; dry; blue-gray.	
16	779	LS				
17	778				Bottom of Boring @ 17.0' bgs.	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
18	777					
19	776					
20						



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Boring FHBKG-SB104

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FHBKG : Background
Start Date : 12/11/96
End Date : 12/11/96
Northing Coord. : 3447780.16 m
Easting Coord. : 613523.75 m UTM 14 North
Total Depth of Boring : 24.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 24.0 feet
Depth Drilled Into Rock: NA
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 896.29	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	896				Topsoil. 0.0-1.0' bgs.; weathered tan limestone.	Sample BKS108 collected 0.0-1.0' bgs.
1	895				Silty CLAY; trace organics; weathered limestone fragments; damp; soft; low plasticity; 2.5Y7/6 yellow.	Description from soil cuttings.
2	894				Same as above.	
3	893				Same as above; no organics; dry; 10YR7/8 yellow mottle.	
4	892				Same as above; slightly more silty; dry; hard; brittle.	
5	891	CL				Sample BKS109 collected 4.0-5.0' bgs.
6	890					Description from soil cuttings.
7	889					
8	888					Description from soil cuttings. Hard drilling.
9	887				LIMESTONE, weathered; tan.	
10	886	LS			weathered limestone as above.	
11	885				Silty CLAY as above; dry.	Sample BKS110 collected 11.0-11.5' bgs.
12	884	CL			Same as above; dry.	Geotechnical sample collected 12.0-13.0' bgs.
13	883				Silty CLAY and weathered LIMESTONE interbeds.	
14	882					Description from soil cuttings.
15	881	CL				
16	880					
17	879					Sample BKS111 collected 18.0-18.5' bgs.
18	878	CL			Silty CLAY as above; dry.	
19	877				Silty CLAY and weathered LIMESTONE interbeds.	Description from soil cuttings.
20	876					
21	875	CL				
22	874					Same as above; dry.
23	873				Blue-gray weathered limestone fragments; dry.	
24	872	LS			Bottom of Boring at 24.0' bgs.	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
25						



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Boring FHBKG-SB105

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FHBKG : Background
Start Date : 12/11/96
End Date : 12/11/96
Northing Coord. : Not
Easting Coord. : Surveyed
Total Depth of Boring : 24.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 24.0 feet
Depth Drilled Into Rock: NA
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	0	GP			GRAVEL (graded area).	
1	-1	CL			Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; 2.5Y6/4 light yellowish brown.	Sample BKSB112 collected 1.0-1.5' bgs.
2	-2				Same as above; dry.	Description from soil cuttings.
3	-3	CH			CLAY, fat; dry; firm; highly plastic; mottled 2.5Y6/4 light yellowish brown and 10YR6/6 brownish yellow.	Sample BKSB113 collected 4.0-5.0' bgs.
4	-4				Silty CLAY and LIMESTONE interbeds; dry; firm; 2.5Y6/4 light yellowish brown.	
5	-5	CL				
6	-6					
7	-7					
8	-8					
9	-9	CL				
10	-10				Same as above; dry.	
11	-11				Same as above; dry; moderately plastic.	Sample BKSB114 collected 11.0-12.0' bgs.
12	-12				Same as above; dry.	Description from soil cuttings.
13	-13	CL				
14	-14					
15	-15				Same as above; more silt; dry; hard; brittle; non-plastic.	Sample BKSB115 collected 15.0-15.5' bgs.
16	-16				Same as above with weathered limestone interbeds.	
17	-17	CL				
18	-18					Description from soil cuttings.
19	-19					
20	-20					
21	-21	CL				
22	-22				Same as above; dry.	Sample BKSB116 collected 22.0-22.5' bgs.
23	-23				Blue-gray weathered limestone; dry; hard drilling to 24.0'.	
24	-24				Bottom of Boring at 24.0' bgs.	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
25		LS				



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Fort Worth District
Fort Worth, Texas

Boring FHBKG-SB106

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FHBKG : Background
Start Date : 12/12/96
End Date : 12/12/96
Northing Coord. : Not
Easting Coord. : Surveyed
Total Depth of Boring : 25.5 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 25.5 feet
Depth Drilled Into Rock: NA
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	0	CL			Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; mottled 2.5Y7/6 yellow and 10YR6/6 brownish yellow.	Sample BKSB117 collected 0.0-1.0' bgs.
1	-1				Same as above; dry.	Geotechnical sample collected 3.0-4.0' bgs.
2	-2				Same as above with weathered limestone interbeds.	Description from soil cuttings.
3	-3				Same as above with trace sand; dry.	
4	-4	CL				
5	-5					
6	-6					
7	-7	SM			Silty SAND, fine; dry; non-plastic; carbonate (HCL fizz); 2.5Y8/4 pale yellow.	Sample BKSB118 collected 9.0-9.5' bgs.
8	-8				Same as above; dry.	
9	-9				Same as above except color change to 19YR8/2 very pale brown.	
10	-10				Same as above SAND, fine; except no silt.	Sample BKSB119 collected 14.0-14.5' bgs.
11	-11	SP				Description from soil cuttings.
12	-12				Same as above; dry.	
13	-13					
14	-14	SW			SAND, fine; dry; soft; non-carbonate; 2.5Y8/4 pale yellow.	Sample BKSB120 collected 19.0-20.0' bgs.
15	-15				Same as above; dry.	
16	-16	LS			LIMESTONE, weathered; dry; tan.	Description from soil cuttings.
17	-17					
18	-18				Blue-gray weathered limestone; dry. Bottom of Boring at 25.5' bgs.	
19	-19					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
20	-20					
21	-21					
22	-22					
23	-23					
24	-24					
25	-25					
26	-26					
27	-27					
28	-28					
29	-29					
30						



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Boring FHBKG-SB107

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FHBKG : Background
Start Date : 12/12/96
End Date : 12/12/96
Northing Coord. : 3438421.71 m
Easting Coord. : 612222.83 m UTM 14 North
Total Depth of Boring : 6.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 1.7 feet
Depth Drilled Into Rock: 4.3 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	0					
1	-1	CL			Silty CLAY; weathered limestone fragments; dry; hard; non-plastic; mottled 10YR6/8 brownish yellow and 10YR6/2 light brownish gray.	Sample BKSB124 collected 0.0-1.0' bgs.
2	-2				LIMESTONE, weathered, fossiliferous; Blue-Gray; 2.5Y6/1 gray.	
3	-3					Description from soil cuttings.
4	-4	LS			Same as above	Sample BKSB125 collected 4.0-4.5' bgs.
5	-5					Description from soil cuttings.
6	-6				Same as above	Sample BKSB126 collected 5.5-6.0' bgs.
6	-6				Bottom of Boring at 6.0' bgs.	
7	-7					
8	-8					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
9	-9					
10						



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Boring FHBKG-SB108

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FHBKG : Background
Start Date : 01/14/97
End Date : 01/14/97
Northing Coord. : Not
Easting Coord. : Surveyed
Total Depth of Boring : 17.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 15.0 feet
Depth Drilled Into Rock: 2.0 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	0				Topsoil 0.0-0.4'	Sample BKSB135 collected 0.0-1.0' bgs.
1	-1				Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; 10YR6/8 brownish yellow.	
2	-2				Same as above; dry.	Description from soil cuttings.
3	-3				Same as above; dry; mottled with 2.5Y7/3 pale yellow.	Sample BKSB136 collected 5.0-5.5' bgs.
4	-4				Same as above; dry.	Description from soil cuttings.
5	-5				Same as above; dry.	Sample BKSB137 collected 9.0-9.5' bgs.
6	-6				Same as above; dry.	Description from soil cuttings.
7	-7				Same as above; dry.	Sample BKSB138 collected 14.0-14.5' bgs.
8	-8	CL			Same as above; less silty; dry.	
9	-9				Same as above; dry.	
10	-10				LIMESTONE, weathered; blue-gray.	Sample BKSB139 collected 16.5-17.0' bgs.
11	-11				Same as above; dry.	
12	-12				Bottom of Boring at 17.0' bgs.	
13	-13					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
14	-14					
15	-15					
16	-16	LS				
17	-17					
18	-18					
19	-19					
20	-20					



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Boring FHBKG-SB109

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FHBKG : Background
Start Date : 01/15/97
End Date : 01/15/97
Northing Coord. : 3471041.79 m
Easting Coord. : 626015.26 m UTM 14 North
Total Depth of Boring : 24.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : Not Encountered
Depth Drilled Into Rock: NA
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 730.62ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0					Silty CLAY; trace roots; trace rock fragments <1cm, angular to subrounded; damp; highly plastic; 5YR2.5/1 black.	Sample BKSB140 collected 0.0-1.0' bgs.
1	730	CL			Same as above; damp.	Description from soil cuttings. Sample BKSB141 collected 4.0-5.0' bgs.
2	729				Same as above; damp.	
3	728					
4	727				Same as above; damp.	
5	726					
6	725					
7	724	CL			Silty CLAY; trace weathered limestone fragments; dry; stiff; non-plastic; 7.5YR6/4 light brown.	Description from soil cuttings. Sample BKSB142 collected 9.0-10.0' bgs. Sample BKSB143 collected 14.5-15.0' bgs. Description from soil cuttings. Sample BKSB144 collected 19.0-19.3' bgs. Description from soil cuttings.
8	723				Some sand, fine, from 8-9' bgs.	
9	722				Same as above; dry.	
10	721					
11	720				Same as above except rock fragments (mostly weathered limestone) up to 20% of total matrix.	
12	719					
13	718				Same as above; dry.	
14	717					
15	716				Same as above; with limestone fragments up to 40%; also 10% fine sand; dry.	
16	715					
17	714				Same as above; dry.	
18	713					
19	712	Same as above; dry.				
20	711					
21	710					
22	709	Same as above; dry.				
23	708					
24	707	SM			Silty SAND, fine to medium; moist; soft; moderately plastic; 7.5Y6/8 reddish yellow and 7.5 YR7/1 light gray.	Water in hole, attempted sample, no recovery in gravel at 24'
25	706	GP			Bottom of boring at 24.0' bgs. GRAVEL, angular; saturated	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.



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FHBKG : Background
Start Date : 12/13/96
End Date : 12/13/96
Northing Coord. : 3472081.13 m
Easting Coord. : 626432.83 m UTM 14 North
Total Depth of Boring : 34.5 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : Not Encountered
Depth Drilled Into Rock: NA
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 729.66ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS			
0	729	SM			SAND, fine to medium; some silt; damp; soft; non-plastic; 7.5YR5/6 strong brown.	Sample BKS127 collected 0.0-1.0' bgs.			
1	728				Same as above; damp to moist.				
2	727	SC			Clayey SAND; damp; firm; moderately plastic; 2.5YR4/6 red.	Sample BKS128 collected 4.0-6.0' bgs.			
3	726				Same as above; damp.				
4	725				Same as above; damp.				
5	724				Same as above; damp.				
6	723				Same as above; damp.				
7	722				Same as above; damp.				
8	721				Same as above; damp.				
9	720				Same as above; slightly less clay; dry.				
10	719				Same as above; dry.				
11	718				Same as above; less clay; dry; color change 5YR5/6 yellowish red.				
12	717	CL			Same as above; dry.	Sample BKS130 collected 15.0-16.0' bgs.			
13	716				Same as above; dry;				
14	715				Same as above; more clay; dry.				
15	714				Silty CLAY; trace sand; trace tan weathered limestone fragments; dry; hard; 7.5YR6/6 reddish yellow.	Sample BKS131 collected 20.0-21.0' bgs.			
16	713				Same as above; dry.				
17	712				Same as above; dry.				
18	711				Same as above; dry.				
19	710				Same as above; with more silt; moist; softer.				
20	709				Same as above; except very silty; damp; soft.	Sample BKS132 collected 25.0-26.0' bgs.			
21	708				SM GW	 		Silty SAND, fine; trace gravel and coarse sand at bottom; saturated; non-plastic; 7.5Y6/6 reddish yellow.	Sample BKS133 collected 30.0-31.0' bgs.
22	707	SAND, coarse, and GRAVEL, poorly sorted, angular to round; saturated; 1.5 water in hole.							
23	706		Bottom of boring at 34.5' bgs.						
24	705								
25	704								
26	703								
27	702								
28	701								
29	700								
30	699								
31	698								
32	697								
33	696								
34	695								
35	694								
36	693								
37	692								
38	691								
39	690								
40	690								

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Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.

APPENDIX E

Statistical Calculations

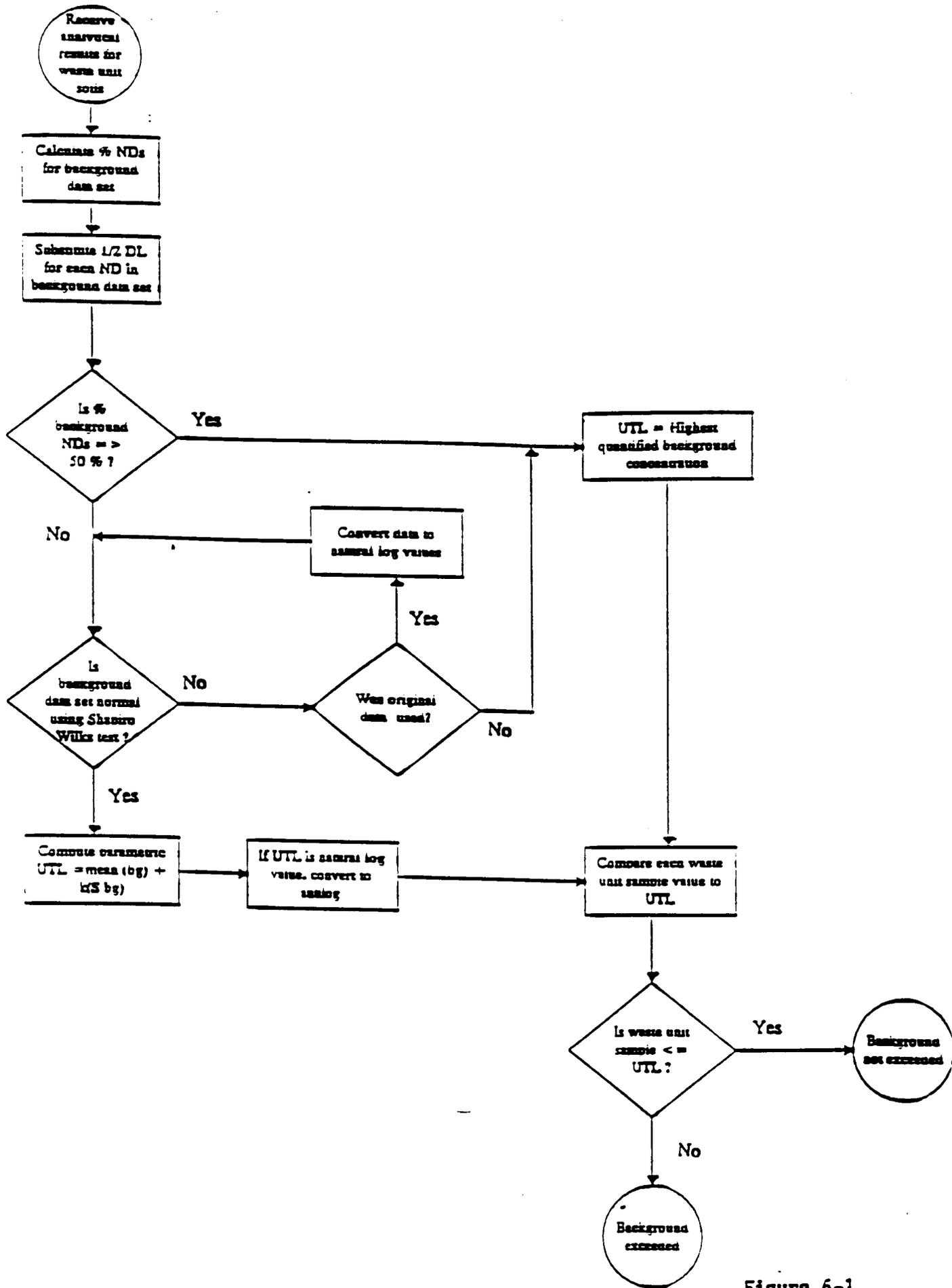


Figure 6-1
 95% Upper Tolerance Limit
 RFI Work Plan for 35 SW
 Fort Hood, Texas

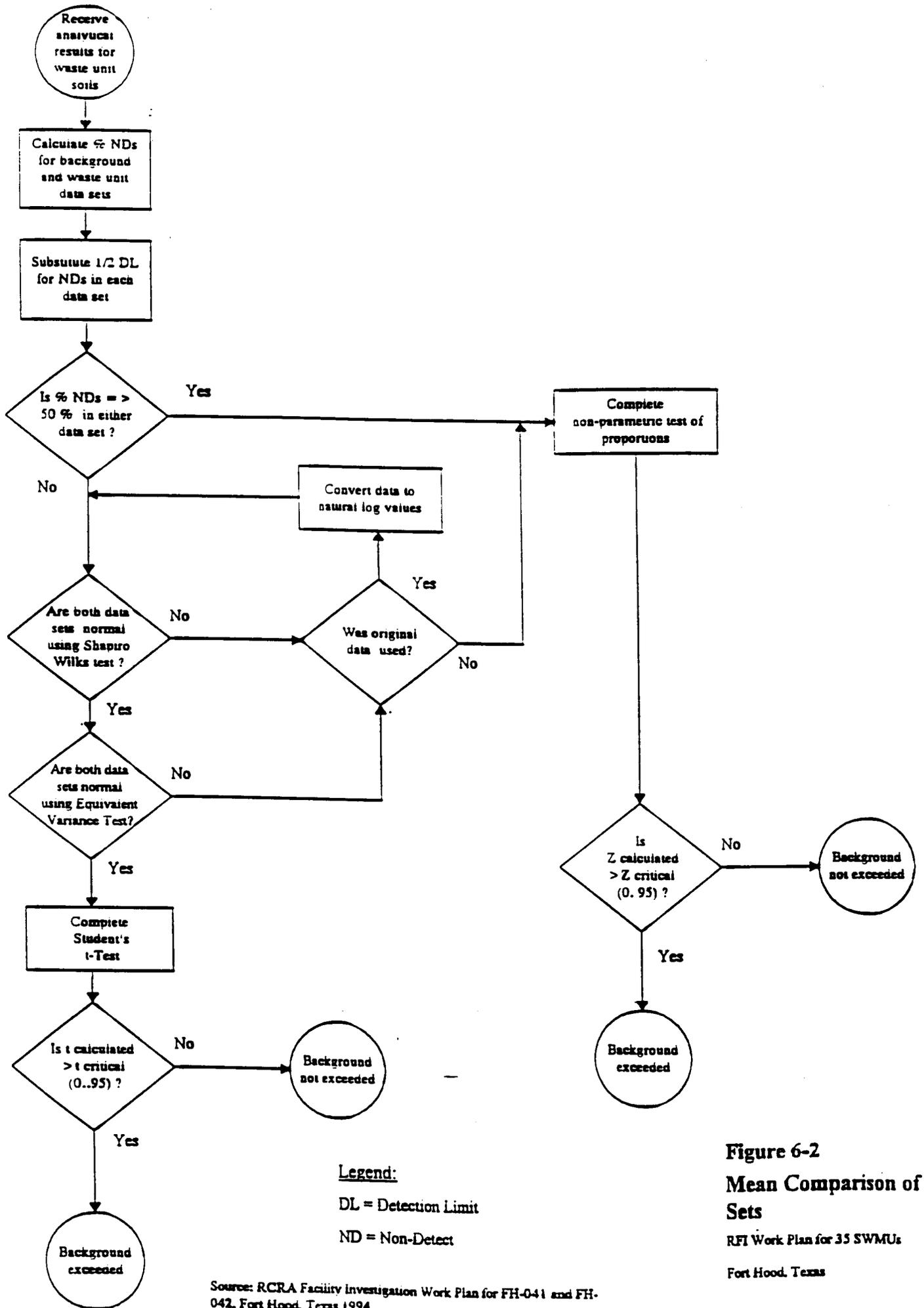


Figure 6-2
Mean Comparison of Sets
 RFI Work Plan for 35 SWMUs
 Fort Hood, Texas

Source: RCRA Facility Investigation Work Plan for FH-041 and FH-042, Fort Hood, Texas 1994.

95% UTLs

Soil Background 95% UTLs NO DUPLICATES						
smp_id	Mercury		Arsenic	Barium		
	Result (x)	Qual	Result (x)	Result	Qual	Ln(x)
BKSB101	0.04	U	3	21.3	J	3.05870707
BKSB102	0.04	U	2	8	J	2.07944154
BKSB103	0.04	U	9.1	14.7	J	2.68784749
BKSB105	0.04	U	4.3	23.4	J	3.15273602
BKSB106	0.04	U	4.4	43.7	J	3.7773481
BKSB107	0.04	U				
BKSB109	0.04	U	3.5	155	J	5.04342512
BKSB110	0.04	U	4.8	24.1	J	3.18221184
BKSB111	0.04	U	5.2	7.2	J	1.97408103
BKSB113	0.04	U	5.7	20.5	J	3.02042489
BKSB114	0.04	U	5.2	25.2	J	3.22684399
BKSB115	0.04	U	5.3	10.6	J	2.360854
BKSB116	0.04	U	11.6	4.9	J	1.58923521
BKSB118	0.04	U	2.6	4.4	J	1.48160454
BKSB119	0.04	U	0.66	3		1.09861229
BKSB120	0.04	U	0.44	2		0.69314718
BKSB122	0.04	U	3.2	6.1		1.80828877
BKSB123	0.04	U	3.8	5.5		1.70474809
BKSB125	0.04	U	3.2	18.1		2.89591194
BKSB126	0.04	U	2.5	5.4		1.68639895
BKSB128	0.04		3.6	36.3		3.59181774
BKSB129	0.04	U	2.6	26.3		3.26956894
BKSB130	0.04	U	1	8.1		2.09186406
BKSB131	0.04	U	5.3	65.9		4.18813844
BKSB132	0.04	U	4.2	41.7		3.73050113
BKSB133	0.04	U	3.2	68.6		4.22829253
BKSB134	0.04	U	2.9	20.1		3.00071982
BKSB136	0.04	U	4.3	14.8	J	2.69462718
BKSB137	0.04	U	8.2	7.8	J	2.05412373
BKSB138	0.04	U	9.2	12.2	J	2.50143595
BKSB139	0.04	U	7.6	7.3	J	1.98787435
BKSB141	0.04	U	5.6	127	J	4.84418709
BKSB142	0.04	U	3.8	63	J	4.14313473
BKSB143	0.04	U	3.8	39.3	J	3.67122452
BKSB144	0.04	U	3.7	36.1	J	3.58629287
BKSB104	0.04	U	6.2	28.2	J	3.33932198
BKSB108	0.04	U	6	72.4	J	4.2822063
BKSB112	0.04	U	1.6	6.6	J	1.88706965
BKSB117	0.04	U	4.4	27.9	J	3.32862669
BKSB121	0.04	U	4.1	24		3.17805383
BKSB124	0.04	U	6	19.3		2.9601051
BKSB127	0.04	U	1.9	18.8		2.93385687
BKSB135	0.04	U	2.7	15.4	J	2.73436751
BKSB140	0.04	U	4.8	108	J	4.68213123
%nondetects=	0.04	0.95744681			0	
Distribution	D		N			L
Mean	0.04		4.35348837	30.1906977		2.91700954
std dev	0		2.29920368	33.4734423		1.01859487
n	44		43	43		43
K	2.097		2.102	2.102		2.102
UTL	0.04		9.1864145	100.55187		5.058096
UTL(ln)=exp(mean + K(std d						157.29074

95% UTLs

Soil Background							
smp_id	Cadmium				Chromium		
	Result (x)	Qual	1/2 nondetects	Ln(x)	Result (x)	Qual	Ln(x)
BKSB101	0.12		0.12	-2.1202635	5.1	J	1.62924054
BKSB102	0.05		0.05	-2.9957323	10.3	J	2.3321439
BKSB103	0.05	U	0.025	-3.6888795	10.1	J	2.31253542
BKSB105	0.11		0.11	-2.2072749	4	J	1.38629436
BKSB106	0.16		0.16	-1.8325815	7.6	J	2.02814825
BKSB107	0.35		0.35	-1.0498221	5.1	J	1.62924054
BKSB109	0.07		0.07	-2.65926	6.5	J	1.87180218
BKSB110	0.06		0.06	-2.8134107	16.6	J	2.8094027
BKSB111	0.05		0.05	-2.9957323	6.2	J	1.82454929
BKSB113	0.07		0.07	-2.65926	8.9	J	2.18605128
BKSB114	0.05	U	0.025	-3.6888795	20.3	J	3.01062089
BKSB115	0.06		0.06	-2.8134107	7.3	J	1.98787435
BKSB116	0.2		0.2	-1.6094379	2.7	J	0.99325177
BKSB118	0.19		0.19	-1.6607312	2.2	J	0.78845736
BKSB119	0.06		0.06	-2.8134107	2.1		0.74193734
BKSB120	0.04	U	0.02	-3.912023	0.93		-0.0725707
BKSB122	0.06		0.06	-2.8134107	4.9		1.58923521
BKSB123	0.08		0.08	-2.5257286	4.3		1.45861502
BKSB125	0.11		0.11	-2.2072749	5.1		1.62924054
BKSB126	0.06		0.06	-2.8134107	5.5		1.70474809
BKSB128	0.05	U	0.025	-3.6888795	8.5		2.14006616
BKSB129	0.04	U	0.02	-3.912023	4.6		1.5260563
BKSB130	0.07		0.07	-2.65926	1.8		0.58778666
BKSB131	0.15		0.15	-1.89712	7.7		2.04122033
BKSB132	0.04	U	0.02	-3.912023	5.9		1.77495235
BKSB133	0.11		0.11	-2.2072749	4.9		1.58923521
BKSB134	0.08		0.08	-2.5257286	1.2		0.18232156
BKSB136	0.2	J	0.2	-1.6094379	8.3		2.11625551
BKSB137	0.18	J	0.18	-1.7147984	8.1		2.09186406
BKSB138	0.21	J	0.21	-1.5606477	11.1		2.40694511
BKSB139	0.2	J	0.2	-1.6094379	8.4		2.12823171
BKSB141	0.45	J	0.45	-0.7985077	23.6		3.16124671
BKSB142	0.29	J	0.29	-1.2378744	8.4		2.12823171
BKSB143	0.27	J	0.27	-1.3093333	12.2		2.50143595
BKSB144	0.2	J	0.2	-1.6094379	6.5		1.87180218
BKSB104	0.15		0.15	-1.89712	3.1	J	1.13140211
BKSB108	0.2		0.2	-1.6094379	12.9	J	2.55722731
BKSB112	0.04	U	0.02	-3.912023	4	J	1.38629436
BKSB117	0.18		0.18	-1.7147984	5.7	J	1.74046617
BKSB121	0.18		0.18	-1.7147984	6.3		1.84054963
BKSB124	0.11		0.11	-2.2072749	7.2		1.97408103
BKSB127	0.04	U	0.02	-3.912023	3.7		1.30833282
BKSB135	0.17	J	0.17	-1.7719568	6.1		1.80828877
BKSB140	0.79	J	0.79	-0.2357223	16.1		2.77881927
%nondetects=		0.19148936				0	
Distribution				L			L
Mean	0.14545455			-2.343338	7.31886364		1.78668026
std dev	0.13475999			0.92656476	4.7817999		0.68062712
n	44			44	44		44
K	2.097			2.097	2.097		2.097
UTL	0.4280462			-0.400332	17.346298		3.2139553
UTL(ln)=exp(me				0.6700977			24.87729

95% UTLs

Soil Background	Lead		Selenium		Silver		
smp_id	Result (x)	Qual	Ln(x)	Result (x)	Qual	Result (x)	Qual
BKSB101	6	J	1.79175947	0.37	U	0.24	U
BKSB102	5	J	1.60943791	0.36	U	0.23	U
BKSB103	9.5	J	2.2512918	0.38	U	0.24	U
BKSB105	3.9	J	1.36097655	0.33	U	0.21	U
BKSB106	5	J	1.60943791	0.33	U	0.21	U
BKSB107	6.1	J	1.80828877	0.36	U	0.23	U
BKSB109	3.2	J	1.16315081	0.34	U	0.22	U
BKSB110	7.8	J	2.05412373	0.36	U	0.23	U
BKSB111	5.3	J	1.66770682	0.35	U	0.22	U
BKSB113	6	J	1.79175947	0.36	U	0.23	U
BKSB114	7.7	J	2.04122033	0.38	U	0.24	U
BKSB115	5.1	J	1.62924054	0.32	U	0.2	U
BKSB116	5.6	J	1.7227666	0.33	U	0.21	U
BKSB118	3.7	J	1.30833282	0.34	U	0.21	U
BKSB119	1.3	J	0.26236426	0.33	U	0.21	U
BKSB120	0.72	J	-0.3285041	0.32	U	0.2	U
BKSB122	4.1	J	1.41098697	0.33	U	0.21	U
BKSB123	3.8	J	1.33500107	0.33	U	0.21	U
BKSB125	1.7	J	0.53062825	0.36		0.2	U
BKSB126	1.5	J	0.40546511	0.44		0.21	U
BKSB128	7.5	J	2.01490302	0.35	U	0.22	U
BKSB129	4.1	J	1.41098697	0.33	U	0.21	U
BKSB130	3.1	J	1.13140211	0.32	U	0.2	U
BKSB131	10.1	J	2.31253542	0.34	U	0.22	U
BKSB132	7.8	J	2.05412373	0.34	U	0.21	U
BKSB133	6.3	J	1.84054963	0.35	U	0.22	U
BKSB134	2.3	J	0.83290912	0.33	U	0.21	U
BKSB136	3	J	1.09861229	0.32	R	0.22	U
BKSB137	2.3	J	0.83290912	0.31	R	0.21	U
BKSB138	4.1	J	1.41098697	0.32	R	0.22	U
BKSB139	3.6	J	1.28093385	0.31	R	0.21	U
BKSB141	12.1	J	2.49320545	1.8	R	0.25	U
BKSB142	5	J	1.60943791	1.9	R	0.25	U
BKSB143	6.6	J	1.88706965	0.35	R	0.24	U
BKSB144	4	J	1.38629436	0.31	R	0.21	U
BKSB104	5.3	J	1.66770682	0.32	U	0.2	U
BKSB108	9.8	J	2.28238239	0.37	U	0.23	U
BKSB112	1.5	J	0.40546511	0.32	U	0.2	U
BKSB117	8.3	J	2.11625551	0.33	U	0.21	U
BKSB121	10.2	J	2.32238772	0.34	U	0.22	U
BKSB124	4.5	J	1.5040774	0.34	U	0.21	U
BKSB127	3.8	J	1.33500107	0.33	U	0.21	U
BKSB135	2.5	J	0.91629073	1.5	R	0.21	U
BKSB140	33.2	J	3.50254988	0.35	R	0.24	U
%nondetects=		0					
Distribution			L	D		D	
Mean	5.77318182		1.52441844	—	0.345	0.21795455	
std dev	4.99838289		0.67810106	0.02427744		0.01390659	
n	44		44				
K	2.097		2.097				
UTL	16.254791		2.9463964				
UTL(ln)=exp(me			19.037227				

Shapiro Wilk for Barium

	Bkgd Conc (xi) (mg/kg)	Ordered Conc. x(i)	Reverse Ordered x(n-i+1)	Difference x(n- i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	21.3	2	155	153	0.3894	59.5782
BKSB102	8	3	127	124	0.2684	33.2816
BKSB103	14.7	4.4	108	103.6	0.2334	24.18024
BKSB105	23.4	4.9	72.4	67.5	0.2078	14.0265
BKSB106	43.7	5.4	68.6	63.2	0.1871	11.82472
BKSB107		5.5	65.9	60.4	0.1695	10.2378
BKSB109	155	6.1	63	56.9	0.1539	8.75691
BKSB110	24.1	6.6	43.7	37.1	0.1398	5.18658
BKSB111	7.2	7.2	41.7	34.5	0.1269	4.37805
BKSB113	20.5	7.3	39.3	32	0.1149	3.6768
BKSB114	25.2	7.8	36.3	28.5	0.1035	2.94975
BKSB115	10.6	8	36.1	28.1	0.0927	2.60487
BKSB116	4.9	8.1	28.2	20.1	0.0824	1.65624
BKSB118	4.4	10.6	27.9	17.3	0.0724	1.25252
BKSB119	3	12.2	26.3	14.1	0.0628	0.88548
BKSB120	2	14.7	25.2	10.5	0.0534	0.5607
BKSB122	6.1	14.8	24.1	9.3	0.0442	0.41106
BKSB123	5.5	15.4	24	8.6	0.0352	0.30272
BKSB125	18.1	18.1	23.4	5.3	0.0263	0.13939
BKSB126	5.4	18.8	21.3	2.5	0.0175	0.04375
BKSB128	36.3	19.3	20.5	1.2	0.0087	0.01044
BKSB129	26.3	20.1	20.1	0	0	0
BKSB130	8.1	20.5	19.3	-1.2		0
BKSB131	65.9	21.3	18.8	-2.5		0
BKSB132	41.7	23.4	18.1	-5.3		
BKSB133	68.6	24	15.4	-8.6	sum Bi=	185.94432
BKSB134	20.1	24.1	14.8	-9.3		
BKSB136	14.8	25.2	14.7	-10.5	W(0.05,43)	0.943
BKSB137	7.8	26.3	12.2	-14.1	W=	0.73470973
BKSB138	12.2	27.9	10.6	-17.3		
BKSB139	7.3	28.2	8.1	-20.1		
BKSB141	127	36.1	8	-28.1		
BKSB142	63	36.3	7.8	-28.5		
BKSB143	39.3	39.3	7.3	-32		
BKSB144	36.1	41.7	7.2	-34.5		
BKSB104	28.2	43.7	6.6	-37.1		
BKSB108	72.4	63	6.1	-56.9		
BKSB112	6.6	65.9	5.5	-60.4		
BKSB117	27.9	68.6	5.4	-63.2		
BKSB121	24	72.4	4.9	-67.5		
BKSB124	19.3	108	4.4	-103.6		
BKSB127	18.8	127	3	-124		
BKSB135	15.4	155	2	-153		
BKSB140	108			0		
Sum of xi	1298.2					
Mean	30.19069767					
n=	43					
sum of xi^2	86253.36					
1/n=	0.023255814					
xi=(sum xi)^2	1685323.24					
d=	47059.79628					
W=	0.734709728					
W(0.05,43)=	0.943					
W<W(0.5,43), distribution is not Normal						

Shapiro Wilk for Barium

	ln of ordered Conc. x(i)		ln of Reverse Order x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
	0.693147181	0.48045301	5.043425117	4.35027794	0.3894	1.693998228
	1.098612289	1.20694896	4.844187086	3.7455748	0.2684	1.005312276
	1.481604541	2.19515202	4.682131227	3.20052669	0.2334	0.747002929
	1.589235205	2.52566854	4.282206299	2.69297109	0.2078	0.559599393
	1.686398954	2.84394143	4.228292535	2.54189358	0.1871	0.475588289
	1.704748092	2.90616606	4.188138442	2.48339035	0.1695	0.420934664
	1.808288771	3.26990828	4.143134726	2.33484596	0.1539	0.359332793
	1.887069649	3.56103186	3.777348102	1.89027845	0.1398	0.264260928
	1.974081026	3.8969959	3.730501129	1.7564201	0.1269	0.222889711
	1.987874348	3.95164442	3.671224519	1.68335017	0.1149	0.193416935
	2.054123734	4.21942431	3.591817741	1.53769401	0.1035	0.15915133
	2.079441542	4.32407713	3.586292865	1.50685132	0.0927	0.139685118
	2.091864062	4.37589525	3.339321978	1.24745792	0.0824	0.102790532
	2.360854001	5.57363161	3.328626689	0.96777269	0.0724	0.070066743
	2.501435952	6.25718182	3.269568939	0.76813299	0.0628	0.048238752
	2.687847494	7.22452415	3.226843995	0.5389965	0.0534	0.028782413
	2.694627181	7.26101564	3.18221184	0.48758466	0.0442	0.021551242
	2.734367509	7.47676568	3.17805383	0.44368632	0.0352	0.015617758
	2.895911938	8.38630595	3.152736022	0.25682408	0.0263	0.006754473
	2.93385687	8.60751613	3.058707073	0.1248502	0.0175	0.002184879
	2.960105096	8.76222218	3.020424886	0.06031979	0.0087	0.000524782
	3.000719815	9.00431941	3.000719815	0		0
	3.020424886	9.12296649	2.960105096	-0.0603198		0
	3.058707073	9.35568896	2.93385687	-0.1248502		0
	3.152736022	9.93974443	2.895911938	-0.2568241		
	3.17805383	10.1000261	2.734367509	-0.4436863		6.537684167
	3.18221184	10.1264722	2.694627181	-0.4875847		
	3.226843995	10.4125222	2.687847494	-0.5389965	W(0.05,43)	0.943
	3.269568939	10.690081	2.501435952	-0.768133	W(ln)=	0.98083423
	3.328626689	11.0797556	2.360854001	-0.9677727		
	3.339321978	11.1510713	2.091864062	-1.2474579		
	3.586292865	12.8614965	2.079441542	-1.5068513		
	3.591817741	12.9011547	2.054123734	-1.537694		
	3.671224519	13.4778895	1.987874348	-1.6833502		
	3.730501129	13.9166387	1.974081026	-1.7564201		
	3.777348102	14.2683587	1.887069649	-1.8902785		
	4.143134726	17.1655654	1.808288771	-2.334846		
	4.188138442	17.5405036	1.704748092	-2.4833903		
	4.228292535	17.8784578	1.686398954	-2.5418936		
	4.282206299	18.3372908	1.589235205	-2.6929711		
	4.682131227	21.9223528	1.481604541	-3.2005267		
	4.844187086	23.4661485	1.098612289	-3.7455748		
	5.043425117	25.4361369	0.693147181	-4.3502779		
Sum of xi	125.4314103		125.4314103			
Mean	2.917009542					
n=	43					
sum of xi^2	409.4611119					
1/n=	0.023255814					
xi=(sum xi)^	15733.03869					
d=	43.57649126					
W(ln)=	0.98083423					
W(0.05,43)	0.943					
W>W(0.5,43), distribution is lognormal						

Shapiro Wilk for Cadmium

smp_id	Cadmium	(xi) ²	Ordered Conc. x(i)	Reverse Ordered x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)	smp_id
BKSB101	0.12	0.0144	0.02	0.79	0.77	0.3872	0.298144	BKSB101
BKSB102	0.05	0.0025	0.02	0.45	0.43	0.2667	0.114681	BKSB102
BKSB103	0.025	0.00063	0.02	0.35	0.33	0.2323	0.076659	BKSB103
BKSB104	0.15	0.0225	0.02	0.29	0.27	0.2072	0.055944	BKSB104
BKSB105	0.11	0.0121	0.02	0.27	0.25	0.1868	0.0467	BKSB105
BKSB106	0.16	0.0256	0.025	0.21	0.185	0.1695	0.031358	BKSB106
BKSB107	0.35	0.1225	0.025	0.2	0.175	0.1542	0.026985	BKSB107
BKSB108	0.2	0.04	0.025	0.2	0.175	0.1405	0.024588	BKSB108
BKSB109	0.07	0.0049	0.05	0.2	0.15	0.1278	0.01917	BKSB109
BKSB110	0.06	0.0036	0.05	0.2	0.15	0.116	0.0174	BKSB110
BKSB111	0.05	0.0025	0.06	0.2	0.14	0.1049	0.014686	BKSB111
BKSB112	0.02	0.0004	0.06	0.19	0.13	0.0943	0.012259	BKSB112
BKSB113	0.07	0.0049	0.06	0.18	0.12	0.0842	0.010104	BKSB113
BKSB114	0.025	0.00063	0.06	0.18	0.12	0.0745	0.00894	BKSB114
BKSB115	0.06	0.0036	0.06	0.18	0.12	0.0651	0.007812	BKSB115
BKSB116	0.2	0.04	0.07	0.17	0.1	0.056	0.0056	BKSB116
BKSB117	0.18	0.0324	0.07	0.16	0.09	0.0471	0.004239	BKSB117
BKSB118	0.19	0.0361	0.07	0.15	0.08	0.0383	0.003064	BKSB118
BKSB119	0.06	0.0036	0.08	0.15	0.07	0.0296	0.002072	BKSB119
BKSB120	0.02	0.0004	0.08	0.12	0.04	0.0211	0.000844	BKSB120
BKSB121	0.18	0.0324	0.11	0.11	0	0.0126	0	BKSB121
BKSB122	0.06	0.0036	0.11	0.11	0	0.0042	0	BKSB122
BKSB123	0.08	0.0064	0.11	0.11	0	0	0	BKSB123
BKSB124	0.11	0.0121	0.11	0.11	0	0	0	BKSB124
BKSB125	0.11	0.0121	0.12	0.08	-0.04			BKSB125
BKSB126	0.06	0.0036	0.15	0.08	-0.07	Sum of b=	0.781248	BKSB126
BKSB127	0.02	0.0004	0.15	0.07	-0.08			BKSB127
BKSB128	0.025	0.00063	0.16	0.07	-0.09	W=	0.744801	BKSB128
BKSB129	0.02	0.0004	0.17	0.07	-0.1	W(0.05,44)	0.944	BKSB129
BKSB130	0.07	0.0049	0.18	0.06	-0.12			BKSB130
BKSB131	0.15	0.0225	0.18	0.06	-0.12			BKSB131
BKSB132	0.02	0.0004	0.18	0.06	-0.12			BKSB132
BKSB133	0.11	0.0121	0.19	0.06	-0.13			BKSB133
BKSB134	0.08	0.0064	0.2	0.06	-0.14			BKSB134
BKSB135	0.17	0.0289	0.2	0.05	-0.15			BKSB135
BKSB136	0.2	0.04	0.2	0.05	-0.15			BKSB136
BKSB137	0.18	0.00063	0.2	0.025	-0.175			BKSB137
BKSB138	0.21	0.0225	0.2	0.025	-0.175			BKSB138
BKSB139	0.2	0.0121	0.21	0.025	-0.185			BKSB139
BKSB140	0.79	0.0256	0.27	0.02	-0.25			BKSB140
BKSB141	0.45	0.1225	0.29	0.02	-0.27			BKSB141
BKSB142	0.29	0.04	0.35	0.02	-0.33			BKSB142
BKSB143	0.27	0.0049	0.45	0.02	-0.43			BKSB143
BKSB144	0.2	0.0036	0.79	0.02	-0.77			BKSB144
Sum of xi	6.225							Sum of xi
Mean	0.14147727							Mean
n=	44							n=
sum of xi ²	1.700175							sum of xi ²
1/n=	0.02272727							1/n=
xi=(sum xi) ²	38.750625							xi=(sum xi) ²
d=	0.81947898							d=
W=	0.7448006							W=
W(0.05,44)=	0.944							W(0.05,44)=
W<W(0.5,44), the distribution is not normal								W<W(0.5,44),

Shapiro Wilk for Cadmium

ln of ordered Conc. x(i)	ln(xi)^2	ln of Reverse Order x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
-3.912023005	15.303924	-0.2357223	3.67630067	0.3872	1.42346362
-3.912023005	15.303924	-0.7985077	3.11351531	0.2667	0.83037453
-3.912023005	15.303924	-1.0498221	2.86220088	0.2323	0.66488926
-3.912023005	15.303924	-1.2378744	2.67414865	0.2072	0.5540836
-3.912023005	15.303924	-1.3093333	2.60268969	0.1868	0.48618243
-3.688879454	13.607832	-1.5606477	2.12823171	0.1695	0.36073527
-3.688879454	13.607832	-1.6094379	2.07944154	0.1542	0.32064989
-3.688879454	13.607832	-1.6094379	2.07944154	0.1405	0.29216154
-2.995732274	8.9744119	-1.6094379	1.38629436	0.1278	0.17716842
-2.995732274	8.9744119	-1.6094379	1.38629436	0.116	0.16081015
-2.813410717	7.9152799	-1.6094379	1.2039728	0.1049	0.12629675
-2.813410717	7.9152799	-1.6607312	1.15267951	0.0943	0.10869768
-2.813410717	7.9152799	-1.7147984	1.09861229	0.0842	0.09250315
-2.813410717	7.9152799	-1.7147984	1.09861229	0.0745	0.08184662
-2.813410717	7.9152799	-1.7147984	1.09861229	0.0651	0.07151966
-2.659260037	7.0716639	-1.7719568	0.8873032	0.056	0.04968898
-2.659260037	7.0716639	-1.8325815	0.82667857	0.0471	0.03893656
-2.659260037	7.0716639	-1.89712	0.76214005	0.0383	0.02918996
-2.525728644	6.3793052	-1.89712	0.62860866	0.0296	0.01860682
-2.525728644	6.3793052	-2.1202635	0.40546511	0.0211	0.00855531
-2.207274913	4.8720625	-2.2072749	0	0.0126	0
-2.207274913	4.8720625	-2.2072749	0	0.0042	0
-2.207274913	4.8720625	-2.2072749	0	0	0
-2.207274913	4.8720625	-2.2072749	0	0	0
-2.120263536	4.4955175	-2.5257286	-0.40546511		
-1.897119985	3.5990642	-2.5257286	-0.62860866	Sum of b=	5.8963602
-1.897119985	3.5990642	-2.65926	-0.76214005		
-1.832581464	3.3583548	-2.65926	-0.82667857	W=	0.94177684
-1.771956842	3.139831	-2.65926	-0.8873032	W(0.05,44)	0.944
-1.714798428	2.9405336	-2.8134107	-1.09861229		
-1.714798428	2.9405336	-2.8134107	-1.09861229		
-1.660731207	2.7580281	-2.8134107	-1.15267951		
-1.609437912	2.5902904	-2.8134107	-1.2039728		
-1.609437912	2.5902904	-2.9957323	-1.38629436		
-1.609437912	2.5902904	-2.9957323	-1.38629436		
-1.609437912	2.5902904	-3.6888795	-2.07944154		
-1.609437912	2.5902904	-3.6888795	-2.07944154		
-1.560647748	2.4356214	-3.6888795	-2.12823171		
-1.30933332	1.7143537	-3.912023	-2.60268969		
-1.237874356	1.5323329	-3.912023	-2.67414865		
-1.049822124	1.1021265	-3.912023	-2.86220088		
-0.798507696	0.6376145	-3.912023	-3.11351531		
-0.235722334	0.055565	-3.912023	-3.67630067		
-103.106874					
-2.343338046					
44					
278.5307172					
0.022727273					
10631.02747					
36.91645655					
0.941776836					
0.944					
The distribution is approximately lognormal					

Shapiro Wilk Chromium

smp_id	Chromium	Ordered Conc. x(i)	Reverse Ordered x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	5.1	0.93	23.6	22.67	0.3872	8.777824
BKSB102	10.3	1.2	20.3	19.1	0.2667	5.09397
BKSB103	10.1	1.8	16.6	14.8	0.2323	3.43804
BKSB104	3.1	2.1	16.1	14	0.2072	2.9008
BKSB105	4	2.2	12.9	10.7	0.1868	1.99876
BKSB106	7.6	2.7	12.2	9.5	0.1695	1.61025
BKSB107	5.1	3.1	11.1	8	0.1542	1.2336
BKSB108	12.9	3.7	10.3	6.6	0.1405	0.9273
BKSB109	6.5	4	10.1	6.1	0.1278	0.77958
BKSB110	16.6	4	8.9	4.9	0.116	0.5684
BKSB111	6.2	4.3	8.5	4.2	0.1049	0.44058
BKSB112	4	4.6	8.4	3.8	0.0943	0.35834
BKSB113	8.9	4.9	8.4	3.5	0.0842	0.2947
BKSB114	20.3	4.9	8.30	3.4	0.0745	0.2533
BKSB115	7.3	5.1	8.1	3	0.0651	0.1953
BKSB116	2.7	5.1	7.7	2.6	0.056	0.1456
BKSB117	5.7	5.1	7.6	2.5	0.0471	0.11775
BKSB118	2.2	5.5	7.3	1.8	0.0383	0.06894
BKSB119	2.1	5.7	7.2	1.5	0.0296	0.0444
BKSB120	0.93	5.9	6.5	0.6	0.0211	0.01266
BKSB121	6.3	6.1	6.5	0.4	0.0126	0.00504
BKSB122	4.9	6.2	6.3	0.1	0.0042	0.00042
BKSB123	4.3	6.3	6.2	-0.1	0	0
BKSB124	7.2	6.5	6.1	-0.4	0.0037	-0.00148
BKSB125	5.1	6.5	5.9	-0.6	Sum of b=	29.264074
BKSB126	5.5	7.2	5.7	-1.5		
BKSB127	3.7	7.3	5.5	-1.8	W=	0.87100033
BKSB128	8.5	7.6	5.1	-2.5	W(0.05,45)	0.945
BKSB129	4.6	7.7	5.1	-2.6		
BKSB130	1.8	8.1	5.1	-3		
BKSB131	7.7	8.30	4.9	-3.4		
BKSB132	5.9	8.4	4.9	-3.5		
BKSB133	4.9	8.4	4.6	-3.8		
BKSB134	1.2	8.5	4.3	-4.2		
BKSB135	6.1	8.9	4	-4.9		
BKSB136	8.30	10.1	4	-6.1		
BKSB137	8.1	10.3	3.7	-6.6		
BKSB138	11.1	11.1	3.1	-8		
BKSB139	8.4	12.2	2.7	-9.5		
BKSB140	16.1	12.9	2.2	-10.7		
BKSB141	23.6	16.1	2.1	-14		
BKSB142	8.4	16.6	1.8	-14.8		
BKSB143	12.2	20.3	1.2	-19.1		
BKSB144	6.5	23.6	0.93	-22.67		
Sum of x _i	322.03					
Mean	7.31886364					
n=	44					
sum of x _i ²	3340.1149					
1/n=	0.02272727					
x _i -(sum x _i) ²	103703.321					
d=	983.221243					
W=	0.87100033					
W(0.05,44)=	0.944					
W<W(0.5,45), the distribution is not normal						

Shapiro Wilk Chromium

smpl_id	ln of ordered Conc. x(i)	ln(xi)^2	ln of Reverse Order x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	-0.07257069	0.00526651	3.161246712	3.2338174	0.3872	1.2521341
BKSB102	0.182321557	0.03324115	3.010620886	2.82829933	0.2667	0.75430743
BKSB103	0.587786665	0.34549316	2.809402695	2.22161603	0.2323	0.5160814
BKSB104	0.741937345	0.55047102	2.778819272	2.03688193	0.2072	0.42204194
BKSB105	0.78845736	0.62166501	2.557227311	1.76876995	0.1868	0.33040623
BKSB106	0.993251773	0.98654908	2.501435952	1.50818418	0.1695	0.25563722
BKSB107	1.131402111	1.28007074	2.406945108	1.275543	0.1542	0.19668873
BKSB108	1.30833282	1.71173477	2.332143895	1.02381108	0.1405	0.14384546
BKSB109	1.386294361	1.92181206	2.312535424	0.92624106	0.1278	0.11837361
BKSB110	1.386294361	1.92181206	2.186051277	0.79975692	0.116	0.0927718
BKSB111	1.458615023	2.12755778	2.140066163	0.68145114	0.1049	0.07148422
BKSB112	1.526056303	2.32884784	2.128231706	0.6021754	0.0943	0.05678514
BKSB113	1.589235205	2.52566854	2.128231706	0.5389965	0.0842	0.04538351
BKSB114	1.589235205	2.52566854	2.116255515	0.52702031	0.0745	0.03926301
BKSB115	1.62924054	2.65442474	2.091864062	0.46262352	0.0651	0.03011679
BKSB116	1.62924054	2.65442474	2.041220329	0.41197979	0.056	0.02307087
BKSB117	1.62924054	2.65442474	2.028148247	0.39890771	0.0471	0.01878855
BKSB118	1.704748092	2.90616606	1.987874348	0.28312626	0.0383	0.01084374
BKSB119	1.740466175	3.02922251	1.974081026	0.23361485	0.0296	0.006915
BKSB120	1.774952351	3.15045585	1.871802177	0.09684983	0.0211	0.00204353
BKSB121	1.808288771	3.26990828	1.871802177	0.06351341	0.0126	0.00080027
BKSB122	1.824549292	3.32898012	1.840549633	0.01600034	0.0042	6.7201E-05
BKSB123	1.840549633	3.38762295	1.824549292	-0.0160003	0	0
BKSB124	1.871802177	3.50364339	1.808288771	-0.0635134		0
BKSB125	1.871802177	3.50364339	1.774952351	-0.0968498	Sum of b=	4.38784974
BKSB126	1.974081026	3.8969959	1.740466175	-0.2336149		
BKSB127	1.987874348	3.95164442	1.704748092	-0.2831263	W=	0.96653268
BKSB128	2.028148247	4.11338531	1.62924054	-0.3989077	W(0.05,45)	0.945
BKSB129	2.041220329	4.16658043	1.62924054	-0.4119798		
BKSB130	2.091864062	4.37589525	1.62924054	-0.4626235		
BKSB131	2.116255515	4.4785374	1.589235205	-0.5270203		
BKSB132	2.128231706	4.52937019	1.589235205	-0.5389965		
BKSB133	2.128231706	4.52937019	1.526056303	-0.6021754		
BKSB134	2.140066163	4.57988318	1.458615023	-0.6814511		
BKSB135	2.186051277	4.77882018	1.386294361	-0.7997569		
BKSB136	2.312535424	5.34782009	1.386294361	-0.9262411		
BKSB137	2.332143895	5.79338475	1.30833282	-1.0238111		
BKSB138	2.406945108	6.25718182	1.131402111	-1.275543		
BKSB139	2.501435952	6.53941152	0.993251773	-1.5081842		
BKSB140	2.557227311	7.72183655	0.78845736	-1.76877		
BKSB141	2.778819272	7.8927435	0.741937345	-2.0368819		
BKSB142	2.809402695	9.06383812	0.587786665	-2.221616		
BKSB143	3.010620886	9.99348077	0.182321557	-2.8282993		
BKSB144	3.161246712	#REF!	-0.072570693	-3.2338174		
Sum of x _i	78.61393132					
Mean	1.786680257					
n=	44					
sum of x _i ²	160.3778498					
1/n=	0.022727273					
x _i =(sum xi) [^]	6180.150197					
d=	19.91989073					
W=	0.96653268					
W(0.05,44)	0.944					
W>W(0.5,44), the distribution is lognormal						

Shapiro Wilk for Lead

smpl_id	Lead	Ordered Conc. x(i)	Reverse Ordered x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	6	0.72	33.2	32.48	0.3872	12.57626
BKSB102	5	1.3	12.1	10.8	0.2667	2.88036
BKSB103	9.5	1.5	10.2	8.7	0.2323	2.02101
BKSB104	5.3	1.5	10.1	8.6	0.2072	1.78192
BKSB105	3.9	1.7	9.8	8.1	0.1868	1.51308
BKSB106	5	2.3	9.5	7.2	0.1695	1.2204
BKSB107	6.1	2.3	8.3	6	0.1542	0.9252
BKSB108	9.8	2.5	7.8	5.3	0.1405	0.74465
BKSB109	3.2	3.00	7.8	4.8	0.1278	0.61344
BKSB110	7.8	3.1	7.7	4.6	0.116	0.5336
BKSB111	5.3	3.2	7.5	4.3	0.1049	0.45107
BKSB112	1.5	3.6	6.6	3	0.0943	0.2829
BKSB113	6	3.7	6.3	2.6	0.0842	0.21892
BKSB114	7.7	3.8	6.1	2.3	0.0745	0.17135
BKSB115	5.1	3.8	6	2.2	0.0651	0.14322
BKSB116	5.6	3.9	6	2.1	0.056	0.1176
BKSB117	8.3	4	5.6	1.6	0.0471	0.07536
BKSB118	3.7	4.1	5.3	1.2	0.0383	0.04596
BKSB119	1.3	4.1	5.3	1.2	0.0296	0.03552
BKSB120	0.72	4.1	5.1	1	0.0211	0.0211
BKSB121	10.2	4.5	5	0.5	0.0126	0.0063
BKSB122	4.1	5	5	0	0.0042	0
BKSB123	3.8	5	5	0	0	0
BKSB124	4.5	5	4.5	-0.5		0
BKSB125	1.7	5.1	4.1	-1		
BKSB126	1.5	5.3	4.1	-1.2	Sum of b=	26.37922
BKSB127	3.8	5.3	4.1	-1.2		
BKSB128	7.5	5.6	4	-1.6	W=	0.647733
BKSB129	4.1	6	3.9	-2.1	W(0.05,45)	0.945
BKSB130	3.1	6	3.8	-2.2		
BKSB131	10.1	6.1	3.8	-2.3		
BKSB132	7.8	6.3	3.7	-2.6		
BKSB133	6.3	6.6	3.6	-3		
BKSB134	2.3	7.5	3.2	-4.3		
BKSB135	2.5	7.7	3.1	-4.6		
BKSB136	3.00	7.8	3.00	-4.8		
BKSB137	2.3	7.8	2.5	-5.3		
BKSB138	4.1	8.3	2.3	-6		
BKSB139	3.6	9.5	2.3	-7.2		
BKSB140	33.2	9.8	1.7	-8.1		
BKSB141	12.1	10.1	1.5	-8.6		
BKSB142	5	10.2	1.5	-8.7		
BKSB143	6.6	12.1	1.3	-10.8		
BKSB144	4	33.2	0.72	-32.48		
Sum of xi	254.02					
Mean	5.773182					
n=	44					
sum of xi^2	2540.808					
1/n=	0.022727					
xi=(sum xi)^2	64526.16					
d=	1074.305					
W=	0.647733					
W(0.05,44)=	0.944					
W<W(0.5,44), the distribution is not normal						

Shapiro Wilk for Lead

smpl_id	ln of ordered Conc. x(i)	ln(xi)^2	ln of Reverse Order x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	-0.328504067	0.107914922	3.502549876	3.83105394	0.3872	1.48338409
BKSB102	0.262364264	0.068835007	2.493205453	2.23084119	0.2667	0.59496534
BKSB103	0.405465108	0.164401954	2.32238772	1.91692261	0.2323	0.44530112
BKSB104	0.405465108	0.164401954	2.312535424	1.90707032	0.2072	0.39514497
BKSB105	0.530628251	0.281566341	2.282382386	1.75175413	0.1868	0.32722767
BKSB106	0.832909123	0.693737607	2.251291799	1.41838268	0.1695	0.24041586
BKSB107	0.832909123	0.693737607	2.116255515	1.28334639	0.1542	0.19789201
BKSB108	0.916290732	0.839588705	2.054123734	1.137833	0.1405	0.15986554
BKSB109	1.098612289	1.206948961	2.054123734	0.95551145	0.1278	0.12211436
BKSB110	1.131402111	1.280070738	2.041220329	0.90981822	0.116	0.10553891
BKSB111	1.16315081	1.352919806	2.014903021	0.85175221	0.1049	0.08934881
BKSB112	1.280933845	1.640791516	1.887069649	0.6061358	0.0943	0.05715861
BKSB113	1.30833282	1.711734767	1.840549633	0.53221681	0.0842	0.04481266
BKSB114	1.335001067	1.782227848	1.808288771	0.4732877	0.0745	0.03525993
BKSB115	1.335001067	1.782227848	1.791759469	0.4567584	0.0651	0.02973497
BKSB116	1.360976553	1.852257178	1.791759469	0.43078292	0.056	0.02412384
BKSB117	1.386294361	1.921812056	1.722766598	0.33647224	0.0471	0.01584784
BKSB118	1.410986974	1.99088424	1.667706821	0.25671985	0.0383	0.00983237
BKSB119	1.410986974	1.99088424	1.667706821	0.25671985	0.0296	0.00759891
BKSB120	1.410986974	1.99088424	1.62924054	0.21825357	0.0211	0.00460515
BKSB121	1.504077397	2.262248815	1.609437912	0.10536052	0.0126	0.00132754
BKSB122	1.609437912	2.590290394	1.609437912	0	0.0042	0
BKSB123	1.609437912	2.590290394	1.609437912	0		0
BKSB124	1.609437912	2.590290394	1.504077397	-0.10536052		0
BKSB125	1.62924054	2.654424736	1.410986974	-0.21825357		
BKSB126	1.667706821	2.781246039	1.410986974	-0.25671985	Sum of b=	4.39150052
BKSB127	1.667706821	2.781246039	1.410986974	-0.25671985		
BKSB128	1.722766598	2.96792475	1.386294361	-0.33647224	W(ln)=	0.97536815
BKSB129	1.791759469	3.210401996	1.360976553	-0.43078292		
BKSB130	1.791759469	3.210401996	1.335001067	-0.4567584	W(0.05,44)	0.944
BKSB131	1.808288771	3.26990828	1.335001067	-0.4732877		
BKSB132	1.840549633	3.387622953	1.30833282	-0.53221681		
BKSB133	1.887069649	3.56103186	1.280933845	-0.6061358		
BKSB134	2.014903021	4.059834182	1.16315081	-0.85175221		
BKSB135	2.041220329	4.166580431	1.131402111	-0.90981822		
BKSB136	2.054123734	4.219424313	1.098612289	-0.95551145		
BKSB137	2.054123734	4.219424313	0.916290732	-1.137833		
BKSB138	2.116255515	4.478537404	0.832909123	-1.28334639		
BKSB139	2.251291799	5.068314762	0.832909123	-1.41838268		
BKSB140	2.282382386	5.209269354	0.530628251	-1.75175413		
BKSB141	2.312535424	5.347820087	0.405465108	-1.90707032		
BKSB142	2.32238772	5.393484723	0.405465108	-1.91692261		
BKSB143	2.493205453	6.216073429	0.262364264	-2.23084119		
BKSB144	3.502549876	12.26785563	-0.328504067	-3.83105394		
Sum of xi	67.07441138					
Mean	1.52441844					
n=	44					
sum of xi^2	122.0217748					
1/n=	0.022727273					
xi=(sum xi)^2	4498.976662					
d=	19.77230523					
W(ln)=	0.975368151					
W(0.05,44)=	0.944					
W>W(0.5,44), the distribution is lognormal						

Shapiro Wilk for Arsenic

smp_id	Arsenic				a(n-i+1)	b(i)
BKSB101	3	0.44	11.6	11.16	0.3894	4.345704
BKSB102	2	0.66	9.2	8.54	0.2684	2.292136
BKSB103	9.1	1	9.1	8.1	0.2334	1.89054
BKSB104	6.2	1.6	8.2	6.6	0.2078	1.37148
BKSB105	4.3	1.9	7.6	5.7	0.1871	1.06647
BKSB106	4.4	2	6.2	4.2	0.1695	0.7119
BKSB108	6	2.5	6	3.5	0.1539	0.53865
BKSB109	3.5	2.6	6	3.4	0.1398	0.47532
BKSB110	4.8	2.6	5.7	3.1	0.1269	0.39339
BKSB111	5.2	2.7	5.6	2.9	0.1149	0.33321
BKSB112	1.6	2.9	5.3	2.4	0.1035	0.2484
BKSB113	5.7	3	5.3	2.3	0.0927	0.21321
BKSB114	5.2	3.2	5.2	2	0.0824	0.1648
BKSB115	5.3	3.2	5.2	2	0.0724	0.1448
BKSB116	11.6	3.2	4.8	1.6	0.0628	0.10048
BKSB117	4.4	3.5	4.8	1.3	0.0534	0.06942
BKSB118	2.6	3.6	4.4	0.8	0.0442	0.03536
BKSB119	0.66	3.7	4.4	0.7	0.0352	0.02464
BKSB120	0.44	3.8	4.3	0.5	0.0263	0.01315
BKSB121	4.1	3.8	4.30	0.5	0.0175	0.00875
BKSB122	3.2	3.8	4.2	0.4	0.0087	0.00348
BKSB123	3.8	4.1	4.1	0	0	0
BKSB124	6	4.2	3.8	-0.4		
BKSB125	3.2	4.3	3.8	-0.5		
BKSB126	2.5	4.30	3.8	-0.5	sum Bi=	14.44529
BKSB127	1.9	4.4	3.7	-0.7		
BKSB128	3.6	4.4	3.6	-0.8	W(0.05,43)	0.943
BKSB129	2.6	4.8	3.5	-1.3	W=	0.939827935
BKSB130	1	4.8	3.2	-1.6		
BKSB131	5.3	5.2	3.2	-2		
BKSB132	4.2	5.2	3.2	-2		
BKSB133	3.2	5.3	3	-2.3		
BKSB134	2.9	5.3	2.9	-2.4		
BKSB135	2.7	5.6	2.7	-2.9		
BKSB136	4.30	5.7	2.6	-3.1		
BKSB137	8.2	6	2.6	-3.4		
BKSB138	9.2	6	2.5	-3.5		
BKSB139	7.6	6.2	2	-4.2		
BKSB140	4.8	7.6	1.9	-5.7		
BKSB141	5.6	8.2	1.6	-6.6		
BKSB142	3.8	9.1	1	-8.1		
BKSB143	3.8	9.2	0.66	-8.54		
BKSB144	3.7	11.6	0.44	-11.16		
Sum of xi	187.2					
Mean	4.3534884					
n=	43					
sum of xi^2	1036.9992					
1/n=	0.0232558					
xi=(sum xi)^2	35043.84					
d=	222.02618					
W=	0.9398279					
W(0.05,43)=	0.943					
W<W(0.5,43), the distribution is approximately normal						

Shapiro Wilk for Arsenic

	ln of ordered Conc. x(i)		ln of Reverse Order x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
	-0.820980552	0.674009067	2.451005098	3.27198565	0.3894	1.27411121
	-0.415515444	0.172653084	2.219203484	2.63471893	0.2684	0.70715856
	0	0	2.208274414	2.20827441	0.2334	0.51541125
	0.470003629	0.220903412	2.104134154	1.63413053	0.2078	0.33957232
	0.641853886	0.411976411	2.028148247	1.38629436	0.1871	0.25937567
	0.693147181	0.480453014	1.824549292	1.13140211	0.1695	0.19177266
	0.916290732	0.839588705	1.791759469	0.87546874	0.1539	0.13473464
	0.955511445	0.913002122	1.791759469	0.83624802	0.1398	0.11690747
	0.955511445	0.913002122	1.740466175	0.78495473	0.1269	0.09961076
	0.993251773	0.986549085	1.722766598	0.72951482	0.1149	0.08382125
	1.064710737	1.133608953	1.667706821	0.60299608	0.1035	0.06241009
	1.098612289	1.206948961	1.667706821	0.56909453	0.0927	0.05275506
	1.16315081	1.352919806	1.648658626	0.48550782	0.0824	0.04000584
	1.16315081	2.781246039	1.648658626	0.48550782	0.0724	0.03515077
	1.16315081	6.007425991	1.568615918	0.40546511	0.0628	0.02546321
	1.252762968	2.195152016	1.568615918	0.31585295	0.0534	0.01686655
	1.280933845	0.913002122	1.481604541	0.2006707	0.0442	0.00886964
	1.30833282	0.172653084	1.481604541	0.17327172	0.0352	0.00609916
	1.335001067	0.674009067	1.458615023	0.12361396	0.0263	0.00325105
	1.335001067	1.99088424	1.458615023	0.12361396	0.0175	0.00216324
	1.335001067	1.352919806	1.435084525	0.10008346	0.0087	0.00087073
	1.410986974	1.782227848	1.410986974	0		0
	1.435084525	3.210401996	1.335001067	-0.1000835		0
	1.458615023	1.352919806	1.335001067	-0.123614		0
	1.458615023	0.839588705	1.335001067	-0.123614		
	1.481604541	0.411976411	1.30833282	-0.1732717		3.97638115
	1.481604541	1.640791516	1.280933845	-0.2006707		
	1.568615918	0.913002122	1.252762968	-0.3158529	W(0.05,43)	0.943
	1.568615918	0	1.16315081	-0.4054651	W(ln)=	0.91061638
	1.648658626	2.781246039	1.16315081	-0.4855078		
	1.648658626	2.059467595	1.16315081	-0.4855078		
	1.667706821	1.352919806	1.098612289	-0.5690945		
	1.667706821	1.133608953	1.064710737	-0.6029961		
	1.722766598	0.986549085	0.993251773	-0.7295148		
	1.740466175	2.127557784	0.955511445	-0.7849547		
	1.791759469	4.427380539	0.955511445	-0.836248		
	1.791759469	4.924864104	0.916290732	-0.8754687		
	1.824549292	4.113385313	0.693147181	-1.1314021		
	2.028148247	2.460555898	0.641853886	-1.3862944		
	2.104134154	2.96792475	0.470003629	-1.6341305		
	2.208274414	1.782227848	0	-2.2082744		
	2.219203484	1.782227848	-0.415515444	-2.6347189		
	2.451005098	1.711734767	-0.820980552	-3.2719857		
Sum of xi	56.26742214		56.26742214			
Mean	1.308544701					
n=	43					
sum of xi^2	90.99206827					
1/n=	0.023255814					
xi=(sum xi)^2	3166.022794					
d=	17.3636312					
W=	0.910616383					
W(0.05,43)=	0.943					
W<W(0.5,43), the distribution is not lognormal						

APPENDIX F

FH-021 Screening Results

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-021 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units	
TR101E	21TR101	0.0-8.0	Arsenic	3.2	0.4	mg/kg	Soil Background	9.2	mg/kg	
			Barium	81.5	0.08	mg/kg	Soil Background	157.3	mg/kg	
			Cadmium	0.62	0.06	mg/kg	Soil Background	0.67	mg/kg	
			Chromium	12.3	0.09	mg/kg	Soil Background	24.9	mg/kg	
			Lead	23	0.23	mg/kg	Soil Background	19	mg/kg	
	FHGW164	--	Arsenic	0.0048	0.0021	mg/l	30 TAC 335 Groundwater	0.05	mg/l	
			Barium	0.314	0.0003	mg/l	30 TAC 335 Groundwater	2.0	mg/l	
			Selenium	0.0082 J	0.0022	mg/l	30 TAC 335 Groundwater	0.05	mg/l	
	TR101W	21TR104	0.0-8.0	Arsenic	3.3	0.36	mg/kg	Soil Background	9.2	mg/kg
				Barium	58.9	0.07	mg/kg	Soil Background	157.3	mg/kg
Cadmium				0.21	0.06	mg/kg	Soil Background	0.67	mg/kg	
Chromium				8.9	0.08	mg/kg	Soil Background	24.9	mg/kg	
Lead				7.2	0.21	mg/kg	Soil Background	19	mg/kg	
Acetone				0.008	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg	
Trichloroethene				0.016	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	0.5	mg/kg	
TR102E	21TR103	0.0-8.0	Arsenic	5.5	0.39	mg/kg	Soil Background	9.2	mg/kg	
			Barium	58.3	0.08	mg/kg	Soil Background	157.3	mg/kg	
			Cadmium	0.29	0.06	mg/kg	Soil Background	0.67	mg/kg	
			Chromium	10.5	0.09	mg/kg	Soil Background	24.9	mg/kg	

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-021 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units	
TR102E	21TR103	0.0-8.0	Lead	11.9	0.23	mg/kg	Soil Background	19	mg/kg	
			Acetone	0.007	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg	
			Trichloroethene	0.008	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	0.5	mg/kg	
TR102W	21TR102	0.0-8.0	Arsenic	2.9	0.39	mg/kg	Soil Background	9.2	mg/kg	
			Barium	64.2	0.08	mg/kg	Soil Background	157.3	mg/kg	
			Cadmium	0.11	0.06	mg/kg	Soil Background	0.67	mg/kg	
			Chromium	12.3	0.09	mg/kg	Soil Background	24.9	mg/kg	
			Lead	10.6	0.23	mg/kg	Soil Background	19	mg/kg	
			Naphthalene	0.01	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	409	mg/kg	
	FHGW165	--		Arsenic	0.0038	0.0021	mg/l	30 TAC 335 Groundwater	0.05	mg/l
				Barium	0.232	0.0003	mg/l	30 TAC 335 Groundwater	2.0	mg/l
				Lead	0.0035	0.0009	mg/l	30 TAC 335 Groundwater	0.015	mg/l
				Naphthalene	0.019	0.005	mg/l	30 TAC 335 Groundwater	1.46	mg/l