Final

Site Investigation Report
Former Gas Mask Test Chambers,
Parcels 195(7), 196(7), and 198(7)

Fort McClellan
Calhoun County, Alabama

Prepared for:

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Task Order CK05
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See Attachment 1 - List of Abbreviations and Acronyms.

Executive Summary

In accordance with Contract Number DACA21-96-D-0018, Task Order CK05, IT Corporation completed a site investigation (SI) at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), at Fort McClellan in Calhoun County, Alabama. The SI was conducted to determine whether chemical constituents are present at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7) and, if present, whether the concentrations would present an unacceptable risk to human health or the environment. The SI at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), consisted of the sampling and analyses of four surface soil samples and four subsurface soil samples.

The analytical results indicate that metals, volatile organic compounds (VOC), and semivolatile organic compounds (SVOC) were detected in the environmental media sampled. To evaluate whether the detected constituents present an unacceptable risk to human health or the environment the analytical results were compared to human health site-specific screening levels (SSSL), ecological screening values (ESV), and background screening values.

The potential impact to human receptors is expected to be minimal. The metals that exceeded residential human health SSSLs were within background concentrations or the range of background values, and thus, do not pose an unacceptable risk to future human receptors. VOC and SVOC concentrations were below residential human health SSSLs. However, based on the physical reactions of the field personnel during sampling activities at Parcel 195(7), apparent tear gas compounds are present possibly in soils or building walls at the site. Because of the problems encountered by field personnel, a tentatively identified compound library search for chloroacetophenone/chloroacetophenone, chloropicrin, and chloroform compounds was performed on the soil samples. Chloroacetophenone/chloroacetophenone, chloropicrin, and chloroform compounds were not identified in the tentatively identified compound search.

The potential impact to ecological receptors is expected to be minimal. The metals that exceeded ESVs were within background concentrations or the range of background values. VOC and SVOC concentrations in surface soils were below ESVs. Consequently, the threat to potential ecological receptors is expected to be minimal.

The Former Gas Mask Test Chambers, Parcel 195(7) and a small segment of Parcel 198(7), are scheduled to be transferred to the Alabama National Guard for continued use as a gas mask training area. The Former Gas Mask Test Chambers, Parcel 196(7) and the remainder of Parcel 198(7), are scheduled to be transferred to the Joint Powers Authority. Provided that Parcel 195(7) and the small segment of Parcel 198(7) remain under the control of the Alabama National Guard, and are used in the manner historically used, IT Corporation recommends no further action at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7). If the land-use scenario changes, the no further action recommendation at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), will need to be reevaluated.

1.0 Introduction

The U.S. Army has selected Fort McClellan (FTMC), located in Calhoun County, Alabama, for closure by the Base Realignment and Closure (BRAC) Commission under Public Laws 100-526 and 101-510. The 1990 Base Closure Act, Public Law 101-510, established the process by which U.S. Department of Defense (DOD) installations would be closed or realigned. The BRAC Environmental Restoration Program requires investigation and cleanup of federal properties prior to transfer to the public domain. The U.S. Army is conducting environmental studies of the impact of suspected contaminants at parcels at FTMC under the management of the U.S. Army Corps of Engineers (USACE)-Mobile District. The USACE contracted IT Corporation (IT) to provide environmental services for the site investigation (SI) of the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), under Prime Contract Number DACA21-96-D-0018, Task Order CK05.

This SI report presents specific information and results compiled from the SI, including field sampling and analysis activities, conducted at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7).

1.1 Project Description

The Former Gas Mask Test Chambers site, Parcels 195(7), 196(7), and 198(7), was identified as an area to be investigated prior to property transfer. The site was classified as a Category 7 site in the environmental baseline survey (EBS) (Environmental Science and Engineering, Inc. [ESE], 1998). Category 7 sites are areas that are not evaluated and/or that require further evaluation.

A site-specific field sampling plan (SFSP) attachment and a site-specific safety and health plan (SSHP) attachment were finalized in October 1998 (IT, 1998a). The SFSP and SSHP were prepared to provide technical guidance for sample collection and analysis at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7). The SFSP was used in conjunction with the SSHP as attachments to the installation-wide work plan (IT, 1998b) and the installation-wide sampling and analysis plan (SAP) (IT, 2000a). The SAP includes the installation-wide safety and health plan and quality assurance plan.

The SI included field work to collect four surface soil samples and four subsurface soil samples. Data from the field investigation were used to determine whether potential site-specific chemicals are present at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7).

1.2 Purpose and Objectives

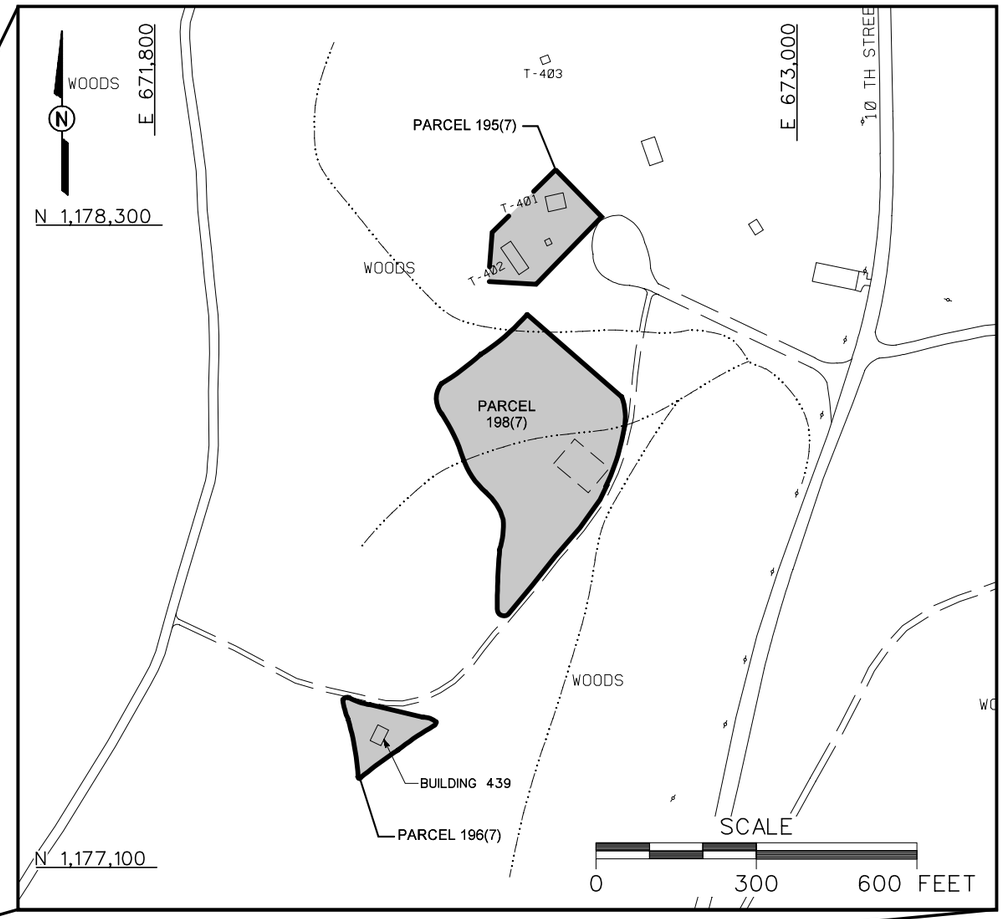
The SI program was designed to collect data from site media and provide a level of defensible data and information in sufficient detail to determine whether chemical constituents are present at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), at concentrations that would present an unacceptable risk to human health or the environment. The conclusions of the SI in Chapter 6.0 are based on the comparison of the analytical results to human health site-specific screening levels (SSSL), ecological screening values (ESV), and background screening values for FTMC. The SSSLs and ESVs were developed by IT as part of the human health and ecological risk evaluations associated with SIs being performed under the BRAC Environmental Restoration Program at FTMC. The SSSLs and ESVs are presented in the *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Alabama* (IT, 2000b). Background metals screening values are presented in the *Final Background Metals Survey Report, Fort McClellan, Alabama* (Science Applications International Corporation [SAIC], 1998).

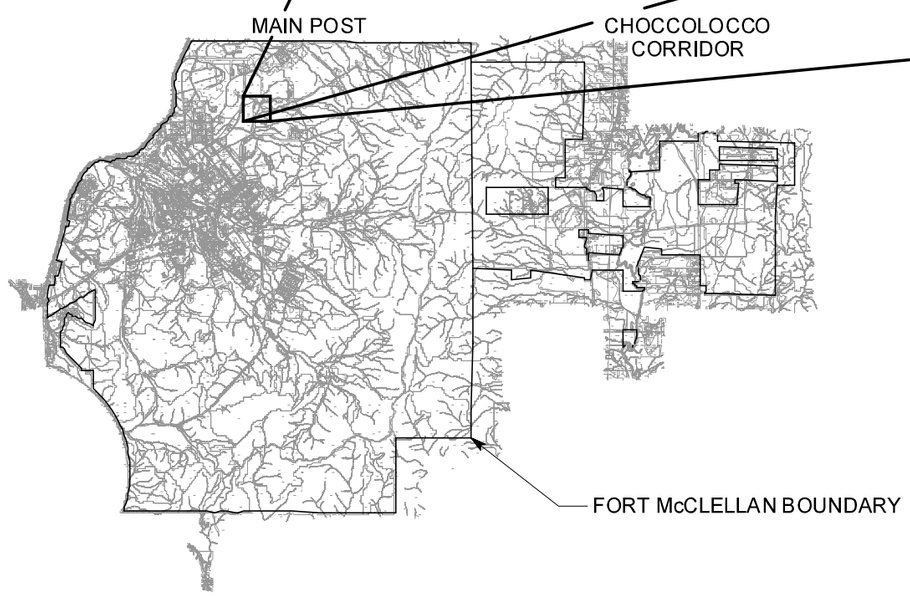
Based on the conclusions presented in this SI report, the BRAC Cleanup Team will decide to propose "No Further Action" at this site or to conduct additional work at the site.

1.3 Site Description and History

The Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), are located in the northern section of the Main Post, south of Reilly Airfield, near 10th Street (Figure 1-1). This site is made up of three parcels: Parcel 195(7), which is northernmost; Parcel 198(7); and farther to the south-southwest, Parcel 196(7) (Figure 1-2). These parcels lie in a wooded area between Trench Hill on the west and Cemetery Hill on the east. A series of small drainage pathways enter the site from the east (near 10th Street), from the south, and from the southwest cutting across Parcel 198(7). These drainage ways converge into one drainage way, which flows northwest across the upper end of the site between Parcels 195(7) and 198(7). The site ranges in elevation from approximately 760 feet to about 810 feet above mean sea level and slopes mainly to the northwest. The building on Parcel 198(7) has been demolished. Building rubble was visible at the site during the April 21, 1998 walkover, but was not apparent during a June 2000 site visit.

Gas mask test chambers have been used at FTMC since the 1950s to instill confidence in trainees that gas masks perform as required and to confirm proper fit before beginning training elsewhere with live chemical warfare agents. The agents used at the Gas Mask Test Chambers included





LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE
- FENCE
- UTILITY POLE

FIGURE 1-1
SITE LOCATION MAP
FORMER GAS MASK TEST CHAMBERS
PARCELS 195(7), 196(7), AND 198(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

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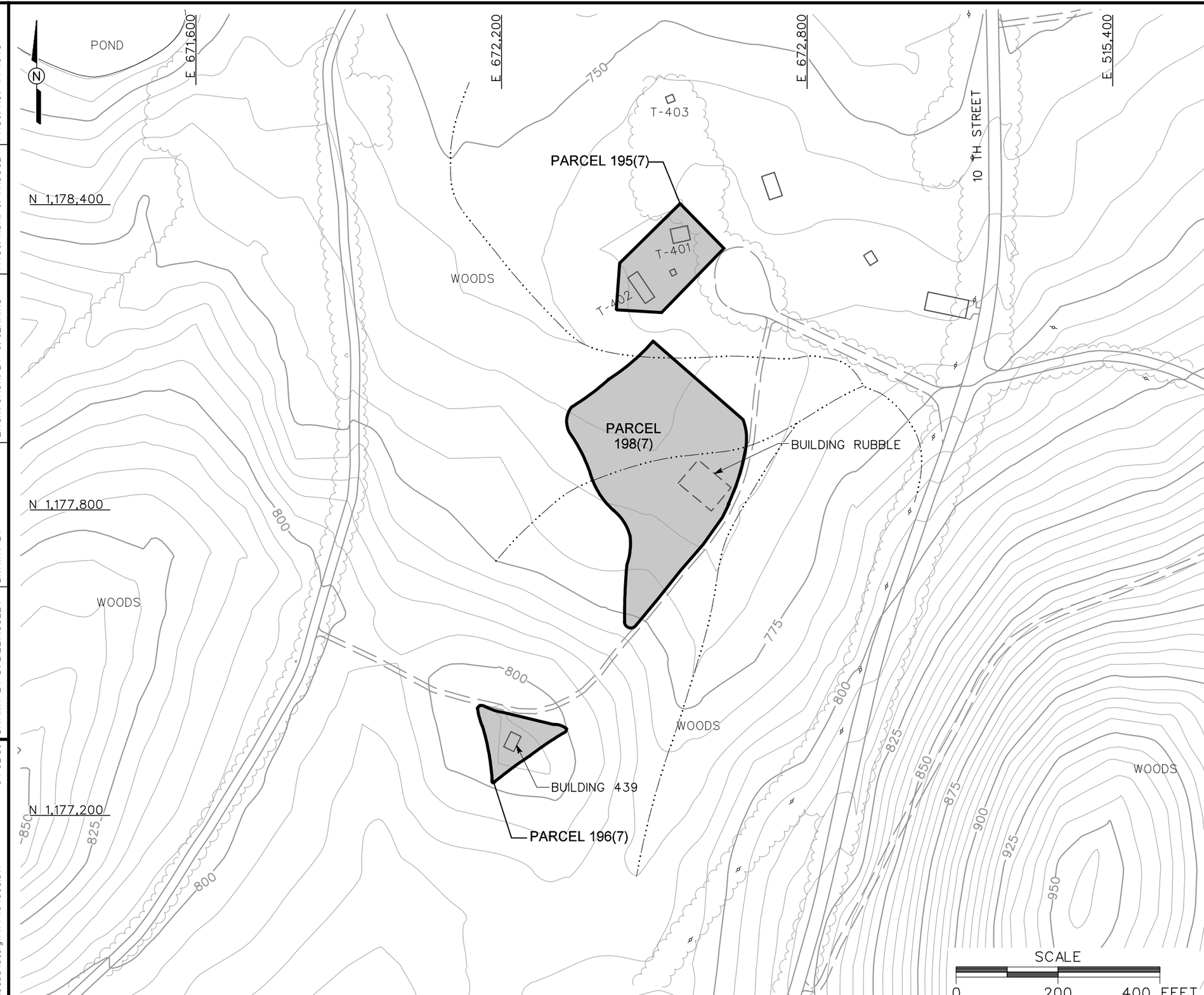

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE
- MANMADE SURFACE DRAINAGE FEATURE
- UTILITY POLE

FIGURE 1-2
SITE MAP
FORMER GAS MASK TEST CHAMBERS
PARCELS 195(7), 196(7), AND 198(7)

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chloroacetophenone (CN) and o-chlorobenzylidenemalononitrile (CS). CN “tear gas,” CS “tear gas,” and nonpersistent chlorine gas were reportedly used in the past. Live chemical warfare agents were not used at this site. Breakdown products of CN and CS compounds are hydroxyacetophenone (CN), and acetophenone (CN), and malononitrile (CS).

Specific procedures for operating the gas mask test chamber were followed: a capsule containing tear agent (CS) would be burned by an instructor in one chamber, and trainees would be required to don masks, check for proper fit, enter the chamber, remove masks, and exit upon signal. CN and chlorine gas would have been used in a similar manner. Small amounts of these irritating agents were used in these gas mask confidence training exercises. Releases have not been reported at any of these current or historical sites. Currently, Parcel 198(7) has unrestricted access. It is unknown what training occurred there. Chemicals used include CS. One active FTMC employee reported that powdered CS was spread on the ground at this location during training exercises; therefore, it is possible that soil contamination is present. No other information is available (ESE, 1998).

2.0 Previous Investigations

An EBS was conducted by ESE to document current environmental conditions of all FTMC property (ESE, 1998). The study was to identify sites that, based on available information, have no history of contamination and comply with DOD guidance for fast-track cleanup at closing installations. The EBS also provides a baseline picture of FTMC properties by identifying and categorizing the properties by seven criteria:

1. Areas where no storage, release, or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent areas)

2. Areas where only release or disposal of petroleum products has occurred

3. Areas where release, disposal, and/or migration of hazardous substances has occurred, but at concentrations that do not require a removal or remedial response

4. Areas where release, disposal, and/or migration of hazardous substances has occurred, and all removal or remedial actions to protect human health and the environment have been taken

5. Areas where release, disposal, and/or migration of hazardous substances has occurred, and removal or remedial actions are underway, but all required remedial actions have not yet been taken

6. Areas where release, disposal, and/or migration of hazardous substances has occurred, but required actions have not yet been implemented

7. Areas that are not evaluated or require additional evaluation.

The EBS was conducted in accordance with the Community Environmental Response Facilitation Act (CERFA) (CERFA-Public Law 102-426) protocols and DOD policy regarding contamination assessment. Records searches and reviews were performed on all reasonably available documents from FTMC, the Alabama Department of Environmental Management (ADEM), the U.S. Environmental Protection Agency (EPA) Region IV, and Calhoun County, as well as a database search of Comprehensive Environmental Response, Compensation, and Liability Act-regulated substances, petroleum products, and Resource Conservation and Recovery Act-regulated facilities. Available historic maps and aerial photographs were reviewed to document historic land uses. Personal and telephone interviews of past and present FTMC employees and military

personnel were conducted. In addition, visual site inspections were conducted to verify conditions of specific property parcels.

The Former Gas Mask Test Chambers, Parcels 195(7), 196(7) and 198(7), were classified as Category 7 CERFA sites: areas that are not evaluated or that require further evaluation. Previous studies to document site environmental conditions have not been conducted at Parcels 195(7), 196(7), and 198(7).

3.0 Current Site Investigation Activities

This chapter summarizes SI activities conducted by IT at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), including environmental sampling and analysis.

3.1 Environmental Sampling

The environmental sampling performed during the SI at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), included the collection of surface soil and subsurface soil samples for chemical analysis. The sample locations were determined by observing site physical characteristics noted during a site walkover, and by reviewing historical documents pertaining to activities conducted at the site. The sample locations, media, and rationale are summarized in Table 3-1. Sampling locations are shown on Figure 3-1. Samples were submitted for laboratory analyses of the site-related parameters listed in Section 3.3.

3.1.1 Surface Soil Sampling

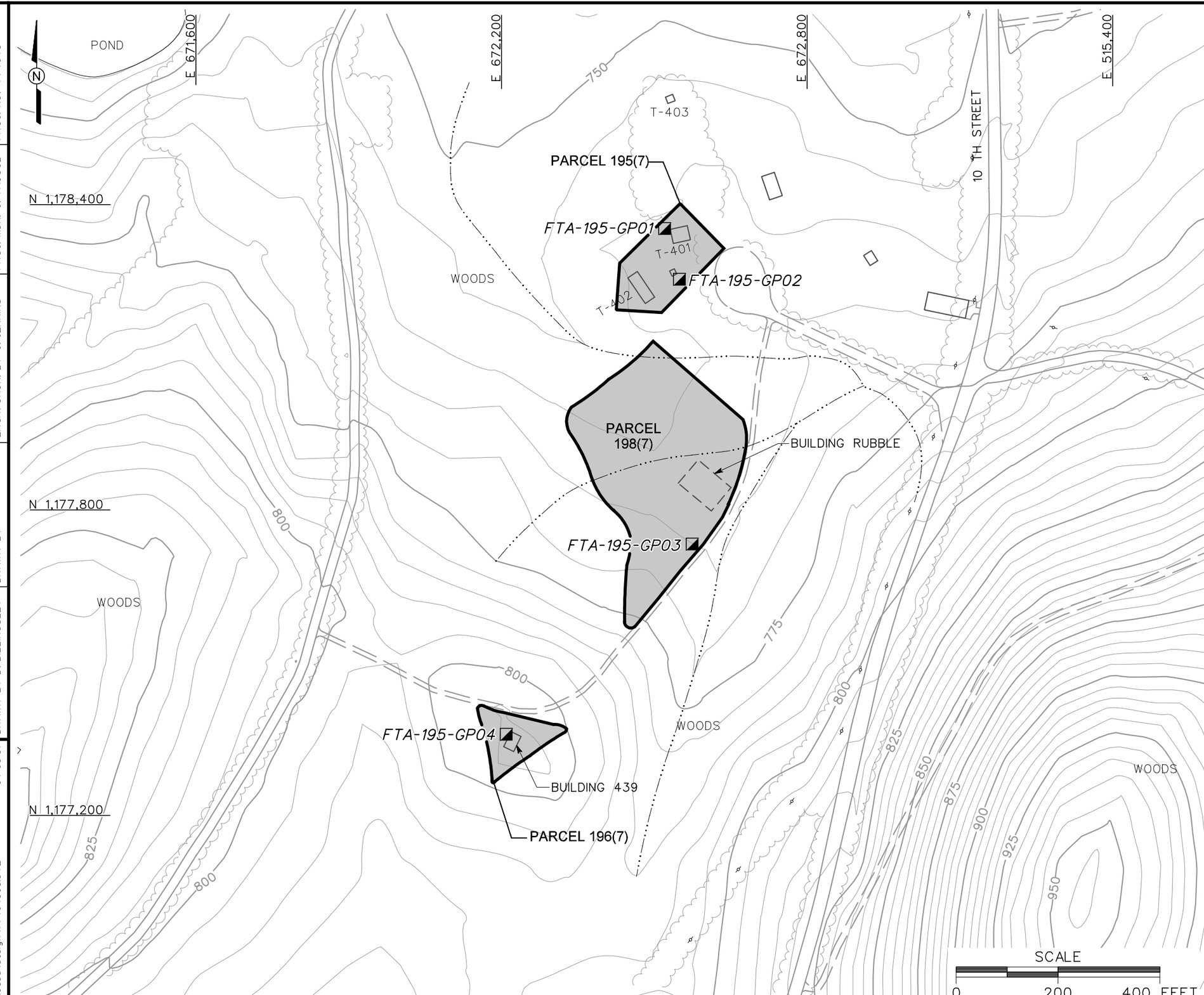
Surface soil samples were collected from four locations at the Former Gas Mask Test Chambers: Parcel 195(7) (two samples), Parcel 196(7) (one sample), and Parcel 198(7) (one sample). Soil sampling locations and rationale are presented in Table 3-1. Sampling locations are shown on Figure 3-1. Sample designations and quality assurance/quality control samples are listed in Table 3-2. Soil sampling locations were determined in the field by the on-site geologist based on the sampling rationale, presence of surface structures, site topography, and buried utilities.

Sample Collection. Soil samples were collected from the upper 1 foot of soil by either direct-push technology or with a 3-inch diameter stainless-steel hand auger using the methodology specified in Section 4.9 of the SAP (IT, 2000a). Surface soil samples were collected by first removing surface debris, such as rocks and vegetation, from the immediate sample area. The soil was then collected with the sampling device and screened with a photoionization detector (PID) in accordance with Section 4.7.1.1 of the SAP (IT, 2000a). Samples for volatile organic compound (VOC) analyses were collected directly from the sampler with three EnCore® samplers. The remaining portion of the sample was transferred to a clean stainless-steel bowl, homogenized, and placed in the appropriate sample containers. The samples were analyzed for the parameters listed in Table 3-2 using methods outlined in Section 3.3. Sample collection logs are included in Appendix A.

Table 3-1

Sampling Locations and Rationale
Former Gas Mask Test Chambers
Parcels 195(7), 196(7), and 198(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Media	Sample Location Rationale
FTA-195-GP01	Surface Soil Subsurface Soil	Soil samples were collected near the door of Building T-401.
FTA-195-GP02	Surface Soil Subsurface Soil	Soil samples were collected near the eastern boundary of Parcel 195(7).
FTA-195-GP03	Surface Soil Subsurface Soil	Soil samples were collected near the eastern boundary of Parcel 198(7).
FTA-195-GP04	Surface Soil Subsurface Soil	Soil samples were collected near the door of Building 439.



LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 5 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE
- MANMADE SURFACE DRAINAGE FEATURE
- UTILITY POLE
- SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION

FIGURE 3-1
SAMPLE LOCATION MAP
FORMER GAS MASK TEST CHAMBERS
PARCELS 195(7), 196(7), AND 198(7)

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Table 3-2

Surface and Subsurface Soil Sample Designations and QA/QC Samples
Former Gas Mask Test Chambers
Parcels 195(7), 196(7), and 198(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	Sample Depth (ft. bgs)	QA/QC Samples			Analytical Suite
			Field Duplicates	Field Splits	MS/MSD	
FTA-195-GP01	FTA-195-GP01-SS-DT0001-REG	0-1.0	FTA-195-GP01-SS-DT0003-FD	FTA-195-GP01-SS-DT0004-FS	FTA-195-GP01-SS-DT0001-MS FTA-195-GP01-SS-DT0001-MSD	TCL VOCs, TCL SVOCS, TAL Metals
	FTA-195-GP01-DS-DT0002-REG	4.0-8.0				
FTA-195-GP02	FTA-195-GP02-SS-DT0005-REG	0-1.0				TCL VOCs, TCL SVOCS, TAL Metals
	FTA-195-GP02-DS-DT0006-REG	2.0-4.0				
FTA-195-GP03	FTA-195-GP03-SS-DT0007-REG	0-1.0				TCL VOCs, TCL SVOCS, TAL Metals
	FTA-195-GP03-DS-DT0008-REG	2.0-3.0				
FTA-195-GP04	FTA-195-GP04-SS-DT0009-REG	0-1.0				TCL VOCs, TCL SVOCS, TAL Metals
	FTA-195-GP04-DS-DT0010-REG	3.0-5.0				

FD - Field duplicate
FS - Field split
ft. bgs - feet below ground surface
MS/MSD - Matrix spike/matrix spike duplicate.
QA/QC - Quality assurance/quality control.
SVOC - Semivolatile organic compound.
TAL - Target analyte list.
TCL - Target compound list.
VOC - Volatile organic compound.

3.1.2 Subsurface Soil Sampling

Subsurface soil samples were collected from four soil borings at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7). Subsurface soil sampling locations and rationale are presented in Table 3-1. Subsurface soil sample designations, depths, and quality assurance/quality control samples are listed in Table 3-2. Soil boring sampling locations were determined in the field by the on-site geologist based on the sampling rationale, presence of surface structures, site topography, and buried and overhead utilities. IT contracted TEG, Inc., a direct-push technology subcontractor, to assist in subsurface soil sample collection.

Sample Collection. Subsurface soil samples were collected from soil borings at depths of 2 to 8 feet below the ground surface (bgs) in the unsaturated zone. The soil borings were advanced and soil samples collected using the direct-push sampling procedures specified in Section 4.9.1.1 of the SAP (IT, 2000a). The samples were analyzed for the parameters listed in Table 3-2 using methods outlined in Section 3.3. Sample collection logs are included in Appendix A.

Soil samples were collected continuously until direct-push sampler refusal was encountered. Subsurface soil samples were field screened using a PID in accordance with Section 4.7.1.1 of the SAP (IT, 2000a) to measure samples for volatile organic vapors. The sample displaying the highest reading was selected and sent to the laboratory for analysis; however, at those locations where PID readings were not greater than background, the deepest sample interval above the saturated zone was submitted for analyses. Samples to be analyzed for VOCs were collected directly from the sampler with three EnCore® samplers. The remaining portion of the sample was transferred to a clean stainless-steel bowl, homogenized, and placed in the appropriate sample containers. Samples submitted for laboratory analyses are summarized in Table 3-2. The on-site geologist constructed a detailed lithological log for each soil boring. The lithological log for each borehole is included in Appendix B.

At the completion of soil sampling, boreholes were abandoned with bentonite chips and hydrated with potable water following borehole abandonment procedures summarized in Appendix B of the SAP (IT, 2000a).

3.2 Surveying of Sample Locations

Sample locations were surveyed using global positioning system survey techniques described in Section 4.3 of the SAP (IT, 2000a), and conventional civil survey techniques described in Section 4.19 of the SAP. Horizontal coordinates were referenced to the U.S. State Plane coordinate

system, Alabama East Zone, North American Datum of 1983. Elevations were referenced to the North American Vertical Datum of 1988. Horizontal coordinates and elevations are included in Appendix C.

3.3 Analytical Program

Samples collected during the SI were analyzed for various chemical parameters. The specific suite of analyses performed was based on the potential site-specific chemicals historically at the site and EPA, ADEM, FTMC, and USACE requirements. Samples collected at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), were analyzed for the following parameters:

- Target Compound List VOCs – EPA Method 5035/8260B
- Target Compound List Semivolatile Organic Compounds (SVOC) – EPA Method 8270C
- Target Analyte List Metals – EPA Method 6010B/7000.

The samples were analyzed using EPA SW-846 methods, including Update III Methods where applicable, as presented in Table 6-1 in Appendix B of the SAP (IT, 2000a). Data were reported and evaluated in accordance with Corps of Engineers South Atlantic Savannah Level B criteria (USACE, 1994) and the stipulated requirements for the generation of definitive data (Section 3.1.2 of Appendix B of the SAP [IT, 2000a]). Chemical data were reported via hard copy data packages by the laboratory using Contract Laboratory Program-like forms. These packages were validated in accordance with EPA National Functional Guidelines by Level III criteria. A summary of validated analytical data is included in Appendix D. The Data Validation Summary Report is included as Appendix E.

3.4 Sample Preservation, Packaging, and Shipping

Sample preservation, packaging, and shipping followed requirements specified in Section 4.13.2 of the SAP (IT, 2000a). Sample containers, sample volumes, preservatives, and holding times for the analyses required in this SI are listed in Section 5.0, Table 5-1, of Appendix B of the SAP. Sample documentation and chain-of-custody forms were recorded as specified in Section 4.13 of the SAP.

Completed analysis request and chain-of-custody forms (Appendix A) were secured and included with each shipment of sample coolers to Quanterra Environmental Services (Quanterra) in Knoxville, Tennessee. Split samples were shipped to USACE South Atlantic Division Laboratory in Marietta, Georgia.

3.5 Investigation-Derived Waste Management and Disposal

Investigation-derived waste (IDW) was managed and disposed as outlined in Appendix D of the SAP (IT, 2000a). The IDW generated from the field sampling at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), was segregated as follows:

- Drill cuttings
- Decontamination fluids
- Personal protective equipment.

Solid IDW was stored inside the fenced area surrounding Buildings 335 and 336 in lined roll-off bins prior to characterization and final disposal. Solid IDW was characterized using toxicity characteristic leaching procedure analyses. Based on the results, soil boring cuttings and personal protective equipment generated during the SI at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), were disposed as nonregulated waste at the Industrial Waste Landfill on the Main Post of FTMC.

Liquid IDW was contained in the existing 20,000-gallon sump associated with the Building T-338 vehicle washrack. Liquid IDW was characterized by VOC, SVOC, and metals analyses. Based on the analyses, liquid IDW was discharged as nonregulated waste to the FTMC wastewater treatment plant on the Main Post.

3.6 Variances/Nonconformances

There were not any variances or nonconformances to the SFSP recorded during completion of the SI at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7).

3.7 Data Quality

The field sample results are presented in tabular form in Appendix D. The field samples were collected, documented, handled, analyzed, and reported in a manner consistent with the SI work plan; the FTMC SAP and quality assurance plan; and standard, accepted methods and procedures. Sample collection logs pertaining to the collection of these samples were reviewed and organized for this report, and are included in Appendix A. As discussed in Section 3.6, there were not any

variances or nonconformances identified either in the field or during the review of sample collection logs that may have impacted the usability of the data.

Data Validation. A complete (100 percent) Level III data validation effort was performed on the reported analytical data. Appendix E consists of a data validation summary report that was prepared to discuss the validation results. Selected results were rejected or otherwise qualified based on the implementation of accepted data validation procedures and practices. These qualified parameters are highlighted in the report. The validation-assigned qualifiers were added to the FTMC IT Environmental Management System™ database for tracking and reporting. The qualified data were used in the comparison to the SSSLs and ESVs. Rejected data (assigned an 'R' qualifier) were not used in the comparison to SSSLs and ESVs. The data presented in this report, except where qualified, meet the principle data quality objective for this SI.

4.0 Site Characterization

Subsurface investigations performed at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), provided soil and geological data to characterize the site. There were not any wells installed at the parcel and a hydrogeological characterization of the Former Gas Mask Test Chambers was not performed.

4.1 Regional and Site Geology

4.1.1 Regional Geology

Calhoun County includes parts of two physiographic provinces, the Piedmont Upland Province and the Valley and Ridge Province. The Piedmont Upland Province occupies the extreme eastern and southeastern portions of the county, and is characterized by metamorphosed sedimentary rocks. The generally accepted range in age of these metamorphics is Cambrian to Devonian.

The majority of Calhoun County, including the Main Post of FTMC, lies within the Appalachian fold and thrust structural belt (Valley and Ridge Province) where southeastward-dipping thrust faults with associated minor folding are the predominant structural features. The fold and thrust belt consists of Paleozoic sedimentary rocks that have been asymmetrically folded and thrust-faulted with major structures and faults striking in a northeast-southwest direction.

Northwestward transport of the Paleozoic rock sequence along the thrust faults has resulted in the imbricate stacking of large slabs of rock referred to as thrust sheets. Within an individual thrust sheet, smaller faults may splay off the larger thrust fault, resulting in imbricate stacking of rock units within an individual thrust sheet (Osborne and Szabo, 1984). Geologic contacts in this region generally strike parallel to the faults and repetition of lithologic units is common in vertical sequences. Geologic formations within the Valley and Ridge Province portion of Calhoun County have been mapped by Warman and Causey (1962), Osborne and Szabo (1984), and Moser and DeJarnette (1992), and vary in age from Lower Cambrian to Pennsylvanian.

The basal unit of the sedimentary sequence in Calhoun County is the Cambrian Chilhowee Group. The Chilhowee Group is comprised of the Cochran, Nichols, Wilson Ridge, and Weisner Formations (Osborne and Szabo, 1984), but in Calhoun County is either undifferentiated or divided into the Cochran and Nichols Formations and an upper undifferentiated Wilson Ridge and

Weisner Formation. The Cochran is composed of poorly sorted arkosic sandstone and conglomerate with interbeds of greenish-gray siltstone and mudstone. Massive to laminated, greenish-gray and black mudstone makes up the Nichols Formation with thin interbeds of siltstone and very fine-grained sandstone (Szabo et al., 1988). These two formations are mapped only in the eastern part of the county.

The Wilson Ridge and Weisner Formations are undifferentiated in Calhoun County and consist of both coarse-grained and fine-grained clastics. The coarse-grained facies appear to dominate the unit, and consist primarily of coarse-grained, vitreous quartzite, and friable, fine- to coarse-grained, orthoquartzitic sandstone, both of which locally contain conglomerate. The fine-grained facies consists of sandy and micaceous shale and silty, micaceous mudstone, which are locally interbedded with the coarse clastic rocks. The abundance of orthoquartzitic sandstone and quartzite suggests that most of the Chilhowee Group bedrock in the vicinity of FTMC belongs to the Weisner Formation (Osborne and Szabo, 1984).

The Cambrian Shady Dolomite overlies the Weisner Formation northeast, east and southwest of the Main Post and consists of interlayered bluish-gray or pale yellowish-gray sandy dolomitic limestone and siliceous dolomite with coarsely crystalline porous chert (Osborne et al., 1989). A variegated shale and clayey silt have been included within the lower part of the Shady Dolomite (Cloud, 1966). Material similar to this lower shale unit was noted in core holes drilled by the Alabama Geologic Survey on FTMC (Osborne and Szabo, 1984). The character of the Shady Dolomite in the FTMC vicinity and the true assignment of the shale at this stratigraphic interval are still uncertain (Osborne, 1999).

The Rome Formation overlies the Shady Dolomite and locally occurs to the northwest and southeast of the Main Post as mapped by Warman and Causey (1962) and Osborne and Szabo (1984), and immediately to the west of Reilly Airfield (Osborne and Szabo, 1984). The Rome Formation consists of variegated thinly interbedded grayish-red-purple mudstone, shale, siltstone, and greenish-red and light gray sandstone, with locally occurring limestone and dolomite. The Conasauga Formation overlies the Rome Formation and occurs along anticlinal axes in the northeastern portion of Pelham Range (Warman and Causey, 1962) (Osborne and Szabo, 1984) and the northern portion of the Main Post (Osborne et al., 1997). The Conasauga Formation is composed of dark-gray, finely to coarsely crystalline medium- to thick-bedded dolomite with minor shale and chert (Osborne et al., 1989).

Overlying the Conasauga Formation is the Knox Group, which is composed of the Copper Ridge and Chepultepec dolomites of Cambro-Ordovician age. The Knox Group is undifferentiated in Calhoun County and consists of light medium gray, fine to medium crystalline, variably bedded to laminated, siliceous dolomite and dolomitic limestone that weathers to a chert residuum (Osborne and Szabo, 1984). The Knox Group underlies a large portion of the Pelham Range area.

The Ordovician Newala and Little Oak Limestones overlie the Knox Group. The Newala Limestone consists of light to dark gray, micritic, thick-bedded limestone with minor dolomite. The Little Oak Limestone is comprised of dark gray, medium- to thick-bedded, fossiliferous, and argillaceous to silty limestone with chert nodules. These limestone units are mapped together as undifferentiated at FTMC and other parts of Calhoun County. The Athens Shale overlies the Ordovician limestone units. The Athens Shale consists of dark-gray to black shale and graptolitic shale with localized interbedded dark gray limestone (Osborne et al., 1989). These units occur within an eroded "window" in the uppermost structural thrust sheet at FTMC and underlie much of the developed area of the Main Post.

Other Ordovician-aged bedrock units mapped in Calhoun County include the Greensport Formation, Colvin Mountain Sandstone, and Sequatchie Formation. These units consist of various siltstones, sandstones, shales, dolomites and limestones, and are mapped as one, undifferentiated unit in some areas of Calhoun County. The only Silurian-age sedimentary formation mapped in Calhoun County is the Red Mountain Formation. This unit consists of interbedded red sandstone, siltstone, and shale with greenish-gray to red silty and sandy limestone.

The Devonian Frog Mountain Sandstone consists of sandstone and quartzitic sandstone with shale interbeds, dolomudstone, and glauconitic limestone (Szabo et al., 1988). This unit locally occurs in the western portion of Pelham Range.

The Mississippian Fort Payne Chert and the Maury Formation overlie the Frog Mountain Sandstone, and are composed of dark- to light-gray limestone with abundant chert nodules and greenish-gray to grayish-red phosphatic shale with increasing amounts of calcareous chert toward the upper portion of the formation (Osborne and Szabo, 1984). These units occur in the northwestern portion of Pelham Range. Overlying the Fort Payne Chert is the Floyd Shale, also of Mississippian age, which consists of thin-bedded, fissile brown to black shale with thin intercalated limestone layers and interbedded sandstone. Osborne and Szabo (1984) reassigned the Floyd Shale, which was mapped by Warman and Causey (1962) on the Main Post of FTMC,

to the Ordovician Athens Shale on the basis of fossil data.

The Jacksonville Thrust Fault is the most significant structural geologic feature in the vicinity of FTMC, both for its role in determining the stratigraphic relationships in the area and for its contribution to regional water supplies. The trace of the fault extends northeastward for approximately 39 miles between Bynum, Alabama and Piedmont, Alabama. The fault is interpreted as a major splay of the Pell City Fault (Osborne and Szabo, 1984). The Ordovician sequence comprising the Eden thrust sheet is exposed at FTMC through an eroded "window" or "fenster" in the overlying thrust sheet. Rocks within the window display complex folding with the folds being overturned, and tight to isoclinal. The carbonates and shales locally exhibit well-developed cleavage (Osborne and Szabo, 1984). The FTMC window is framed on the northwest by the Rome Formation, north by the Conasauga Formation, northeast, east, and southwest by the Shady Dolomite, and southeast and southwest by the Chilhowee Group (Osborne et al., 1997).

4.1.2 Site Geology

Two soil series are present at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7). The northernmost portion of the site has the Philo Series. The southern portion of the site has Anniston Series soils.

The specific soil type of Philo Series soil at this site is Philo and Stendal soils, local alluvium, and 0 to 2 percent slopes (PkA). This mapping unit is on foot slopes, along and at the head of small drainageways or draws. It occurs in areas that are 1 to 10 acres in size. The soils are variable in color, texture, and consistency. Drainage ranges from poor to moderately good. Water stands on the surface for short periods, and there are a few seepage areas. Impaired drainage is the main hazard, and these areas are frequently flooded. Depth to top of bedrock is generally greater than 6 feet bgs.

The specific type of Anniston Series soil at this site is Anniston gravelly clay loam, 6 to 10 percent slopes, severely eroded (AbC3). These soils consist of areas that have lost nearly all of their original surface soil through erosion. The upper layer is now a reddish-brown, gravelly clay loam, 4 to 6 inches thick. It is underlain, in most places, by red or dark reddish-brown gravelly clay loam. It has many small, shallow gullies and a few deep ones. Infiltration is moderately slow, and the capacity for available moisture is low. Depth to bedrock is generally between 2 and 10 feet (U.S. Department of Agriculture, 1961).

The Former Gas Mask Test Chambers site is situated on the northern portion of the Ordovician window in the uppermost thrust sheet. Bedrock beneath the site is mapped as Floyd Shale of Mississippian age (Warman and Causey, 1962). Osborne and Szabo (1983, 1984) later reassigned this unit to the Ordovician age Athens Shale.

Based on direct-push soil boring data collected during the SI, residuum beneath the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7) consists of predominantly sandy clay and silt with chert and rock fragments. Direct-push refusal was encountered at depths ranging from 3 to 8 feet bgs. Bedrock was not encountered in any of the borings installed.

4.2 Site Hydrology

Precipitation in the form of rainfall averages about 54 inches annually in Anniston, Alabama, with infiltration rates annually exceeding evapotranspiration rates. The major surface water features at the Main Post of FTMC include Remount Creek, Cane Creek, and Cave Creek. These waterways flow in a general northwest to westerly direction towards the Coosa River on the western boundary of Calhoun County.

Surface runoff at the Former Gas Mask Test Chambers site flows into a series of small drainage pathways that enter the site from the east (near 10th Street), from the south, and from the southwest cutting across Parcel 198(7). These drainage ways converge into one drainage way that flows northwest across the upper end of the site between Parcels 195(7) and 198(7).

5.0 Summary of Analytical Results

The results of the chemical analyses of samples collected at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), indicate that metals, VOCs, and SVOCs have been detected in surface and subsurface soils. To evaluate whether the detected constituents present an unacceptable risk to human health and the environment, analytical results were compared to the human health SSSLs and ESVs for FTMC. The SSSLs and ESVs were developed by IT for human health and ecological risk evaluations as part of the ongoing SIs being performed under the BRAC Environmental Restoration Program at FTMC.

Metal concentrations exceeding the SSSLs and ESVs were subsequently compared to background metals screening values (SAIC, 1998) to determine if the metals concentrations are within natural background concentrations. Summary statistics for background metals samples collected at FTMC (SAIC, 1998) are included in Appendix F.

Six compounds were quantified by both SW-846 Method 8260B (as VOC) and Method 8270C (as SVOC), including 1,2,4-trichlorobenzene, 1,4-dichlorobenzene, 1,3-dichlorobenzene, 1,2-dichlorobenzene, hexachlorobutadiene, and naphthalene. Method 8260B yields a reporting limit (RL) of 0.005 milligrams per kilogram (mg/kg), while Method 8270C has a RL of 0.330 mg/kg, which is typical for a soil matrix sample. Due to the direct nature of the Method 8260B analysis and its resulting lower RL, this method should be considered superior to Method 8270C when quantifying low levels (0.005 to 0.330 mg/kg) of these compounds. Method 8270C and its associated methylene chloride extraction step is superior, however when dealing with samples that contain higher concentrations (greater than 0.330 mg/kg) of these compounds. Therefore, all data were considered and none were categorically excluded. Data validation qualifiers were helpful in evaluating the usability of data, especially if calibration, blank contamination, precision, or accuracy indicator anomalies were encountered. The validation qualifiers and concentrations reported (e.g., whether concentrations were less than or greater than 0.330 mg/kg) were used to determine which analytical method was likely to return the more accurate result.

The following sections and Tables 5-1 and 5-2 summarize the results of the comparison of detected constituents to the SSSLs, ESVs, and background screening values. Complete analytical results are presented in Appendix D.

Table 5-1

Surface Soil Analytical Results
Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7)
Fort McClellan, Calhoun County, Alabama

Parcel					FTA-195					FTA-195					FTA-195					FTA-195				
Sample Location					FTA-195-GP01					FTA-195-GP02					FTA-195-GP03					FTA-195-GP04				
Sample Number					DT0001					DT0005					DT0007					DT0009				
Sample Date					4-Nov-98					29-Oct-98					29-Oct-98					29-Oct-98				
Sample Depth (Feet)					0- 1					0- 1					0- 1					0- 1				
Parameter	Units	BKG[a]	SSSL[b]	ESV[b]	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	6.20E+03				YES	8.38E+03			YES	YES	1.39E+04			YES	YES	4.90E+03				YES
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	4.70E+00	J		YES		4.40E+00	J		YES		6.30E+00	J		YES		3.70E+00	J		YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	3.77E+01					6.01E+01					8.50E+01					2.84E+01				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	ND					ND					6.80E-01					ND				
Calcium	mg/kg	1.72E+03	NA	NA	7.18E+03	J	YES			1.78E+04	J	YES			ND					ND				
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.19E+01	J			YES	1.83E+01	J			YES	3.83E+01	J	YES	YES	YES	4.96E+01	J	YES	YES	YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	ND					7.20E+00					9.90E+00	J				ND				
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	6.80E+00					6.60E+00					6.80E+00					5.80E+00				
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	9.48E+03			YES	YES	1.56E+04			YES	YES	2.41E+04			YES	YES	1.66E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	1.45E+01					2.92E+01					2.19E+01					9.20E+00				
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	3.91E+03	J	YES			8.82E+03	J	YES			ND					ND				
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	6.62E+02			YES	YES	6.21E+02			YES	YES	5.61E+02			YES	YES	1.17E+02				YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	ND					6.10E-02					7.80E-02					3.60E-02				
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	ND					4.90E+00					8.10E+00					ND				
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	ND					ND					ND					7.40E-01		YES		
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	1.20E+01				YES	2.01E+01				YES	2.74E+01				YES	1.65E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	4.14E+01		YES			4.14E+01		YES			1.92E+01	B				2.42E+01	B			
VOLATILE ORGANIC COMPOUNDS																								
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	8.00E-03	B				5.00E-03	J				5.70E-03	J				2.80E-03	J			
Acetone	mg/kg	NA	7.76E+02	2.50E+00	2.60E-01	J				9.20E-02	J				1.60E+00	J				1.60E-01	J			
Bromomethane	mg/kg	NA	1.09E+01	NA	4.60E-03	B				ND					2.30E-03	J				ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	4.50E-03	B				3.30E-03	B				3.80E-03	B				3.60E-03	B			
Toluene	mg/kg	NA	1.55E+03	5.00E-02	1.20E-02	J				3.70E-03	J				3.60E-02					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					5.70E-03					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	1.10E-02	J				6.40E-03	J				5.80E-02					ND				
SEMIVOLATILE ORGANIC COMPOUNDS																								
bis(2-Chloroethyl)ether	mg/kg	NA	5.73E-01	2.37E+01	1.00E-01	J				ND					ND					ND				
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	7.30E-02	J				8.30E-02	J				ND					ND				

Analyses performed by Quanterra Environmental Services using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods, including Update III methods where applicable.

[a] Bkg - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in Science Applications International Corporation (1998), *Final Background Metals Survey Report, Fort McClellan, Alabama, July.*

[b] Residential human health site-specific screening level (SSSL) and ecological screening value (ESV) as given in IT Corporation (2000b), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama, July.*

B - Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero).

J - Result is greater than stated method detection limit but less than or equal to specified reporting limit.

mg/kg - Milligrams per kilogram

NA - Not available

ND - Not detected

Qual - Data validation qualifier

Table 5-2

Subsurface Soil Analytical Results
Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7)
Fort McClellan, Calhoun County, Alabama

Parcel				FTA-195				FTA-195				FTA-195				FTA-195			
Sample Location				FTA-195-GP01				FTA-195-GP02				FTA-195-GP03				FTA-195-GP04			
Sample Number				DT0002				DT0006				DT0008				DT0010			
Sample Date				4-Nov-98				29-Oct-98				29-Oct-98				29-Oct-98			
Sample Depth (Feet)				4-8				2-4				2-3				3-5			
Parameter	**Units**	**BKG[a]**	**SSSL[b]**	**Result**	**Qual**	**>BKG**	**>SSSL**	**Result**	**Qual**	**>BKG**	**>SSSL**	**Result**	**Qual**	**>BKG**	**>SSSL**	**Result**	**Qual**	**>BKG**	**>SSSL**
METALS																			
Aluminum	mg/kg	1.36E+04	7.80E+03	1.26E+04			YES	7.10E+03				1.33E+04			YES	1.07E+04			YES
Arsenic	mg/kg	1.83E+01	4.26E-01	7.90E+00	J		YES	6.00E+00	J		YES	8.10E+00	J		YES	5.40E+00	J		YES
Barium	mg/kg	2.34E+02	5.47E+02	3.08E+01				ND				4.30E+01				ND			
Calcium	mg/kg	6.37E+02	NA	ND				1.40E+03	J	YES		ND				ND			
Chromium	mg/kg	3.83E+01	2.32E+01	5.19E+01	J	YES	YES	3.05E+01	J		YES	4.83E+01	J	YES	YES	2.32E+01	J		YES
Cobalt	mg/kg	1.75E+01	4.68E+02	7.50E+00	J			ND				6.00E+00	J			ND			
Copper	mg/kg	1.94E+01	3.13E+02	7.80E+00				7.30E+00				1.16E+01				9.10E+00			
Iron	mg/kg	4.48E+04	2.34E+03	3.11E+04			YES	2.72E+04			YES	3.57E+04			YES	2.85E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.48E+01				9.50E+00				1.23E+01				7.30E+00			
Magnesium	mg/kg	7.66E+02	NA	ND				8.23E+02	J	YES		ND				ND			
Manganese	mg/kg	1.36E+03	3.63E+02	5.37E+02			YES	1.04E+02				1.39E+02				2.30E+01			
Mercury	mg/kg	7.00E-02	2.33E+00	5.80E-02				6.30E-02				1.50E-01		YES		4.10E-02			
Nickel	mg/kg	1.29E+01	1.54E+02	7.00E+00				ND				6.40E+00				ND			
Selenium	mg/kg	4.70E-01	3.91E+01	ND				ND				ND				6.60E-01		YES	
Vanadium	mg/kg	6.49E+01	5.31E+01	3.49E+01				2.47E+01				3.82E+01				1.89E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	1.73E+01				1.24E+01	B			1.84E+01	B			1.10E+01	B		
VOLATILE ORGANIC COMPOUNDS																			
Acetone	mg/kg	NA	7.76E+02	2.40E-02	B			1.10E-01	J			2.60E-01	J			1.10E-01	J		
Methylene chloride	mg/kg	NA	8.41E+01	5.40E-03	B			4.30E-03	B			9.40E-03	B			3.20E-03	B		
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				ND				4.70E-03	J			ND			
p-Cymene	mg/kg	NA	1553.41	ND				ND				0.47	J			ND			
SEMIVOLATILE ORGANIC COMPOUNDS																			
bis(2-Chloroethyl)ether	mg/kg	NA	5.73E-01	1.10E-01	J			ND				ND				ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	7.70E-02	J			ND				ND				ND			

Analyses performed by Quanterra Environmental Services using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods, including Update III methods where applicable.

[a] Bkg - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in Science Applications International Corporation (1998), *Final Background Metals Survey Report, Fort McClellan, Alabama* , July.

[b] Residential human health site-specific screening level (SSSL) as given in IT Corporation (2000b), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama, July.*

B - Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero).

J - Result is greater than stated method detection limit but less than or equal to specified reporting limit.

mg/kg - Milligrams per kilogram

NA - Not available

ND - Not detected

Qual - Data validation qualifier

5.1 Surface Soil Analytical Results

Four surface soil samples were collected for chemical analyses at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7). Surface soil samples were collected from the upper 1 foot of soil at the locations shown on Figure 3-1. Analytical results were compared to residential human health SSSLs, ESVs, and background screening values, as presented in Table 5-1.

Metals. Seventeen metals were detected in surface soil samples collected at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7). Aluminum, arsenic, barium, chromium, copper, iron, lead, manganese, vanadium, and zinc were present in each of the samples.

The concentrations of aluminum (FTA-195-GP02 and FTA-195-GP03), arsenic (four locations), chromium (FTA-195-GP03 and FTA-195-GP04), iron (four locations), and manganese (FTA-195-GP01, FTA-195-GP02, and FTA-195-GP03) exceeded residential human health SSSLs. With the exception of chromium (two locations), these metals concentrations were within background concentrations. The chromium results were within the range of background values (Appendix F).

The concentrations of five metals (aluminum, chromium, iron, manganese, and vanadium) exceeded ESVs but were within background concentrations or the range of background values.

Volatile Organic Compounds. Seven VOCs, including 2-butanone, acetone, bromo-methane, methylene chloride, toluene, m,p-xylenes, and p-cymene were detected in surface soil samples collected at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7). The methylene chloride results, one of the 2-butanone results, and one of the bromomethane results were flagged with a ‘B’ data qualifier, signifying that these compounds were also detected in an associated laboratory or field blank sample. Sample location FTA-195-GP03 contained each of the detected VOCs, and sample location FTA-195-GP01 contained six of the seven detected VOCs. However, none of the detected VOCs were present at a concentration exceeding residential human health SSSLs or ESVs.

Semivolatile Organic Compounds. The SVOCs bis(2-chloroethyl)ether and bis(2-ethylhexyl)phthalate were detected in surface soil samples collected at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7). SVOCs were not detected in the surface soils collected from sample locations FTA-195-GP03 and FTA-195-GP04. Sample location FTA-195-GP01 contained both of the detected SVOCs, and sample location FTA-195-GP02 contained one of the detected SVOCs. The SVOC analytical results were flagged with a 'J' data qualifier, signifying that the results were greater than the method detection limit but less than the specified RL. However, none of the detected SVOCs was present at a concentration exceeding SSSLs or ESVs.

5.2 Subsurface Soil Analytical Results

Four subsurface soil samples were collected for chemical analyses at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7). Subsurface soil samples were collected at depths greater than 1 foot bgs at the locations shown on Figure 3-1. Analytical results were compared to residential human health SSSLs and background screening values, as presented in Table 5-2.

Metals. Sixteen metals were detected in subsurface soil samples collected at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7). The concentrations of five metals (aluminum, arsenic, chromium, iron, and manganese) exceeded residential human health SSSLs. However, with the exception of chromium at two locations (FTA-195-GP01 and FTA-195-GP03) the concentrations of these metals were within background concentrations. The chromium results were within the range of background values determined by SAIC (1998) (Appendix F).

Volatile Organic Compounds. Acetone, methylene chloride, trichlorofluoromethane, and p-cymene were detected in subsurface soil samples collected at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7). The methylene chloride results and one of the acetone results were flagged with a 'B' data qualifier, signifying this compound was also detected in an associated laboratory or field blank sample. None of the detected VOCs were present at a concentration exceeding residential human health SSSLs.

Semivolatile Organic Compounds. Bis(2-chloroethyl)ether and bis(2-ethylhexyl)phthalate were detected in one of the subsurface soil samples collected at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7). Sample location FTA-195-GP01 contained both of the detected SVOCs. SVOCs were not detected in the other three samples. The bis(2-chloroethyl)ether and bis(2-ethylhexyl)phthalate concentrations were below residential human

health SSSLs.

During direct-push subsurface soil sample collection activities at Building T-401 (Parcel 195[7]), IT personnel experienced irritation of the eyes and upper respiratory tract, consistent with symptoms of exposure to tear gas agents. The field crew evacuated the area, but returned a few days later in Level "C" PPE (including full-face respirator) to complete subsurface soil sample collection. Because of the apparent CN/CS compounds encountered during field activities, IT requested that the analytical laboratory (Quanterra) perform a tentatively identified compound (TIC) library search on the soil samples previously submitted for analysis. Quanterra produced an analytical report for Lot Number H9K170163 that summarized the results of TIC library searches on each of the soil samples collected at the Former Gas Mask Test Chambers site. The searches were performed to check for the presence of CN or CS and CS/CN breakdown products in samples originally analyzed for TCL SVOCs. The individual CN and CS compounds that were processed during the search included:

- Chloroacephenone (CN)
- o-Chlorobenzylidenemelanonitrile (CS)
- Malonitrile (CS)
- Hydroxyacetophenone (CN)
- Acetophenone (CN).

However, none of these compounds were identified during the TIC searches performed on the samples.

6.0 Summary and Conclusions and Recommendations

IT, under contract with USACE, completed an SI at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), at FTMC in Calhoun County, Alabama. The SI was conducted to determine whether chemical constituents are present at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7) and, if present, whether the concentrations would present an unacceptable risk to human health or the environment. The SI at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), consisted of the sampling and analyses of four surface soil samples and four subsurface soil samples.

The analytical results indicate that metals, VOCs, and SVOCs were detected in the environmental media sampled. Analytical results were compared to the residential human health SSSLs and ESVs. The SSSLs and ESVs were developed by IT for human health and ecological risk evaluations as part of the ongoing SIs being performed under the BRAC Environmental Restoration Program at FTMC. Additionally, metals results exceeding the SSSLs and ESVs were compared to media-specific background concentrations (SAIC, 1998).

The potential impact to human receptors is expected to be minimal. The metals that exceeded residential human health SSSLs were within background concentrations or the range of background values, and thus, do not pose an unacceptable risk to future human receptors. VOC and SVOC concentrations were below residential human health SSSLs. However, based on the physical reactions of the field personnel during sampling activities at Parcel 195(7), apparent tear gas compounds are present possibly in soils or building walls at the site. Because of the problems encountered by field personnel, a TIC library search for CS/CN compounds was performed on the soil samples. CS/CN compounds were not identified in the TIC search.

The potential impact to ecological receptors is expected to be minimal. The metals that exceeded ESVs were within background concentrations or the range of background values. VOC and SVOC concentrations in surface soils were below ESVs. Consequently, the threat to potential ecological receptors is expected to be minimal.

The Former Gas Mask Test Chambers, Parcel 195(7) and a small segment of Parcel 198(7), are scheduled to be transferred to the Alabama National Guard for continued use as a gas mask training area. The Former Gas Mask Test Chambers, Parcel 196(7) and the remainder of Parcel

198(7), are scheduled to be transferred to the Joint Powers Authority. Provided that Parcel 195(7) and the small segment of Parcel 198(7) remains under the control of the Alabama National Guard and is used in the manner historically used, IT recommends no further action at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7). If the land-use scenario changes, the no further action recommendation at the Former Gas Mask Test Chambers, Parcels 195(7), 196(7), and 198(7), will need to be reevaluated.

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ATTACHMENT 1

LIST OF ABBREVIATIONS AND ACRONYMS

List of Abbreviations and Acronyms

2,4-D	2,4-dichlorophenoxyacetic acid
2,4,5-T	2,4,5-trichlorophenoxyacetic acid
2,4,5-TP	silvex
3D	3D International Environmental Group
Abs	skin absorption
AC	hydrogen cyanide
AcB2	Anniston and Allen gravelly loams, 2 to 6 percent slopes, eroded
AcC2	Anniston and Allen gravelly loams, 6 to 10 percent slopes, eroded
AcD2	Anniston and Allen gravelly loams, 10 to 15 percent slopes, eroded
AcE2	Anniston and Allen gravelly loams, 15 to 25 percent slopes, eroded
ACGIH	American Conference of Governmental Industrial Hygienists
ADEM	Alabama Department of Environmental Management
AEL	airborne exposure limit
AHA	ammunition holding area
AL	Alabama
amb.	amber
ANAD	Anniston Army Depot
APT	armor-piercing tracer
ASP	ammunition supply point
ASR	Archives Search Report
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
'B'	Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero)
BCT	BRAC Cleanup Team
BEHP	bis(2-ethylhexyl)phthalate
BFB	bromofluorobenzene
BG	Bacillus globigii
bgs	below ground surface
BHC	betahexachlorocyclohexane
bkg	background
bls	below land surface
BOD	biological oxygen demand
BRAC	Base Realignment and Closure
Braun	Braun Intertec Corporation
BTEX	benzene, toluene, ethyl benzene, and xylenes
BTOC	below top of casing
BW	biological warfare
BZ	breathing zone; 3-quinuclidinyl benzilate
C	ceiling limit value
Ca	carcinogen
CCAL	continuing calibration
CCB	continuing calibration blank
CD	compact disc
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERFA	Community Environmental Response Facilitation Act
CESAS	Corps of Engineers South Atlantic Savannah
CG	carbonyl chloride (phosgene)
CFC	chlorofluorocarbon
ch	inorganic clays of high plasticity
CHPPM	U.S. Army Center for Health Promotion and Preventive Medicine
CK	cyanogen chloride
cl	inorganic clays of low to medium plasticity
Cl.	chlorinated
CLP	Contract Laboratory Program
CN	chloroacetophenone
CNB	chloroacetophenone, benzene, and carbon tetrachloride
CNS	chloroacetophenone, chloropicrin, and chloroform
Co-60	cobalt-60
COC	chain of custody
COE	Corps of Engineers
Con	skin or eye contact
CRL	certified reporting limit
CRZ	contamination reduction zone
Cs-137	cesium-137
CS	ortho-chlorobenzylidene-malononitrile
CSEM	conceptual site exposure model
ctr.	container
CWA	chemical warfare agent
CWM	chemical warfare material; clear, wide mouth
CX	dichloroformoxime
D	duplicate; dilution
DANC	decontamination agent, non-corrosive
°C	degrees Celsius
°F	degrees Fahrenheit
DCE	dichloroethene
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethene
DDT	dichlorodiphenyltrichloroethane
DEH	Directorate of Engineering and Housing
DEP	depositional soil
DI	deionized
DIMP	di-isopropylmethylphosphonate
DMMP	dimethylmethylphosphonate
DOD	U.S. Department of Defense
DP	direct-push
DPDO	Defense Property Disposal Office
DPT	direct-push technology
DQO	data quality objective
DRMO	Defense Reutilization and Marketing Office
DRO	diesel range organics
DS	deep (subsurface) soil
DS2	Decontamination Solution Number 2
E&E	Ecology and Environment, Inc.
EBS	environmental baseline survey
Elev.	elevation
EM	electromagnetic
EM31	Geonics Limited EM31 Terrain Conductivity Meter
EM61	Geonics Limited EM61 High-Resolution Metal Detector
EOD	explosive and ordnance disposal
EODT	explosive and ordnance disposal team
EPA	U.S. Environmental Protection Agency
EPC	exposure point concentration
EPIC	Environmental Photographic Interpretation Center
ER	equipment rinsate
ESE	Environmental Science and Engineering, Inc.
ESV	ecological screening value
Exp.	explosives
E-W	east to west
EZ	exclusion zone
FB	field blank
FD	field duplicate
FedEx	Federal Express, Inc.
FFE	field flame expedient
Fil	filtered
Flt	filtered
FMP 1300	Former Motor Pool 1300
Foster Wheeler	Foster Wheeler Environmental Corporation
Frtn	fraction
FS	field split
ft	feet
ft/ft	feet per foot
FTA	Fire Training Area
FTMC	Fort McClellan
g	gram
G-856	Geometrics, Inc. G-856 magnetometer
G-858G	Geometrics, Inc. G-858G magnetic gradiometer
gal	gallon
gal/min	gallons per minute
GB	sarin
gc	clay gravels; gravel-sand-clay mixtures
GC	gas chromatograph
GC/MS	gas chromatograph/mass spectrometer
GFAA	graphite furnace atomic absorption
gm	silty gravels; gravel-sand-silt mixtures
gp	poorly graded gravels; gravel-sand mixtures
gpm	gallons per minute
GPR	ground-penetrating radar
GPS	global positioning system
GS	ground scar
GSA	General Services Administration
GSBP	Ground Scar Boiler Plant
GSSI	Geophysical Survey Systems, Inc.
GST	ground stain

GW	groundwater
gw	well-graded gravels; gravel-sand mixtures
HA	hand auger
HCl	hydrochloric acid
HD	distilled mustard
HDPE	high-density polyethylene
Herb.	herbicides
HNO_3	nitric acid
hr	hour
H&S	health and safety
HSA	hollow-stem auger
HTRW	hazardous, toxic, and radioactive waste
'I'	out of control, data rejected due to low recovery
ICAL	initial calibration
ICB	initial calibration blank
ICP	inductively-coupled plasma
ICS	interference check sample
ID	inside diameter
IDL	instrument detection limit
IDLH	immediately dangerous to life or health
IDW	investigation-derived waste
IMPA	isopropylmethyl phosphonic acid
in.	inch
Ing	ingestion
Inh	inhalation
IP	ionization potential
IPS	International Pipe Standard
IRDMIS	Installation Restoration Data Management Information System
ISCP	Installation Spill Contingency Plan
IT	IT Corporation
ITEMS	IT Environmental Management System ™
'J'	estimated concentration
JeB2	Jefferson gravelly fine sandy loam, 2 to 6 percent slopes, eroded
JeC2	Jefferson gravelly fine sandy loam, 6 to 10 percent slopes, eroded
JfB	Jefferson stony fine sandy loam, 0 to 10 percent slopes have strong slopes
K	conductivity
L	lewisite; liter
LC_{50}	lethal concentration for 50 percent of population tested
LD_{50}	lethal dose for 50 percent of population tested
l	liter
LCS	laboratory control sample
LEL	lower explosive limit
LT	less than the certified reporting limit
max	maximum
MDL	method detection limit
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mg/m^3	milligrams per cubic meter
mh	inorganic silts, micaceous or diatomaceous fine, sandy or silt soils
MHz	megahertz
µg/g	micrograms per gram
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
µmhos/cm	micromhos per centimeter
min	minimum
MINICAMS	miniature continuous air sampling system
ml	inorganic silts and very fine sands
mL	milliliter
mm	millimeter
MM	mounded material
MOGAS	motor vehicle gasoline
MPA	methyl phosphonic acid
MR	molasses residue
MS	matrix spike
mS/cm	millisiemens per centimeter
MSD	matrix spike duplicate
msl	mean sea level
MtD3	Montevallo shaly, silty clay loam, 10 to 40 percent slopes , severely eroded
mV	millivolts
MW	monitoring well
N/A	not applicable; not available
NAD	North American Datum
NAD83	North American Datum of 1983
NAVD88	North American Vertical Datum of 1988
ND	not detected
NE	no evidence; northeast
NFA	No Further Action
ng/L	nanograms per liter
NGVD	National Geodetic Vertical Datum
NIC	notice of intended change
NIOSH	National Institute for Occupational Safety and Health
No.	number
NOAA	National Oceanic and Atmospheric Administration
NR	not requested
ns	nanosecond
N-S	north to south
nT	nanotesla
NTU	nephelometric turbidity unit
O&G	oil and grease
OD	outside diameter
OE	ordnance and explosives
oh	organic clays of medium to high plasticity
ol	organic silts and organic silty clays of low plasticity
OP	organophosphorus
ORP	oxidation-reduction potential
OSHA	Occupational Safety and Health Administration
OWS	oil/water separator
oz	ounce
PAH	polynuclear aromatic hydrocarbon
Parsons	Parsons Engineering Science, Inc.
Pb	lead
PCB	polychlorinated biphenyl
PCE	perchloroethene
PCP	pentachlorophenol
PDS	Personnel Decontamination Station
PEL	permissible exposure limit
Pest.	pesticide
PG	professional geologist
PID	photoionization detector
PkA	Philo and Stendal soils local alluvium, 0 to 2 percent slopes
POL	petroleum, oils, and lubricants
PP	peristaltic pump
ppb	parts per billion
PPE	personal protective equipment
ppm	parts per million
PPMP	Print Plant Motor Pool
ppt	parts per thousand
PSSC	potential site-specific chemical
pt	peat or other highly organic silts
PVC	polyvinyl chloride
QA	quality assurance
QA/QC	quality assurance/quality control
QAP	installation-wide quality assurance plan
QC	quality control
QST	QST Environmental Inc.
qty	quantity
Qual	qualifier
'R'	rejected; resample
RCRA	Resource Conservation and Recovery Act
RDX	cyclonite
ReB3	Rarden silty clay loams
REG	field sample
REL	recommended exposure limit
RFA	request for analysis
RI	remedial investigation
RL	reporting limit
RPD	relative percent difference
RRF	relative response factor
RSD	relative standard deviation
RTK	real-time kinematic
SAD	South Atlantic Division
SAE	Society of Automotive Engineers
SAIC	Science Applications International Corporation
SAP	installation-wide sampling and analysis plan

List of Abbreviations and Acronyms *(Continued)*

sc	clayey sands; sand-clay mixtures
Sch.	schedule
SD	sediment
SDG	sample delivery group
SDZ	safe distance zone; surface danger zone
SEMS	Southern Environmental Management & Specialties, Inc.
SFSP	site-specific field sampling plan
SGF	standard grade fuels
SHP	installation-wide safety and health plan
SI	site investigation
SL	standing liquid
sm	silty sands; sand-silt mixtures
SM	Serratia marcescens
SOP	standard operating procedure
sp	poorly graded sands; gravelly sands
SP	sump pump
Sr-90	strontium-90
Ss	stony rough land, sandstone series
SS	surface soil
SSC	site-specific chemical
SSHO	site safety and health officer
SSHP	site-specific safety and health plan
SSSL	site-specific screening level
STB	supertropical bleach
STEL	short-term exposure limit
STOLS	Surface Towed Ordnance Locator System®
Std. units	standard units
SU	standard unit
SVOC	semivolatile organic compound
SW	surface water
SW-846	U.S. EPA *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*
SZ	support zone
TAL	target analyte list
TAT	turn around time
TB	trip blank
TCA	trichloroethane
TCDD	2.3.7.8-tetrachlorodibenzo-p-dioxin
TCDF	tetrachlorodibenzofurans
TCE	trichloroethene
TCL	target compound list
TCLP	toxicity characteristic leaching procedure
TDGCL	thiodiglycol
TDGCLA	thiodiglycol chloroacetic acid
TERC	Total Environmental Restoration Contract
TIC	tentatively identified compound
TLV	threshold limit value
TN	Tennessee
TOC	top of casing; total organic carbon
TPH	total petroleum hydrocarbons
TRADOC	U.S. Army Training and Doctrine Command
TRPH	total recoverable petroleum hydrocarbons
TWA	time weighted average
UCL	upper confidence limit
UCR	upper certified range
'U'	not detected above reporting limit
USACE	U.S. Army Corps of Engineers
USACHPPM	U.S. Army Center for Health Promotion and Preventive Medicine
USAEC	U.S. Army Environmental Center
USAEHA	U.S. Army Environmental Hygiene Agency
USACMLS	U.S. Army Chemical School
USAMPS	U.S. Army Military Police School
USATEU	U.S. Army Technical Escort Unit
USATHAMA	U.S. Army Toxic and Hazardous Material Agency
USCS	Unified Soil Classification System
USDA	U.S. Department of Agriculture
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
UXO	unexploded ordnance
VOA	volatile organic analyte
VOC	volatile organic compound
VOH	volatile organic hydrocarbon
VQlfr	validation qualifier
VQual	validation qualifier
VX	nerve agent (O-ethyl-S-[diisopropylaminoethyl]-methylphosphonothiolate)
Weston	Roy F. Weston, Inc.
WP	installation-wide work plan
WS	watershed
WSA	Watershed Screening Assessment
WWI	World War I
WWII	World War II
XRF	x-ray fluorescence
yd^3	cubic yards

SAIC – Data Qualifiers, Codes and Footnotes, 1995 Remedial Investigation

N/A – Not analyzed

ND – Not detected

Boolean Codes

LT – Less than the certified reporting limit

Flagging Codes

9 – Non-demonstrated/validated method performed for USAEC

B – Analyte found in the method blank or QC blank

C – Analysis was confirmed

D – Duplicate analysis

I – Interfaces in sample make quantitation and/or identification to be suspicious

J – Value is estimated

K – Reported results are affected by interfaces or high background

N – Tentatively identified compound (match greater than 70%)

Q – Sample interference obscured peak of interest

R – Non-target compound analyzed for but not detected (GC/MS methods)

S – Non-target compound analyzed for and detected (GC/MS methods)

T – Non-target compound analyzed for but not detected (non GC/MS methods)

U – Analysis in unconfirmed

Z – Non-target compound analyzed for and detected (non-GC/MS methods)

Qualifiers

J – The low-spike recovery is low

N – The high-spike recovery is low

R – Data is rejected

APPENDIX A
SAMPLE COLLECTION LOGS AND ANALYSIS REQUEST/ CHAIN-OF-CUSTODY RECORDS

SAMPLE COLLECTION LOGS

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan

Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: **Former Gas Mask Test Chambers (Parcel 19**

Location Code: **FTA-195-GP01**

Sample Number: **DT0001**

Sample Name: **FTA-195-GP01-SS-DT0001-REG**

Sampling Method: **HA**

Collection Date: 11-04-98

Collection Time: 1345

Start Depth: Ø

End Depth: 1

Sample Team: Allen, Short

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES_	N	B	1	8	oz	CWM

Comments: _____

Sketch Location:

Logged BY / Date: _____ *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: Former Gas Mask Test Chambers (Parcel 19
Location Code: FTA-195-GP01
Sample Number: DT0001-MS
Sample Name: FTA-195-GP01-SS-DT0001-MS
Sampling Method: HA

Collection Date: 11-04-98
Collection Time: 1345

Start Depth: Ø
End Depth: 1

Sample Team: Allen, Short

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES_	N	B	1	8	oz	CWM

Comments: _____

Sketch Location:

Logged BY / Date: _____

Reviewed BY / Date: _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: Former Gas Mask Test Chambers (Parcel 19!
Location Code: FTA-195-GP01
Sample Number: DT0001-MSD
Sample Name: FTA-195-GP01-SS-DT0001-MSD
Sampling Method: HA

Collection Date: 11-04-98
Collection Time: 1345

Start Depth: Ø
End Depth: 1

Sample Team: Allen, Short

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES	3	N	A	3	5	g	EnCore
METALS-S		N	B	1	8	oz	CWM
SEMIVOLATILES		N	B	1	8	oz	CWM

Comments: _____

Sketch Location:

Logged BY / Date: _____ *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: **774645 Fort McClellan**
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: **Former Gas Mask Test Chambers (Parcel 19**
Location Code: **FTA-195-GP01**
Sample Number: **DT0003**
Sample Name: **FTA-195-GP01-SS-DT0003-FD**
Sampling Method: **DP**

Collection Date: 11-04-98
Collection Time: 1345

Start Depth: Ø
End Depth: 1

Sample Team: Allen, Short

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES	N	B	1	8	oz	CWM

Comments: _____

Sketch Location:

Logged BY / Date: _____ *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: **774645 Fort McClellan**
Manager: **Jeanie Yacoub**

RFA / COC Number: _____

Site: **Former Gas Mask Test Chambers (Parcel 19**
Location Code: **FTA-195-GP01**
Sample Number: **DT0004**
Sample Name: **FTA-195-GP01-SS-DT0004-FS**
Sampling Method: **DP**

Collection Date: ~~Allen~~ 11-04-98
Collection Time: 1345

Start Depth: Ø
End Depth: 1

Sample Team: Allen, Short

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES_	N	B	1	8	oz	CWM

Comments: _____

Sketch Location:

Logged BY / Date: _____ *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: Former Gas Mask Test Chambers (Parcel 19
Location Code: FTA-195-GP02
Sample Number: DT0005
Sample Name: FTA-195-GP02-SS-DT0005-REG
Sampling Method: HA

Collection Date: 10-29-98
Collection Time: 1540

Start Depth: Ø
End Depth: 1

Sample Team: Allen, Short

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES_	N	B	1	8	oz	CWM

Comments: _____

Sketch Location:

Logged BY / Date: _____ *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: Former Gas Mask Test Chambers (Parcel 19
Location Code: FTA-195-GP03
Sample Number: DT0007
Sample Name: FTA-195-GP03-SS-DT0007-REG
Sampling Method: HA

Collection Date: 10-29-98
Collection Time: 1515

Start Depth: Ø
End Depth: 1

Sample Team: Allen, Short

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES_	N	B	1	8	oz	CWM

Comments: _____

Sketch Location:

Logged BY / Date: _____ *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: Former Gas Mask Test Chambers (Parcel 19
Location Code: FTA-195-GP04
Sample Number: DT0009
Sample Name: FTA-195-GP04-SS-DT0009-REG
Sampling Method: HA

Collection Date: 10-29-98
Collection Time: 1445

Start Depth: Ø
End Depth: 1

Sample Team: Allen, Short

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES	N	B	1	8	oz	CWM

Comments: _____

Sketch Location:

Logged BY / Date: _____ *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: Former Gas Mask Test Chambers (Parcel 19!
Location Code: FTA-195-GP01
Sample Number: DT0002
Sample Name: FTA-195-GP01-DS-DT0002-REG
Sampling Method: DP

Collection Date: 11-04-98
Collection Time: 1415
Start Depth: 4
End Depth: 8

Sample Team: Allen, Shoni

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES_	N	B	1	8	oz	CWM

Comments: Refusal @ 8

Sketch Location:

Logged BY / Date: _____ *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: Former Gas Mask Test Chambers (Parcel 19!
Location Code: FTA-195-GP02
Sample Number: DT0006
Sample Name: FTA-195-GP02-DS-DT0006-REG
Sampling Method: DP

Collection Date: 10-29-98
Collection Time: 1555
Start Depth: 2
End Depth: 4
Sample Team: Allen, Short

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES_	N	B	1	8	oz	CWM

Comments: _____

Sketch Location:

Logged BY / Date: _____ *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number:

Site: Former Gas Mask Test Chambers (Parcel 19
Location Code: FTA-195-GP03
Sample Number: DT0008
Sample Name: FTA-195-GP03-DS-DT0008-REG
Sampling Method: DP

Collection Date: 10-29-98
Collection Time: 1520

Start Depth: 2
End Depth: 3

Sample Team: Allen, Short

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES_	N	B	1	8	oz	CWM

Comments: Refusal @ 3

Sketch Location:

Logged BY / Date: _____ *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: **774645 Fort McClellan**
Manager: **Jeanie Yacoub**

RFA / COC Number: _____

Site: **Former Gas Mask Test Chambers (Parcel 19**
Location Code: **FTA-195-GP04**
Sample Number: **DT0010**
Sample Name: **FTA-195-GP04-DS-DT0010-REG**
Sampling Method: **DP**

Collection Date: 10-29-98
Collection Time: 1455

Start Depth: 3
End Depth: 5

Sample Team: Allen, Short

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES 3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES	N	B	1	8	oz	CWM

Comments: _____

Sketch Location:

Logged BY / Date: _____

Reviewed BY / Date: _____

ANALYSIS REQUEST/CHAIN OF CUSTODY RECORDS

Quote# 25476 HSJ300114

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 195-102998-QSK

Project Number: 774645

Project Name: Fort McClellan

Sample Coordinator: John W. Andrew

Turnaround Time: NORMAL

Samples Shipment Date: 29-OCT-98

Lab Destination: Quanterra Environmental Services - Knoxville

Lab Contact: John Reynolds

Project Contact: Randy McBride

Carrier/Waybill No.: Quality Express/ Courier

Bill To: TERC Accounting
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] ITG	Date: 102998 Time: 1800	1. Received By (Signature/Affiliation) [signature]	Date: 10 29 98 Time: 1800
2. Relinquished By (Signature/Affiliation) [signature]	Date: 10 30 98 Time: 0800	2. Received By (Signature/Affiliation) [signature]	Date: 10/30/98 Time: 0800
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
DT0005	FTA-195-GP02-SS-DT0005-REG	29-OCT-98	15:40	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
DT0005	FTA-195-GP02-SS-DT0005-REG	29-OCT-98	15:40	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
DT0006	FTA-195-GP02-DS-DT0006-REG	29-OCT-98	15:55	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
DT0006	FTA-195-GP02-DS-DT0006-REG	29-OCT-98	15:55	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
DT0007	FTA-195-GP03-SS-DT0007-REG	29-OCT-98	15:15	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
DT0007	FTA-195-GP03-SS-DT0007-REG	29-OCT-98	15:15	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		

001107

H8J300114

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 195-102998-QSK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
DT0008	FTA-195-GP03-DS-DT0008-REG	29-OCT-98	15:20	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
DT0008	FTA-195-GP03-DS-DT0008-REG	29-OCT-98	15:20	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
DT0009	FTA-195-GP04-SS-DT0009-REG	29-OCT-98	14:45	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
DT0009	FTA-195-GP04-SS-DT0009-REG	29-OCT-98	14:45	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
DT0010	FTA-195-GP04-DS-DT0010-REG	29-OCT-98	14:55	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
DT0010	FTA-195-GP04-DS-DT0010-REG	29-OCT-98	14:55	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		

H8K050125

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 195-110498-QSK

Project Number: 774645

Project Name: Fort McClellan

Sample Coordinator: John W. Andrew

Turnaround Time: NORMAL

Samples Shipment Date: 04-NOV-98

Lab Destination: Quanterra Environmental Services - Knoxville

Lab Contact: John Reynolds

Project Contact: Randy McBride

Carrier/Waybill No.: Quality Express/ Courier

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 11-04-98 Time: 1730	1. Received By (Signature/Affiliation)	Date: 11 4 98 Time: 1730
2. Relinquished By (Signature/Affiliation)	Date: 11 5 98 Time: 0810	2. Received By (Signature/Affiliation)	Date: 11/5/98 Time: 0810
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: CAUTION: possible contamination w/ CS Tear Gas. (powder/crystal form)
Rec'd at 2°C
Custody Seals Intact
JW 11-5-98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
DT0001	FTA-195-GP01-SS-DT0001-REG	04-NOV-98	13:45	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
DT0001	FTA-195-GP01-SS-DT0001-REG	04-NOV-98	13:45	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
DT0001-MS	FTA-195-GP01-SS-DT0001-MS-MS	04-NOV-98	13:45	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
DT0001-MS	FTA-195-GP01-SS-DT0001-MS-MS	04-NOV-98	13:45	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
DT0001-MSD	FTA-195-GP01-SS-DT0001-MSD-MSD	04-NOV-98	13:45	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
DT0001-MSD	FTA-195-GP01-SS-DT0001-MSD-MSD	04-NOV-98	13:45	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		

148K050125

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 195-110498-QSK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
DT0002 /	FTA-195-GP01-DS-DT0002-REG	04-NOV-98	14:45	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
DT0002 /	FTA-195-GP01-DS-DT0002-REG	04-NOV-98	14:45	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
DT0003	FTA-195-GP01-SS-DT0003-FD	04-NOV-98	13:45	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
DT0003	FTA-195-GP01-SS-DT0003-FD	04-NOV-98	13:45	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		

APPENDIX B
BORING LOGS

HTRW DRILLING LOG

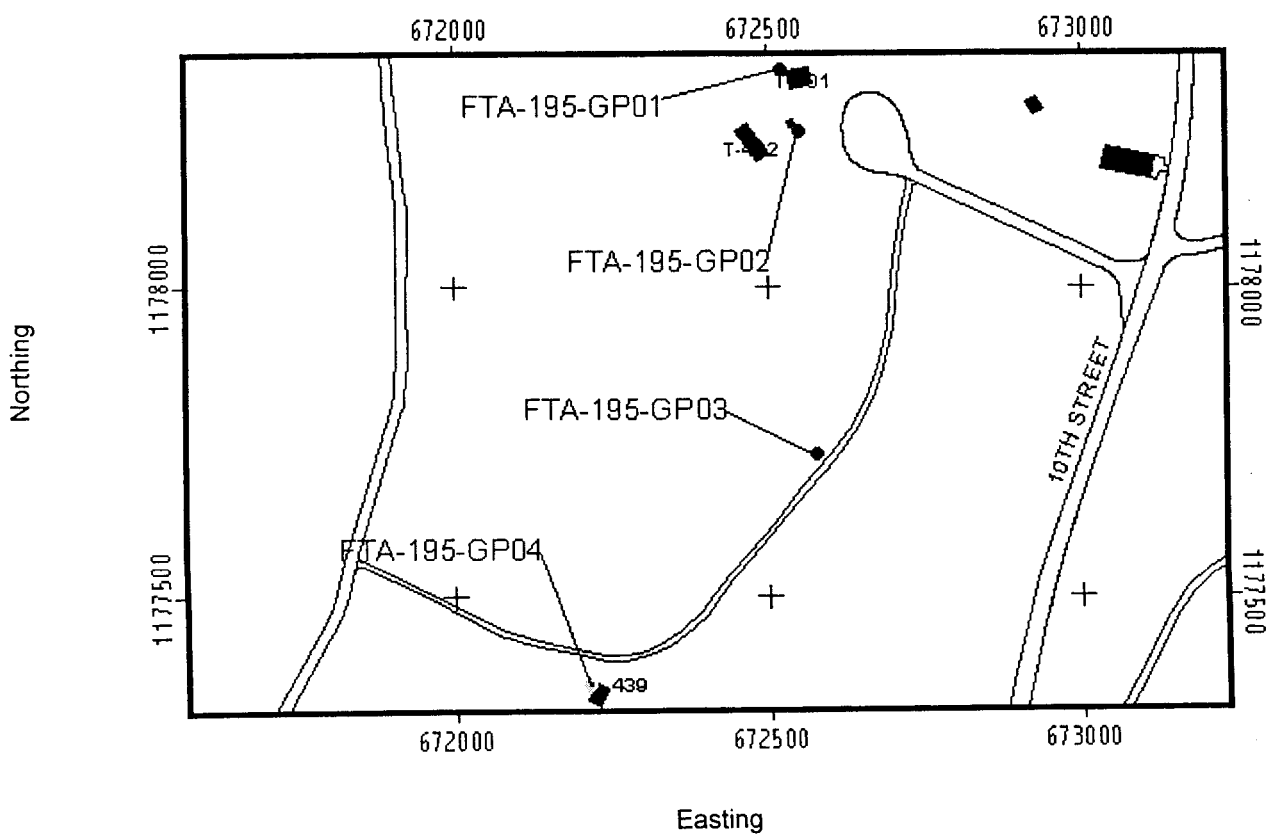
HOLE NUMBER
FTA-195-GP01

1. Company name: IT Corporation	2. Drill Subcontractor: TEG	Sheet 1 of 2 sheets

3. Project: Fort McClellan	4. Location: Former Gas Mask Test Chambers
5. Name of driller: Sammy McDaniels	6. Mfr designation of drill: Geoprobe
7. Sizes and types of drilling and sampling equipment: Direct Push 4'x2" acetate-lined sampler	8. Hole location FTA-195-GP01 9. Surface elevation (feet above mean sea level): 767.540 10. Date started: 11/04/98 11. Date completed: 11/04/98
12. Overburden thickness (feet bgs): >8	15. Depth groundwater encountered (feet bgs):
13. Depth drilled into rock (feet bgs):	16. Depth to water and elapsed time after drilling completed (feet bgs):
14. Total depth of hole (feet bgs): 8	17. Other water level measurements (specify):

18. Geotechnical samples:	Disturbed:	Undisturbed:		19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	SVOCs			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist: CAROLYN SHORT		
	X					

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: FTA-195-GP01

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-195-GP01

Project: Fort McClellan | Geologist: CAROLYN SHORT | Sheet 2 of 2 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
	0	cl: CLAY, some Sand, dry hard, yellowish brown, >% Sand at bottom, reddish brown, some Gravel, large angular.	cl		Organic Vapor = 2.1ppm		DT0001		Rec 1.0'
	1	NA: No recovery							
	2								
765			NA						
	3								
	4	cl: CLAY, some Sand, damp, firm, dark reddish brown, >% Sand at bottom, yellowish brown.			Organic Vapor = 0.3ppm				Rec 48"
	5								
	6		cl				DT0002		
	7								
760									Direct push refusal at 8.0'. Bottom at 8.0'.
	8								

HTRW DRILLING LOG

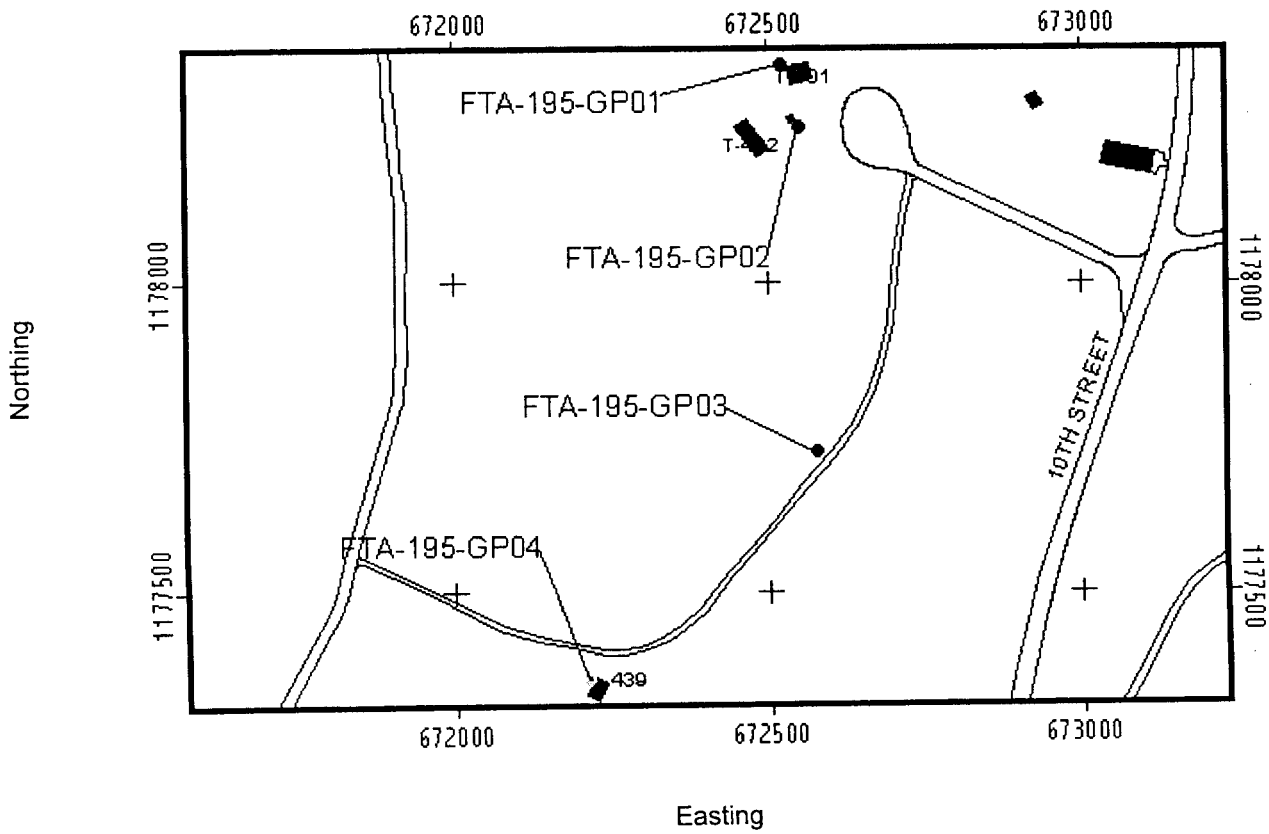
HOLE NUMBER	FTA-195-GP02

1. Company name: IT Corporation	2. Drill Subcontractor: TEG	Sheet 1 of 2 sheets

3. Project: Fort McClellan	4. Location: Former Gas Mask Test Chambers
5. Name of driller: Sammy McDaniels	6. Mfr designation of drill: Geoprobe
7. Sizes and types of drilling and sampling equipment: Direct Push; 4'x2" acetate-lined sampler	8. Hole location FTA-195-GP02
	9. Surface elevation (feet above mean sea level): 769.910
	10. Date started: 10/29/98 — 11. Date completed: 10/29/98
12. Overburden thickness (feet bgs): >4	15. Depth groundwater encountered (feet bgs):
13. Depth drilled into rock (feet bgs):	16. Depth to water and elapsed time after drilling completed (feet bgs):
14. Total depth of hole (feet bgs): 4	17. Other water level measurements (specify):

18. Geotechnical samples:	Disturbed:	Undisturbed:		19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	SVOCs			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist: CAROLYN SHORT		
	X					

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: FTA-195-GP02

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-195-GP02

Project: Fort McClellan | Geologist: CAROLYN SHORT | Sheet 2 of 2 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
	0	gc-cl: CLAY, dry, hard, very dark red, abundant large Gravel, broken Chert.	gc-cl		Organic Vapor = 0.2ppm		DT0005		Rec 1.0'
	1	gc-cl: CLAY, dry, hard, very dark red, abundant large Gravel, broken Chert.	gc-cl		Organic Vapor = 0.2ppm				Rec 1.0'
	2	gc-cl: CLAY, dry, hard, very dark red, abundant large Gravel, broken Chert.	gc-cl		Organic Vapor = 0.1ppm		DT0006		Rec 2.0'
	3								Direct push refusal at 4.0'.
	4								

HTRW DRILLING LOG

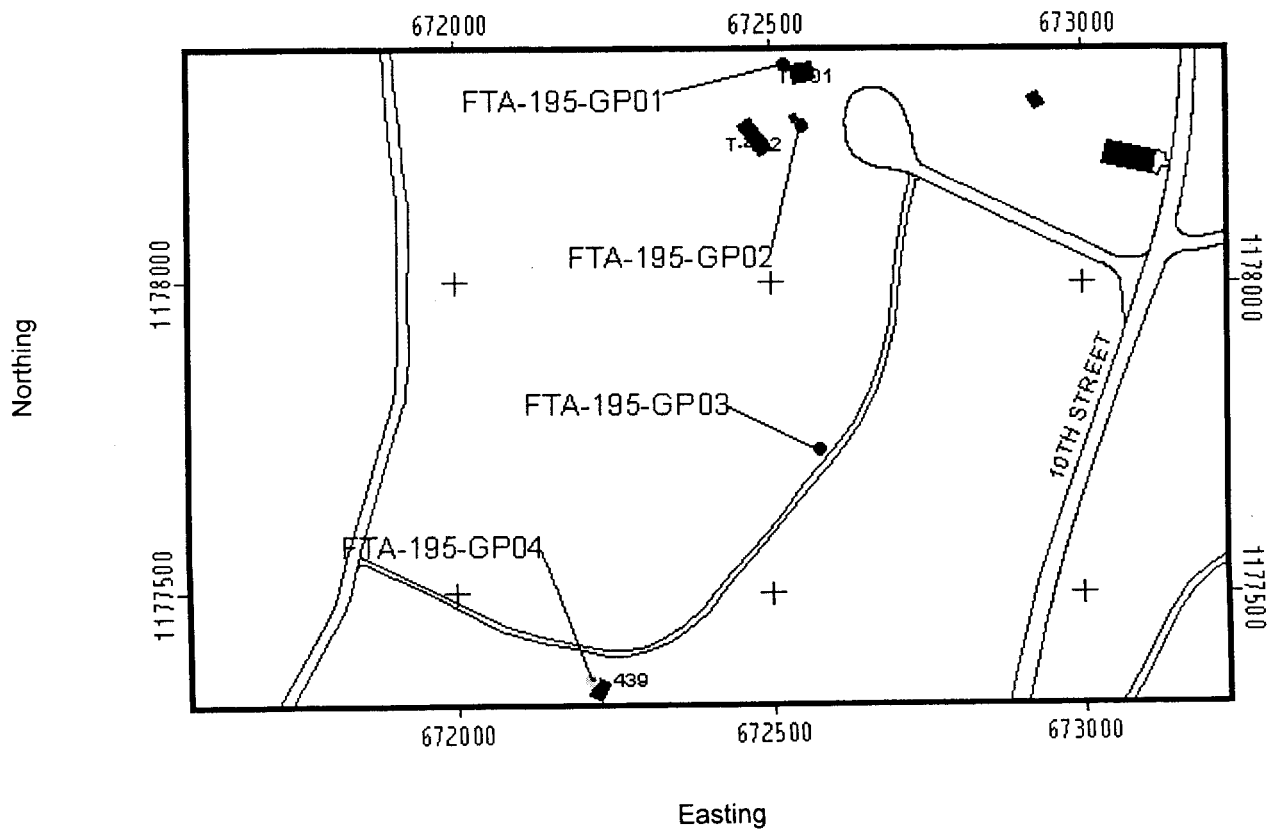
HOLE NUMBER FTA-195-GP03

1. Company name: **IT Corporation**	2. Drill Subcontractor: TEG	Sheet 1 of 2 sheets

3. Project: Fort McClellan	4. Location: Former Gas Mask Test Chambers
5. Name of driller: Sammy McDaniels	6. Mfr designation of drill: Geoprobe
7. Sizes and types of drilling and sampling equipment: Direct Push 4'x2" acetate-lined samplers	8. Hole location FTA-195-GP03 9. Surface elevation (feet above mean sea level): 770.420 10. Date started: 10/29/98 11. Date completed: 10/29/98
12. Overburden thickness (feet bgs): >3	15. Depth groundwater encountered (feet bgs):
13. Depth drilled into rock (feet bgs):	16. Depth to water and elapsed time after drilling completed (feet bgs):
14. Total depth of hole (feet bgs): 3	17. Other water level measurements (specify):

18. Geotechnical samples:	Disturbed:		Undisturbed:	19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	SVOCs			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X			CAROLYN SHORT		

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: FTA-195-GP03

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-195-GP03

Project: Fort McClellan | Geologist: CAROLYN SHORT | Sheet 2 of 2 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
770	0	cl: CLAY, dry, hard, very dark reddish brown, mottles, yellowish, orange, broken Sandstone at 10in., 13in., 16in., 18-20 inches.	cl		Organic Vapor = 0.4ppm		DT0007		Rec 1.0'
	1	cl: CLAY, dry, hard, very dark reddish brown, mottles, yellowish, orange, broken Sandstone at 10in., 13in., 16in., 18-20 in.	cl		Organic Vapor = 0.4ppm				Rec 1.0'
	2	cl: CLAY, dry, hard, very dark reddish brown, mottles, yellowish, orange, broken Sandstone at 10in., 13in., 16in., 18-20 in.	cl		Organic Vapor = 11.3ppm		DT0008		Rec 14" Direct push refusal at 3.0'.
	3								

HTRW DRILLING LOG

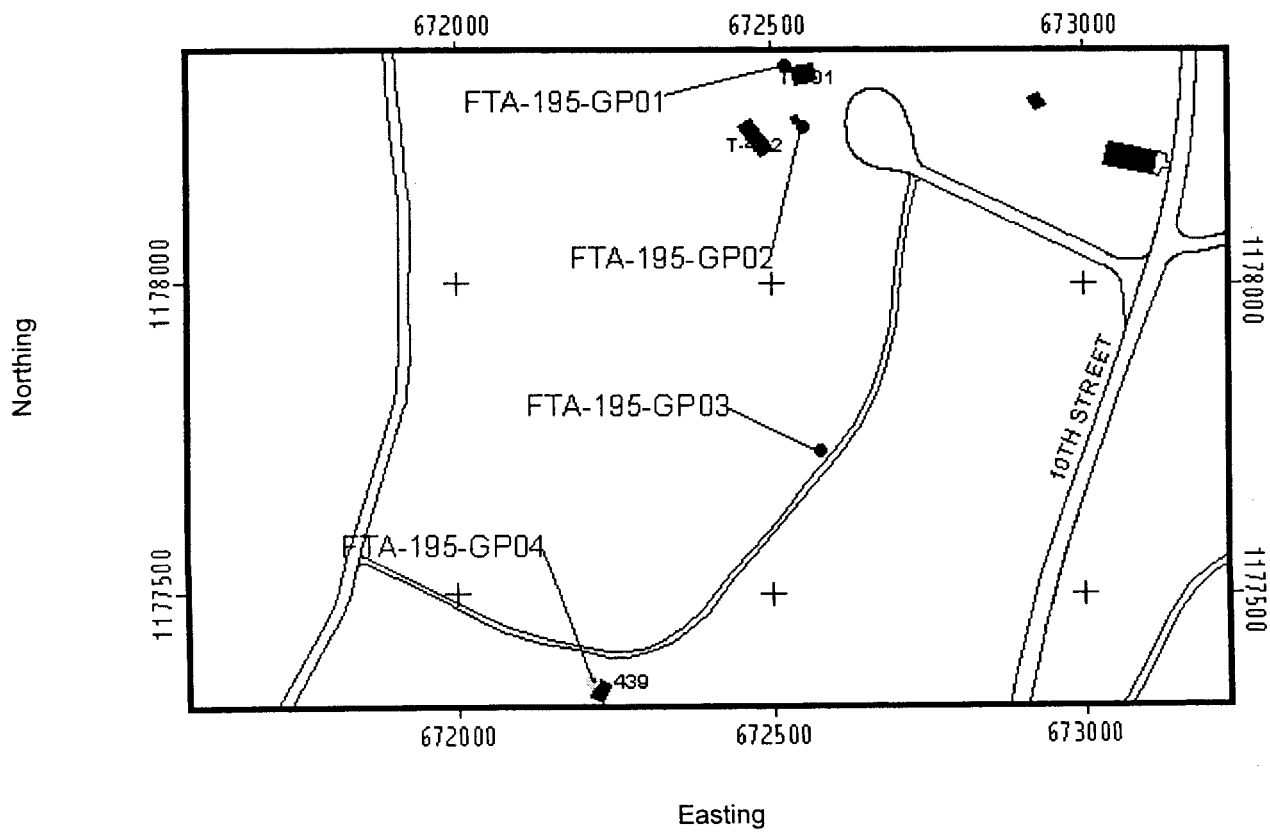
HOLE NUMBER	FTA-195-GP04

1. Company name: IT Corporation	2. Drill Subcontractor: TEG	Sheet 1 of 2 sheets

3. Project: Fort McClellan	4. Location: Former Gas Mask Test Chambers
5. Name of driller: Sammy McDaniels	6. Mfr designation of drill: Geoprobe
7. Sizes and types of drilling and sampling equipment: Direct Push 4'x2" acetate-lined sampler	8. Hole location FTA-195-GP04 9. Surface elevation (feet above mean sea level): 810.52 10. Date started: 10/29/98 11. Date completed: 10/29/98
12. Overburden thickness (feet bgs): >5	15. Depth groundwater encountered (feet bgs):
13. Depth drilled into rock (feet bgs):	16. Depth to water and elapsed time after drilling completed (feet bgs):
14. Total depth of hole (feet bgs): 5	17. Other water level measurements (specify):

18. Geotechnical samples:	Disturbed:	Undisturbed:		19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	SVOCs			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X			CAROLYN SHORT		

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan	bgs= below ground surface NA = Not applicable	Hole no.: FTA-195-GP04

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-195-GP04

Project: Fort McClellan | Geologist: CAROLYN SHORT | Sheet 2 of 2 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
810	0	ml: SILT, damp, firm, some Sand, yellowish brown, mottled dark brick red, yellowish red, some broken Sandstone, coarse Sand.	ml		Organic Vapor = 0.1ppm		DT0009		Rec 1.0'
	1	ml: SILT, damp, firm, some Sand, yellowish brown, mottled dark brick red, yellowish red, some broken Sandstone, coarse Sand.	ml		Organic Vapor = 0.1ppm				Rec 1.0'
	2	ml: SILT, damp, firm, some Clay, Sand, reddish yellow, dark red, yellowish brown, broken Sandstone, pale yellowish white at 9in., 12in.,18in., 22in.	ml		Organic Vapor = 0.1ppm				Rec 2.0'
	3								
	4	cl: CLAY, dry, hard, some Sand, mottled reddish yellow, dark red, yellowish brown.	cl				DT0010		Refusal at 5.0'.
	5								

APPENDIX C

SURVEY DATA

Appendix C

Survey Data
Former Gas Mask Test Chambers
Parcels 195(7), 196(7), and 198(7)
Fort McClellan, Calhoun County Alabama

Sample Location	Northing	Easting	Ground Elevation (ft msl)	Top of Casing Elevation (ft msl)
FTA-195-GP01	1178348.92	672523.34	767.54	NA
FTA-195-GP02	1178249.22	672552.54	769.91	NA
FTA-195-GP03	1177729.33	672577.29	770.42	NA
FTA-195-GP04	1177355.32	672212.35	810.52	NA

Horizontal coordinates were referenced to the U.S. State Plane Coordinate System, Alabama East Zone, North American Datum (NAD83), 1983

Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

ft msl - Feet mean seal level.
NA - Not available, temporary well not installed.

APPENDIX D

SUMMARY OF VALIDATED ANALYTICAL DATA

Summary of Valid. Surface Soil Data
Former Gas Mask Test Chambers (Parcel 195, 196, 198)
Fort McClellan, Alabama

Report Date: 06/26/00

	Location Code:	FTA-195-GP01			FTA-195-GP01			FTA-195-GP02			FTA-195-GP03		
	Associated Site:	FTA-195			FTA-195			FTA-195			FTA-195		
	Sample No:	DT0001			DT0003			DT0005			DT0007		
	Sample Date:	04-NOV-98			04-NOV-98			29-OCT-98			29-OCT-98		
User Test Group	*Sample Depth:*	0 - 1			0 - 1			0 - 1			0 - 1		
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
METALS													
SW6010_S													
Aluminum	mg/kg	6200			5940			8380			13900		
Antimony	mg/kg	6.7	U	U	6.7	U	U	6.4	U	U	6.8	U	U
Arsenic	mg/kg	4.7		J	4.6		J	4.4		J	6.3		J
Barium	mg/kg	37.7			33.2			60.1			85.0		
Beryllium	mg/kg	0.56	U	U	0.55	U	U	0.53	U	U	0.68		
Cadmium	mg/kg	0.56	U	U	0.55	U	U	0.53	U	U	0.57	U	U
Calcium	mg/kg	7180		J	1630		J	17800		J	567	U	R
Chromium	mg/kg	11.9		J	10.7		J	18.3		J	38.3		J
Cobalt	mg/kg	5.6	U	UJ	5.5	U	UJ	7.2			9.9		J
Copper	mg/kg	6.8			6.5			6.6			6.8		
Iron	mg/kg	9480			9280			15600			24100		
Lead	mg/kg	14.5			12.9			29.2			21.9		
Magnesium	mg/kg	3910		J	864		J	8820		J	567	U	UJ
Manganese	mg/kg	662			526			621			561		
Nickel	mg/kg	4.5	U	U	4.4	U	U	4.9			8.1		
Potassium	mg/kg	557	U	U	555	U	U	532	U	U	567	U	U
Selenium	mg/kg	0.56	U	U	0.55	U	U	0.53	U	U	0.57	U	U
Silver	mg/kg	1.1	U	U	1.1	U	U	1.1	U	U	1.1	U	U
Sodium	mg/kg	557	U	U	555	U	U	532	U	U	567	U	U
Thallium	mg/kg	1.1	U	U	1.1	U	U	1.1	U	U	1.1	U	U
Vanadium	mg/kg	12.0			9.5			20.1			27.4		
Zinc	mg/kg	41.4			41.7			41.4			19.2		B
SW7471_S													
Mercury	mg/kg	0.037	U	U	0.037	U	U	0.061			0.078		
SEMIVOLATILES													
SW8270_S													
1,2,4-Trichlorobenzene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
1,2-Dichlorobenzene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
1,3-Dichlorobenzene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
1,4-Dichlorobenzene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U

Summary of Validated Surface Soil Data
Former Gas Mask Test Chambers (Parcel 195, 196, 198)
Fort McClellan, Alabama

Report Date: 06/26/00

	Location Code:	FTA-195-GP04		
	Associated Site:	FTA-195		
	Sample No:	DT0009		
	Sample Date:	29-OCT-98		
User Test Group	*Sample Depth:*	0 - 1		
Lab Method / *Parameter*	*Units*	*Result*	*Qual*	*VQual*
METALS				
SW6010_S				
Aluminum	mg/kg	4900		
Antimony	mg/kg	6.6	U	U
Arsenic	mg/kg	3.7		J
Barium	mg/kg	28.4		
Beryllium	mg/kg	0.55	U	U
Cadmium	mg/kg	0.55	U	U
Calcium	mg/kg	546	U	R
Chromium	mg/kg	49.6		J
Cobalt	mg/kg	5.5	U	UJ
Copper	mg/kg	5.8		
Iron	mg/kg	16600		
Lead	mg/kg	9.2		
Magnesium	mg/kg	546	U	UJ
Manganese	mg/kg	117		
Nickel	mg/kg	4.4	U	U
Potassium	mg/kg	546	U	U
Selenium	mg/kg	0.74		
Silver	mg/kg	1.1	U	U
Sodium	mg/kg	546	U	U
Thallium	mg/kg	1.1	U	U
Vanadium	mg/kg	16.5		
Zinc	mg/kg	24.2		B
SW7471_S				
Mercury	mg/kg	0.036		
SEMIVOLATILES				
SW8270_S				
1,2,4-Trichlorobenzene	mg/kg	.36	U	U
1,2-Dichlorobenzene	mg/kg	.36	U	U
1,3-Dichlorobenzene	mg/kg	.36	U	U
[illegible] Dichlorobenzene	mg/kg	.36	U	U

	Location Code:	FTA-195-GP01			FTA-195-GP01			FTA-195-GP02			FTA-195-GP03		
	Associated Site:	FTA-195			FTA-195			FTA-195			FTA-195		
	Sample No:	DT0001			DT0003			DT0005			DT0007		
	Sample Date:	04-NOV-98			04-NOV-98			29-OCT-98			29-OCT-98		
User Test Group	Sample Depth:	0 - 1			0 - 1			0 - 1			0 - 1		
Lab Method / Parameter	Units	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual
SEMIVOLATILES													
SW8270_S													
2,4,5-Trichlorophenol	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
2,4,6-Trichlorophenol	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
2,4-Dichlorophenol	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
2,4-Dimethylphenol	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
2,4-Dinitrophenol	mg/kg	1.8	U	U	1.8	U	U	1.7	U	U	1.8	U	U
2,4-Dinitrotoluene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
2,6-Dinitrotoluene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
2-Chloronaphthalene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
2-Chlorophenol	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
2-Methylnaphthalene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
2-Methylphenol	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
2-Nitroaniline	mg/kg	1.8	U	U	1.8	U	U	1.7	U	U	1.8	U	U
2-Nitrophenol	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
3,3'-Dichlorobenzidine	mg/kg	1.8	U	U	1.8	U	U	1.7	U	U	1.8	U	U
3-Nitroaniline	mg/kg	1.8	U	U	1.8	U	U	1.7	U	U	1.8	U	U
4,6-Dinitro-2-methylphenol	mg/kg	1.8	U	U	1.8	U	U	1.7	U	U	1.8	U	U
4-Bromophenyl phenyl ether	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
4-Chloro-3-methylphenol	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
4-Chloroaniline	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
4-Chlorophenyl phenyl ether	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
4-Methylphenol	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
4-Nitroaniline	mg/kg	1.8	U	U	1.8	U	U	1.7	U	U	1.8	U	U
4-Nitrophenol	mg/kg	1.8	U	U	1.8	U	U	1.7	U	U	1.8	U	UJ
Acenaphthene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Acenaphthylene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Anthracene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Benzo(a)anthracene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Benzo(a)pyrene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Benzo(b)fluoranthene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Benzo(ghi)perylene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Benzo(k)fluoranthene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U

	Location Code:	FTA-195-GP04		
	Associated Site:	FTA-195		
	Sample No:	DT0009		
	Sample Date:	29-OCT-98		
User Test Group	*Sample Depth:*	0 - 1		
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*
SEMIVOLATILES				
SW8270_S				
2,4,5-Trichlorophenol	mg/kg	.36	U	U
2,4,6-Trichlorophenol	mg/kg	.36	U	U
2,4-Dichlorophenol	mg/kg	.36	U	U
2,4-Dimethylphenol	mg/kg	.36	U	U
2,4-Dinitrophenol	mg/kg	1.7	U	U
2,4-Dinitrotoluene	mg/kg	.36	U	U
2,6-Dinitrotoluene	mg/kg	.36	U	U
2-Chloronaphthalene	mg/kg	.36	U	U
2-Chlorophenol	mg/kg	.36	U	U
2-Methylnaphthalene	mg/kg	.36	U	U
2-Methylphenol	mg/kg	.36	U	U
2-Nitroaniline	mg/kg	1.7	U	U
2-Nitrophenol	mg/kg	.36	U	U
3,3'-Dichlorobenzidine	mg/kg	1.7	U	U
3-Nitroaniline	mg/kg	1.7	U	U
4,6-Dinitro-2-methylphenol	mg/kg	1.7	U	U
4-Bromophenyl phenyl ether	mg/kg	.36	U	U
4-Chloro-3-methylphenol	mg/kg	.36	U	U
4-Chloroaniline	mg/kg	.36	U	U
4-Chlorophenyl phenyl ether	mg/kg	.36	U	U
4-Methylphenol	mg/kg	.36	U	U
4-Nitroaniline	mg/kg	1.7	U	U
4-Nitrophenol	mg/kg	1.7	U	UJ
Acenaphthene	mg/kg	.36	U	U
Acenaphthylene	mg/kg	.36	U	U
Anthracene	mg/kg	.36	U	U
Benzo(a)anthracene	mg/kg	.36	U	U
Benzo(a)pyrene	mg/kg	.36	U	U
Benzo(b)fluoranthene	mg/kg	.36	U	U
Benzo(ghi)perylene	mg/kg	.36	U	U
Benzo(k)fluoranthene	mg/kg	.36	U	U

	Location Code:	FTA-195-GP01			FTA-195-GP01			FTA-195-GP02			FTA-195-GP03		
	Associated Site:	FTA-195			FTA-195			FTA-195			FTA-195		
	Sample No:	DT0001			DT0003			DT0005			DT0007		
	Sample Date:	04-NOV-98			04-NOV-98			29-OCT-98			29-OCT-98		
User Test Group	*Sample Depth:*	0 - 1			0 - 1			0 - 1			0 - 1		
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES													
SW8270_S													
Butyl benzyl phthalate	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Carbazole	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Chrysene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Di-n-butyl phthalate	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Di-n-octyl phthalate	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Dibenz(a,h)anthracene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Dibenzofuran	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Diethyl phthalate	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Dimethyl phthalate	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Fluoranthene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Fluorene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Hexachlorobenzene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Hexachlorobutadiene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Hexachlorocyclopentadiene	mg/kg	1.8	U	U	1.8	U	U	1.7	U	U	1.8	U	U
Hexachloroethane	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Indeno(1,2,3-cd)pyrene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Isophorone	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Naphthalene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Nitrobenzene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Pentachlorophenol	mg/kg	1.8	U	U	1.8	U	U	1.7	U	U	1.8	U	U
Phenanthrene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Phenol	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
Pyrene	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
bis(2-Chloroethoxy)methane	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U
bis(2-Chloroethyl)ether	mg/kg	.1	J	J	.37	U	U	.35	U	U	.37	U	U
bis(2-Chloroisopropyl)ether	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	UJ
bis(2-Ethylhexyl)phthalate	mg/kg	.073	J	J	.18	J	J	.083	J	J	.37	U	U
n-Nitroso-di-n-propylamine	mg/kg	.37	U	U	.37	U	UJ	.35	U	UJ	.37	U	UJ
n-Nitrosodiphenylamine	mg/kg	.37	U	U	.37	U	U	.35	U	U	.37	U	U

Location Code:	FTA-195-GP04			
Associated Site:	FTA-195			
Sample No:	DT0009			
Sample Date:	29-OCT-98			
Sample Depth:	0 - 1			
User Test Group / Lab Method / Parameter	*Units*	*Result*	*Qual*	*VQual*
SEMIVOLATILES				
SW8270_S				
Butyl benzyl phthalate	mg/kg	.36	U	U
Carbazole	mg/kg	.36	U	U
Chrysene	mg/kg	.36	U	U
Di-n-butyl phthalate	mg/kg	.36	U	U
Di-n-octyl phthalate	mg/kg	.36	U	U
Dibenz(a,h)anthracene	mg/kg	.36	U	U
Dibenzofuran	mg/kg	.36	U	U
Diethyl phthalate	mg/kg	.36	U	U
Dimethyl phthalate	mg/kg	.36	U	U
Fluoranthene	mg/kg	.36	U	U
Fluorene	mg/kg	.36	U	U
Hexachlorobenzene	mg/kg	.36	U	U
Hexachlorobutadiene	mg/kg	.36	U	U
Hexachlorocyclopentadiene	mg/kg	1.7	U	U
Hexachloroethane	mg/kg	.36	U	U
Indeno(1,2,3-cd)pyrene	mg/kg	.36	U	U
Isophorone	mg/kg	.36	U	U
Naphthalene	mg/kg	.36	U	U
Nitrobenzene	mg/kg	.36	U	U
Pentachlorophenol	mg/kg	1.7	U	U
Phenanthrene	mg/kg	.36	U	U
Phenol	mg/kg	.36	U	U
Pyrene	mg/kg	.36	U	U
bis(2-Chloroethoxy)methane	mg/kg	.36	U	U
bis(2-Chloroethyl)ether	mg/kg	.36	U	U
bis(2-Chloroisopropyl)ether	mg/kg	.36	U	UJ
bis(2-Ethylhexyl)phthalate	mg/kg	.36	U	U
n-Nitroso-di-n-propylamine	mg/kg	.36	U	UJ
n-Nitrosodiphenylamine	mg/kg	.36	U	U

	Location Code:	FTA-195-GP01			FTA-195-GP01			FTA-195-GP02			FTA-195-GP03		
	Associated Site:	FTA-195			FTA-195			FTA-195			FTA-195		
	Sample No:	DT0001			DT0003			DT0005			DT0007		
	Sample Date:	04-NOV-98			04-NOV-98			29-OCT-98			29-OCT-98		
User Test Group	*Sample Depth:*	0 - 1			0 - 1			0 - 1			0 - 1		
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES													
SW8260_S													
1,1,1,2-Tetrachloroethane	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
1,1,1-Trichloroethane	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
1,1,2,2-Tetrachloroethane	mg/kg	.0056	U	UJ	.0055	U	U	.0053	U	UJ	.0057	U	U
1,1,2-Trichloroethane	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
1,1-Dichloroethane	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
1,1-Dichloroethene	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
1,1-Dichloropropene	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
1,2,3-Trichlorobenzene	mg/kg	.0056	U	UJ	.0055	U	UJ	.0053	U	UJ	.0057	U	UJ
1,2,3-Trichloropropane	mg/kg	.0056	U	UJ	.0055	U	U	.0053	U	UJ	.0057	U	U
1,2,4-Trichlorobenzene	mg/kg	.0056	U	UJ	.0055	U	UJ	.0053	U	UJ	.0057	U	U
1,2,4-Trimethylbenzene	mg/kg	.0056	U	UJ	.0055	U	U	.0053	U	UJ	.0057	U	U
1,2-Dibromo-3-Chloropropane	mg/kg	.011	U	UJ	.011	U	U	.011	U	UJ	.011	U	U
1,2-Dibromoethane	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
1,2-Dichlorobenzene	mg/kg	.0056	U	UJ	.0055	U	U	.0053	U	UJ	.0057	U	U
1,2-Dichloroethane	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
1,2-Dichloropropane	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
1,2-Dimethylbenzene	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
1,3,5-Trimethylbenzene	mg/kg	.0056	U	UJ	.0055	U	U	.0053	U	UJ	.0057	U	U
1,3-Dichlorobenzene	mg/kg	.0056	U	UJ	.0055	U	U	.0053	U	UJ	.0057	U	U
1,3-Dichloropropane	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
1,4-Dichlorobenzene	mg/kg	.0056	U	UJ	.0055	U	U	.0053	U	UJ	.0057	U	U
2-Butanone	mg/kg	.008	J	B	.012	J	B	.005	J	J	.0057	J	J
2-Hexanone	mg/kg	.022	U	U	.022	U	U	.021	U	UJ	.023	U	UJ
4-Methyl-2-pentanone	mg/kg	.022	U	U	.022	U	U	.021	U	UJ	.023	U	UJ
Acetone	mg/kg	.26		J	.27		J	.092	B	J	1.6	D	J
Benzene	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
Bromobenzene	mg/kg	.0056	U	UJ	.0055	U	U	.0053	U	UJ	.0057	U	U
Bromochloromethane	mg/kg	.0056	U	R	.0055	U	R	.0053	U	U	.0057	U	U
Bromodichloromethane	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
Bromoform	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
Bromomethane	mg/kg	.0046	J B	B	.0045	J B	B	.011	U	R	.0023	J	J

	Location Code:	FTA-195-GP04		
	Associated Site:	FTA-195		
	Sample No:	DT0009		
	Sample Date:	29-OCT-98		
User Test Group	*Sample Depth:*	0 - 1		
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*
VOLATILES				
SW8260_S				
1,1,1,2-Tetrachloroethane	mg/kg	.0055	U	U
1,1,1-Trichloroethane	mg/kg	.0055	U	U
1,1,2,2-Tetrachloroethane	mg/kg	.0055	U	UJ
1,1,2-Trichloroethane	mg/kg	.0055	U	U
1,1-Dichloroethane	mg/kg	.0055	U	U
1,1-Dichloroethene	mg/kg	.0055	U	U
1,1-Dichloropropene	mg/kg	.0055	U	U
1,2,3-Trichlorobenzene	mg/kg	.0055	U	UJ
1,2,3-Trichloropropane	mg/kg	.0055	U	UJ
1,2,4-Trichlorobenzene	mg/kg	.0055	U	UJ
1,2,4-Trimethylbenzene	mg/kg	.0055	U	UJ
1,2-Dibromo-3-Chloropropane	mg/kg	.011	U	UJ
1,2-Dibromoethane	mg/kg	.0055	U	U
1,2-Dichlorobenzene	mg/kg	.0055	U	UJ
1,2-Dichloroethane	mg/kg	.0055	U	U
1,2-Dichloropropane	mg/kg	.0055	U	U
1,2-Dimethylbenzene	mg/kg	.0055	U	U
1,3,5-Trimethylbenzene	mg/kg	.0055	U	UJ
1,3-Dichlorobenzene	mg/kg	.0055	U	UJ
1,3-Dichloropropane	mg/kg	.0055	U	U
1,4-Dichlorobenzene	mg/kg	.0055	U	UJ
2-Butanone	mg/kg	.0028	J	J
2-Hexanone	mg/kg	.022	U	UJ
4-Methyl-2-pentanone	mg/kg	.022	U	UJ
Acetone	mg/kg	.16	B	J
Benzene	mg/kg	.0055	U	U
Bromobenzene	mg/kg	.0055	U	UJ
Bromochloromethane	mg/kg	.0055	U	U
Bromodichloromethane	mg/kg	.0055	U	U
Bromoform	mg/kg	.0055	U	U
Bromomethane	mg/kg	.011	U	R

Summary of Valid urface Soil Data
Former Gas Mask Test Chambers (Parcel 195, 196, 198)
Fort McClellan, Alabama

Report Date: 06/26/00

	Location Code:	FTA-195-GP01			FTA-195-GP01			FTA-195-GP02			FTA-195-GP03		
	Associated Site:	FTA-195			FTA-195			FTA-195			FTA-195		
	Sample No:	DT0001			DT0003			DT0005			DT0007		
	Sample Date:	04-NOV-98			04-NOV-98			29-OCT-98			29-OCT-98		
User Test Group	Sample Depth:	0 - 1			0 - 1			0 - 1			0 - 1		
Lab Method / Parameter	Units	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual
VOLATILES													
SW8260_S													
Carbon disulfide	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
Carbon tetrachloride	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
Chlorobenzene	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
Chloroethane	mg/kg	.011	U	U	.011	U	U	.011	U	U	.011	U	U
Chloroform	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
Chloromethane	mg/kg	.011	U	U	.011	U	U	.011	U	U	.011	U	U
Cumene	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
Dibromochloromethane	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
Dibromomethane	mg/kg	.0056	U	R	.0055	U	R	.0053	U	U	.0057	U	U
Dichlorodifluoromethane	mg/kg	.011	U	U	.011	U	U	.011	U	U	.011	U	U
Ethylbenzene	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
Hexachlorobutadiene	mg/kg	.0056	U	UJ	.0055	U	U	.0053	U	UJ	.0057	U	U
Methylene chloride	mg/kg	.0045	J B	B	.0047	J B	B	.0033	J B	B	.0038	J B	B
Naphthalene	mg/kg	.0056	U	UJ	.0055	U	UJ	.0053	U	UJ	.0057	U	UJ
Styrene	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
Tetrachloroethene	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
Toluene	mg/kg	.012		J	.0055	U	U	.0037	J	J	.036		
Trichloroethene	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
Trichlorofluoromethane	mg/kg	.011	U	U	.011	U	U	.011	U	U	.011	U	U
Vinyl chloride	mg/kg	.011	U	U	.011	U	U	.011	U	U	.011	U	U
cis-1,2-Dichloroethene	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
cis-1,3-Dichloropropene	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
m,p-Xylenes	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057		
n-Butylbenzene	mg/kg	.0056	U	UJ	.0055	U	U	.0053	U	UJ	.0057	U	U
n-Propylbenzene	mg/kg	.0056	U	UJ	.0055	U	U	.0053	U	UJ	.0057	U	U
o-Chlorotoluene	mg/kg	.0056	U	UJ	.0055	U	U	.0053	U	UJ	.0057	U	U
p-Chlorotoluene	mg/kg	.0056	U	UJ	.0055	U	U	.0053	U	UJ	.0057	U	U
p-Cymene	mg/kg	.011		J	.0055	U	U	.0064		J	.058		
sec-Butylbenzene	mg/kg	.0056	U	UJ	.0055	U	U	.0053	U	UJ	.0057	U	U
sec-Dichloropropane	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
tert-Butylbenzene	mg/kg	.0056	U	UJ	.0055	U	U	.0053	U	UJ	.0057	U	U

Location Code:	FTA-195-GP04			
Associated Site:	FTA-195			
Sample No:	DT0009			
Sample Date:	29-OCT-98			
Sample Depth:	0 - 1			
User Test Group / Lab Method / Parameter	*Units*	*Result*	*Qual*	*VQual*
VOLATILES				
SW8260_S				
Carbon disulfide	mg/kg	.0055	U	U
Carbon tetrachloride	mg/kg	.0055	U	U
Chlorobenzene	mg/kg	.0055	U	U
Chloroethane	mg/kg	.011	U	U
Chloroform	mg/kg	.0055	U	U
Chloromethane	mg/kg	.011	U	U
Cumene	mg/kg	.0055	U	U
Dibromochloromethane	mg/kg	.0055	U	U
Dibromomethane	mg/kg	.0055	U	U
Dichlorodifluoromethane	mg/kg	.011	U	U
Ethylbenzene	mg/kg	.0055	U	U
Hexachlorobutadiene	mg/kg	.0055	U	UJ
Methylene chloride	mg/kg	.0036	J B	B
Naphthalene	mg/kg	.0055	U	UJ
Styrene	mg/kg	.0055	U	U
Tetrachloroethene	mg/kg	.0055	U	U
Toluene	mg/kg	.0055	U	U
Trichloroethene	mg/kg	.0055	U	U
Trichlorofluoromethane	mg/kg	.011	U	U
Vinyl chloride	mg/kg	.011	U	U
cis-1,2-Dichloroethene	mg/kg	.0055	U	U
cis-1,3-Dichloropropene	mg/kg	.0055	U	U
m,p-Xylenes	mg/kg	.0055	U	U
n-Butylbenzene	mg/kg	.0055	U	UJ
n-Propylbenzene	mg/kg	.0055	U	UJ
o-Chlorotoluene	mg/kg	.0055	U	UJ
p-Chlorotoluene	mg/kg	.0055	U	UJ
p-Cymene	mg/kg	.0055	U	UJ
sec-Butylbenzene	mg/kg	.0055	U	UJ
sec-Dichloropropane	mg/kg	.0055	U	U
tert-Butylbenzene	mg/kg	.0055	U	UJ

	Location Code:	FTA-195-GP01			FTA-195-GP01			FTA-195-GP02			FTA-195-GP03		
	Associated Site:	FTA-195			FTA-195			FTA-195			FTA-195		
	Sample No:	DT0001			DT0003			DT0005			DT0007		
	Sample Date:	04-NOV-98			04-NOV-98			29-OCT-98			29-OCT-98		
User Test Group	*Sample Depth:*	0 - 1			0 - 1			0 - 1			0 - 1		
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES													
SW8260_S													
trans-1,2-Dichloroethene	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U
trans-1,3-Dichloropropene	mg/kg	.0056	U	U	.0055	U	U	.0053	U	U	.0057	U	U

Location Code:	FTA-195-GP04			
Associated Site:	FTA-195			
Sample No:	DT0009			
Sample Date:	29-OCT-98			
Sample Depth:	0 - 1			
User Test Group / Lab Method / Parameter	*Units*	*Result*	*Qual*	*VQual*
VOLATILES				
SW8260_S				
trans-1,2-Dichloroethene	mg/kg	.0055	U	U
trans-1,3-Dichloropropene	mg/kg	.0055	U	U

Summary of Validated Subsurface Soil Data
Former Gas Mask Test Chambers (Parcel 195, 196, 198)
Fort McClellan, Alabama

Report Date: 06/26/00

	Location Code:	FTA-195-GP01			FTA-195-GP02			FTA-195-GP03			FTA-195-GP04		
	Associated Site:	FTA-195			FTA-195			FTA-195			FTA-195		
	Sample No:	DT0002			DT0006			DT0008			DT0010		
	Sample Date:	04-NOV-98			29-OCT-98			29-OCT-98			29-OCT-98		
User Test Group	*Sample Depth:*	4 - 8			2 - 4			2 - 3			3 - 5		
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
METALS													
SW6010_S													
Aluminum	mg/kg	12600			7100			13300			10700		
Antimony	mg/kg	6.9	U	U	6.6	U	U	7.0	U	U	6.9	U	U
Arsenic	mg/kg	7.9		J	6.0		J	8.1		J	5.4		J
Barium	mg/kg	30.8			21.9	U	U	43.0			23.1	U	U
Beryllium	mg/kg	0.57	U	U	0.55	U	U	0.58	U	U	0.58	U	U
Cadmium	mg/kg	0.57	U	U	0.55	U	U	0.58	U	U	0.58	U	U
Calcium	mg/kg	571	U	R	1400		J	580	U	R	577	U	R
Chromium	mg/kg	51.9		J	30.5		J	48.3		J	23.2		J
Cobalt	mg/kg	7.5		J	5.5	U	U	6.0		J	5.8	U	UJ
Copper	mg/kg	7.8			7.3			11.6			9.1		
Iron	mg/kg	31100			27200			35700			28500		
Lead	mg/kg	14.8			9.5			12.3			7.3		
Magnesium	mg/kg	571	U	UJ	823		J	580	U	UJ	577	U	UJ
Manganese	mg/kg	537			104			139			23.0		
Nickel	mg/kg	7.0			4.4	U	U	6.4			4.6	U	U
Potassium	mg/kg	571	U	U	547	U	U	580	U	U	577	U	U
Selenium	mg/kg	0.57	U	U	0.55	U	U	0.58	U	U	0.66		
Silver	mg/kg	1.1	U	U	1.1	U	U	1.2	U	U	1.2	U	U
Sodium	mg/kg	571	U	U	547	U	U	580	U	U	577	U	U
Thallium	mg/kg	1.1	U	U	1.1	U	U	1.2	U	U	1.2	U	U
Vanadium	mg/kg	34.9			24.7			38.2			18.9		
Zinc	mg/kg	17.3			12.4		B	18.4		B	11.0		B
SW7471_S													
Mercury	mg/kg	0.058			0.063			0.15			0.041		
SEMIVOLATILES													
SW8270_S													
1,2,4-Trichlorobenzene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
1,2-Dichlorobenzene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
1,3-Dichlorobenzene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Dichlorobenzene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U

	Location Code:	FTA-195-GP01			FTA-195-GP02			FTA-195-GP03			FTA-195-GP04		
	Associated Site:	FTA-195			FTA-195			FTA-195			FTA-195		
	Sample No:	DT0002			DT0006			DT0008			DT0010		
	Sample Date:	04-NOV-98			29-OCT-98			29-OCT-98			29-OCT-98		
User Test Group	Sample Depth:	4 - 8			2 - 4			2 - 3			3 - 5		
Lab Method													
Parameter	Units	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual
SEMIVOLATILES													
SW8270_S													
2,4,5-Trichlorophenol	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
2,4,6-Trichlorophenol	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
2,4-Dichlorophenol	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
2,4-Dimethylphenol	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
2,4-Dinitrophenol	mg/kg	1.8	U	U	1.8	U	U	1.9	U	U	1.8	U	U
2,4-Dinitrotoluene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
2,6-Dinitrotoluene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
2-Chloronaphthalene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
2-Chlorophenol	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
2-Methylnaphthalene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
2-Methylphenol	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
2-Nitroaniline	mg/kg	1.8	U	U	1.8	U	U	1.9	U	U	1.8	U	U
2-Nitrophenol	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
3,3'-Dichlorobenzidine	mg/kg	1.8	U	U	1.8	U	U	1.9	U	U	1.8	U	U
3-Nitroaniline	mg/kg	1.8	U	U	1.8	U	U	1.9	U	U	1.8	U	U
4,6-Dinitro-2-methylphenol	mg/kg	1.8	U	U	1.8	U	U	1.9	U	U	1.8	U	U
4-Bromophenyl phenyl ether	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
4-Chloro-3-methylphenol	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
4-Chloroaniline	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
4-Chlorophenyl phenyl ether	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
4-Methylphenol	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
4-Nitroaniline	mg/kg	1.8	U	U	1.8	U	U	1.9	U	U	1.8	U	U
4-Nitrophenol	mg/kg	1.8	U	U	1.8	U	UJ	1.9	U	UJ	1.8	U	UJ
Acenaphthene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Acenaphthylene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Anthracene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Benzo(a)anthracene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Benzo(a)pyrene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Benzo(b)fluoranthene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Benzo(ghi)perylene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Benzo(k)fluoranthene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U

Summary of Validated Subsurface Soil Data
Former Gas Mask Test Chambers (Parcel 195, 196, 198)
Fort McClellan, Alabama

Report Date: 06/26/00

	Location Code:	FTA-195-GP01			FTA-195-GP02			FTA-195-GP03			FTA-195-GP04		
	Associated Site:	FTA-195			FTA-195			FTA-195			FTA-195		
	Sample No:	DT0002			DT0006			DT0008			DT0010		
	Sample Date:	04-NOV-98			29-OCT-98			29-OCT-98			29-OCT-98		
User Test Group	*Sample Depth:*	4 - 8			2 - 4			2 - 3			3 - 5		
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES													
SW8270_S													
Butyl benzyl phthalate	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Carbazole	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Chrysene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Di-n-butyl phthalate	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Di-n-octyl phthalate	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Dibenz(a,h)anthracene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Dibenzofuran	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Diethyl phthalate	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Dimethyl phthalate	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Fluoranthene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Fluorene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Hexachlorobenzene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Hexachlorobutadiene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Hexachlorocyclopentadiene	mg/kg	1.8	U	U	1.8	U	U	1.9	U	U	1.8	U	U
Hexachloroethane	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Indeno(1,2,3-cd)pyrene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Isophorone	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Naphthalene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Nitrobenzene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Pentachlorophenol	mg/kg	1.8	U	U	1.8	U	U	1.9	U	U	1.8	U	U
Phenanthrene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Phenol	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
Pyrene	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
bis(2-Chloroethoxy)methane	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U
bis(2-Chloroethyl)ether	mg/kg	.11	J	J	.36	U	U	.38	U	U	.38	U	U
bis(2-Chloroisopropyl)ether	mg/kg	.38	U	U	.36	U	UJ	.38	U	UJ	.38	U	UJ
bis(2-Ethylhexyl)phthalate	mg/kg	.077	J	J	.36	U	U	.38	U	U	.38	U	U
n-Nitroso-di-n-propylamine	mg/kg	.38	U	UJ	.36	U	UJ	.38	U	UJ	.38	U	UJ
n-Nitrosodiphenylamine	mg/kg	.38	U	U	.36	U	U	.38	U	U	.38	U	U

Summary of Validated Subsurface Soil Data
Former Gas Mask Test Chambers (Parcel 195, 196, 198)
Fort McClellan, Alabama

Report Date: 06/26/00

	Location Code:	FTA-195-GP01			FTA-195-GP02			FTA-195-GP03			FTA-195-GP04		
	Associated Site:	FTA-195			FTA-195			FTA-195			FTA-195		
	Sample No:	DT0002			DT0006			DT0008			DT0010		
	Sample Date:	04-NOV-98			29-OCT-98			29-OCT-98			29-OCT-98		
User Test Group / Lab Method	Sample Depth:	4 - 8			2 - 4			2 - 3			3 - 5		
Parameter	Units	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual
VOLATILES													
SW8260_S													
1,1,1,2-Tetrachloroethane	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,1,1-Trichloroethane	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,1,2,2-Tetrachloroethane	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,1,2-Trichloroethane	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,1-Dichloroethane	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,1-Dichloroethene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,1-Dichloropropene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,2,3-Trichlorobenzene	mg/kg	.0057	U	UJ	.0055	U	UJ	.0058	U	UJ	.0058	U	UJ
1,2,3-Trichloropropane	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,2,4-Trichlorobenzene	mg/kg	.0057	U	UJ	.0055	U	U	.0058	U	U	.0058	U	U
1,2,4-Trimethylbenzene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,2-Dibromo-3-Chloropropane	mg/kg	.011	U	U	.011	U	U	.012	U	U	.012	U	U
1,2-Dibromoethane	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,2-Dichlorobenzene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,2-Dichloroethane	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,2-Dichloropropane	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,2-Dimethylbenzene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,3,5-Trimethylbenzene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,3-Dichlorobenzene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,3-Dichloropropane	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
1,4-Dichlorobenzene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
2-Butanone	mg/kg	.023	U	R	.022	U	R	.023	U	R	.023	U	R
2-Hexanone	mg/kg	.023	U	U	.022	U	UJ	.023	U	UJ	.023	U	UJ
4-Methyl-2-pentanone	mg/kg	.023	U	U	.022	U	UJ	.023	U	UJ	.023	U	UJ
Acetone	mg/kg	.024		B	.11	B	J	.26	B	J	.11	B	J
Benzene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Bromobenzene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Bromochloromethane	mg/kg	.0057	U	R	.0055	U	U	.0058	U	U	.0058	U	U
Bromodichloromethane	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Bromoform	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Bromomethane	mg/kg	.011	U	R	.011	U	R	.012	U	R	.012	U	R

Summary of Validated Subsurface Soil Data
Former Gas Mask Test Chambers (Parcel 195, 196, 198)
Fort McClellan, Alabama

Report Date: 06/26/00

	Location Code:	FTA-195-GP01			FTA-195-GP02			FTA-195-GP03			FTA-195-GP04		
	Associated Site:	FTA-195			FTA-195			FTA-195			FTA-195		
	Sample No:	DT0002			DT0006			DT0008			DT0010		
	Sample Date:	04-NOV-98			29-OCT-98			29-OCT-98			29-OCT-98		
User Test Group	Sample Depth:	4 - 8			2 - 4			2 - 3			3 - 5		
Lab Method													
Parameter	Units	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual
VOLATILES													
SW8260_S													
Carbon disulfide	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Carbon tetrachloride	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Chlorobenzene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Chloroethane	mg/kg	.011	U	U	.011	U	U	.012	U	U	.012	U	U
Chloroform	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Chloromethane	mg/kg	.011	U	U	.011	U	U	.012	U	U	.012	U	U
Cumene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Dibromochloromethane	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Dibromomethane	mg/kg	.0057	U	R	.0055	U	U	.0058	U	U	.0058	U	U
Dichlorodifluoromethane	mg/kg	.011	U	U	.011	U	U	.012	U	U	.012	U	U
Ethylbenzene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Hexachlorobutadiene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Methylene chloride	mg/kg	.0054	J B	B	.0043	J B	B	.0094	B	B	.0032	J B	B
Naphthalene	mg/kg	.0057	U	UJ	.0055	U	UJ	.0058	U	UJ	.0058	U	UJ
Styrene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Tetrachloroethene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Toluene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Trichloroethene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
Trichlorofluoromethane	mg/kg	.011	U	U	.011	U	U	.0047	J	J	.012	U	U
Vinyl chloride	mg/kg	.011	U	U	.011	U	U	.012	U	U	.012	U	U
cis-1,2-Dichloroethene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
cis-1,3-Dichloropropene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
m,p-Xylenes	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
n-Butylbenzene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
n-Propylbenzene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
o-Chlorotoluene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
p-Chlorotoluene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
p-Cymene	mg/kg	.0057	U	U	.0055	U	U	.0047	J	J	.0058	U	U
sec-Butylbenzene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
sec-Dichloropropane	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
tert-Butylbenzene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U

Summary of Validat osurface Soil Data
Former Gas Mask Test Chambers (Parcel 195, 196, 198)
Fort McClellan, Alabama

Report Date: 06/26/00

	Location Code:	FTA-195-GP01			FTA-195-GP02			FTA-195-GP03			FTA-195-GP04		
	Associated Site:	FTA-195			FTA-195			FTA-195			FTA-195		
	Sample No:	DT0002			DT0006			DT0008			DT0010		
	Sample Date:	04-NOV-98			29-OCT-98			29-OCT-98			29-OCT-98		
User Test Group	*Sample Depth:*	4 - 8			2 - 4			2 - 3			3 - 5		
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES													
SW8260_S													
trans-1,2-Dichloroethene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U
trans-1,3-Dichloropropene	mg/kg	.0057	U	U	.0055	U	U	.0058	U	U	.0058	U	U

APPENDIX E

DATA VALIDATION SUMMARY REPORT

Data Validation Summary Report for the Site Investigation Performed at the Former Gas Mask Chamber (Parcel FTA-195) Fort McClellan, Calhoun County, Alabama

1.0 Introduction

Level III data validation was performed on 100% of the environmental samples collected at Parcel FTA-195. The analytical data consisted of one sample delivery group (SDG), PK419501, which was analyzed by Quanterra Incorporated. In addition, an evaluation of the field split data, which was analyzed by the USACE-SAD laboratory is included in this report. The chemical parameters for which the samples were analyzed, are identified below:

Parameter (Method)
TCL Volatile Organics by GC/MS SW-846 8260B
TCL Semivolatiles by GC SW-846 8270C
Metals by SW-846 6010B and 7471A/7470A

2.0 Procedures

The sample data were validated following the logic identified in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines For Inorganic Data Review (February 1994)* and *USEPA Contract Laboratory Program National Functional Guidelines For Organic Review (February 1994)* for all areas except Blanks. *Region III Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses (April 1993)* and *Region III National Functional Guidelines for Organic Data Review (June 1992)* were applied to the areas associated with blank contamination. Specific quality control (QC) criteria, as identified in the Quality Assurance Plan (QAP), analytical methods, and laboratory Standard Operating Procedures (SOP's) were applied to all sample results. As the result of the use of Update III SW846 test methods for the analytical data and the application of the CLP guidelines during the validation process, there were instances where specific QC requirements for all target compounds were not defined. This primarily occurred in the organic, Gas Chromatograph (GC) and Gas Chromatograph/Mass Spectra (GC/MS) calibration areas and is due to the fact that the analytical methods are "performance-based," and allows the use of average calibration responses, in lieu of, individual responses, which are defined by CLP protocol. In light of applying CLP guidelines to SW846 methods and evaluating the usability of the data during the validation process, specific QC criteria were determined to address all target compounds and are identified in this report for each parameter, as well as, in the validation checklists, which

function as worksheets. All completed validation checklists are on file in the Knoxville office. For those analytical methods not addressed by the CLP and Region III guidelines, the validation was based on the method requirements (i. e. SW846, CFR, SOP's) and technical judgement following the logic of the CLP validation guidelines.

3.0 Summary of Data Validation Findings

The overall quality of the data was determined to be acceptable. The only rejected data ('R' qualified) was due to poor performing volatile compounds (ketones, some halogenated hydrocarbons, e.g.), which exhibited poor calibration responses in the associated calibration data, inorganic compounds, which had extremely low MS/MSD recoveries, and samples that were reanalyzed and have more than one result reported. The R qualifier was assigned to the samples with more than one set of results to indicate that a given result should not be used to characterize a particular constituent or an analysis for a given sample.

Individual validation reports have been prepared for each parameter and the overall results of the validation findings are summarized in this report. The validation qualifier data entry verification report (Attachment A) is also provided. This is a complete listing of all of the analytical results and the validation qualifiers assigned for FTA-195. It also identifies the use column, which indicates which result to use in the event of a reanalysis. A listing of the validation qualifiers and the reason codes, along with their definitions is also found in Attachment A. The following section highlights the key findings of the data validation for each analysis.

4.0 Analysis-Specific Data Validation Summaries

4.1 Volatile Organics by GC/MS SW846-8260b

Overall, the data are of good quality and are usable as reported by the laboratory with the exceptions noted below. Data were reviewed for the following:

<u>Holding Times</u>

Technical holding time criteria were met for all samples.

<u>Initial and Continuing Calibration</u>

All initial and continuing calibrations associated with the project samples met QC criteria, with the exceptions of the following:

- The following demonstrated RRFs below 0.1 in the ICAL and/or CCAL: Non-detect results were rejected (qualified 'R'); Positive results were estimated (qualified 'J');

Unless 'B' qualified due to blank contamination

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK419501	DT0001, DT0002, DT0003	Bromochloromethane, Dibromomethane	R
PK419501	DT0001, DT0002, DT0003, DT0005, DT0006, DT0007, DT0008, DT0009, DT0010	Bromomethane, Acetone, 2-Butanone	R/J/B*

* 'B' qualifiers assigned to designate blank contamination, which are identification qualifiers, take precedence over estimating qualifiers, assigned due to quantitation.

- The following exhibited individual ICAL %RSD>30 and/or CCAL %D>20: Non-detect results were estimated (qualified 'UJ'); Unless rejected (qualified 'R') due to ICAL/CCAL minimum RRF criteria not met; Positive results were estimated (qualified 'J'); Unless 'B' qualified due to blank contamination

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK419501	DT0002, DT0005, DT0006, DT0007, DT0008, DT0009	Bromomethane	R**
PK419501	DT0010	Bromomethane, 2-Butanone	R**
PK419501	DT0001, DT0002, DT0003	Methylene Chloride, 1,2,4-Trichlorobenzene 1,2,3-Trichlorobenzene, Napthalene	UJ/B*
PK419501	DT0005, DT0006, DT0007, DT0008, DT0009, DT0010	4-Methyl-2-Pentanone, 2-Hexanone 1,2,3-Trichlorobenzene, Napthalene	UJ

* 'B' qualifiers assigned to designate blank contamination, which are identification qualifiers, take precedence over estimating qualifiers, assigned due to quantitation.

** 'R' qualifiers take precedence over estimating qualifiers.

Blanks

The 5X/10X rule for contaminants found in the associated equipment rinses, trip blanks, and method blanks was applied to all sample results. All were found to be acceptable with the exception of the following:

Note: 'B' Qualifiers were applied to all of the following sample results.

SDG	Samples Affected	Analyte/Analytes	Associated Blank Contamination
PK419501	DT0001, DT0003	Bromomethane, 2-Butanone, Methylene Chloride	ER/method blank
PK419501	DT0002	Acetone, Methylene Chloride	ER/method blank
PK419501	DT0005, DT0006, DT0007, DT0008, DT0009, DT0010	Methylene Chloride	method blank

'B' qualifiers assigned to designate blank contamination, which are identification qualifiers, take precedence over estimating qualifiers, assigned due to quantitation.

Surrogate Recoveries

All surrogate recoveries are within acceptable QC ranges for the surrogates applied with the exception of the following: Positive results were estimated (qualified J); unless B qualified due to blank contamination.

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK419501	DT0001	Bromomethane, 2-Butanone, Methylene Chloride, p-Isopropyltoluene, Toluene, Acetone	J/B*

Matrix Spike / Matrix Spike Duplicate

MS/MSD and Laboratory Control Sample (LCS) was performed for the project samples and all QC criteria were met.

Field Duplicates

Original and field duplicate results were evaluated and no problems were noted.

Internal Standards

All internal standards met criteria with the exception of the following:

- All compounds associated with the internal standards listed in the table below were qualified as indicated.

SDG	Samples Affected	Internal Standard Outside QC Limits	Validation Qualifier
PK419501	DT0001, DT0005, DT0009	1,4-Dichlorobenzene d4	J/UJ

Quanitation

Results quantitated between the MDL and the RL, which the lab qualified as "J", were qualified as estimated 'J' unless blank contamination was present or the results were rejected.

4.2 TCL Semivolatiles by GC/MS SW-846 8270C

Overall, the data are of good quality and are usable as reported by the laboratory with the exceptions noted below. Data were reviewed for the following:

Holding Times

Technical holding time criteria were met.

Initial and Continuing Calibration

All initial and continuing calibrations associated with the project samples met QC criteria with the exceptions of the following:

The following exhibited individual ICAL %RSD>30 and/or CCAL %D>20:

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK419501	DT0002, DT0003, DT0005	N-Nitroso-di-n-propylamine	UJ
PK419501	DT0006, DT0007, DT0008, DT0009, DT0010	N-Nitroso-di-n-propylamine, 4-Nitrophenol, 2,2'-oxybis(1-Chloropropane)	UJ

Blanks

The 5X/10X rule for contaminants found in the associated equipment rinsates and method blanks was applied to all sample results and all were found to be acceptable.

Surrogate Recoveries

All surrogate recoveries met QC criteria.

Matrix Spike / Matrix Spike Duplicate

Batch QC, MS/MSD, and Laboratory Control Sample (LCS) were performed for the project

samples and all QC criteria were met.

Field Duplicates

Original and field duplicate results were evaluated and the following exceeded the 50% RPD criteria:

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK419501	DT0001 (original sample) and DT0003 (FD)	bis(2-ethylhexyl)phthalate	J

Note: High RPD's are most likely due to matrix interferences and sample non-homogeneity

Quanitation

Results quantitated between the MDL and the RL, which the lab qualified as "J", were qualified as estimated 'J' unless blank contamination was present or the results were rejected.

4.3 Metals by SW-846 6010B/7471A/7470A

Overall, the data are of good quality and are usable as reported by the laboratory with the exceptions noted below. Data were reviewed for the following:

Holding Times

Technical holding time criteria were met for all samples.

Initial and Continuing calibrations

All initial and continuing calibrations associated with the project samples met QC criteria with the exceptions noted below. The following demonstrated ICV and/or CCV recoveries outside QC limits:

SDG	Samples Affected	Analyte	Validation Qualifier
PK419501	DT0001, DT0002, DT0003, DT0007, DT0008, DT0009, DT0010	Cobalt	J/UJ

Blanks

The 5X rule for contaminants found in the associated equipment rinse, calibration, and method blanks was applied to all sample results. All were acceptable with the exceptions noted below:

SDG	Samples Affected	Analyte	Associated Blank Contamination
PK419501	DT0006, DT0007, DT0008, DT0009, DT0010	Zinc	ER

Matrix Spike / Matrix Spike Duplicate

Batch QC was performed for the project samples and all QC criteria were met with the following exceptions: It should be noted that calcium exhibited extremely low recoveries and non-detect results were rejected (qualified 'R').

SDG	Samples Affected	Element/Elements	Validation Qualifier
PK419501	DT0001, DT0002, DT0003, DT0005, DT0006, DT0007, DT0008, DT0009, DT0010	Chromium, Magnesium, Calcium	R/J/UJ

Laboratory Control Sample (LCS)

All QC criteria were met for the LCS associated with the project sample analyses.

Interference Check Sample (ICS)

All ICS % recoveries, where applicable, were acceptable.

ICP Serial Dilutions

All QC criteria, where applicable were met with the following exceptions:

SDG	Samples Affected	Analyte	Validation Qualifier
PK419501	DT0001, DT0002, DT0003, DT0005, DT0006, DT0007, DT0008, DT0009, DT0010	Arsenic	J

SDG	Samples Affected	Analyte	Associated Blank Contamination
PK419501	DT0006, DT0007, DT0008, DT0009, DT0010	Zinc	ER

Matrix Spike / Matrix Spike Duplicate

Batch QC was performed for the project samples and all QC criteria were met with the following exceptions: It should be noted that calcium exhibited extremly low recoveries and non-detect results were rejected (qualified 'R').

SDG	Samples Affected	Element/Elements	Validation Qualifier
PK419501	DT0001, DT0002, DT0003, DT0005, DT0006, DT0007, DT0008, DT0009, DT0010	Chromium, Magnesium, Calcium	R/J/UJ

Laboratory Control Sample (LCS)

All QC criteria were met for the LCS associated with the project sample analyses.

Interference Check Sample (ICS)

All ICS % recoveries, where applicable, were acceptable.

ICP Serial Dilutions

All QC criteria, where applicable were met with the following exceptions:

SDG	Samples Affected	Analyte	Validation Qualifier
PK419501	DT0001, DT0002, DT0003, DT0005, DT0006, DT0007, DT0008, DT0009, DT0010	Arsenic	J

Field Duplicates

Original and field duplicate results were evaluated and the following exceeded the 50% RPD criteria applied:

SDG	Samples Affected	Element/Elements	Validation Qualifier
PK419501	DT0001 (original sample) and DT0003 (field duplicate)	Calcium, Magnesium	J

Note: High RPD's are most likely due to matrix interferences and sample non-homogeneity

Sample Quantitation

Results quantitated between the IDL and the RL ("B" flagged by the laboratory) were qualified as estimated (J).

5.0 Quality Assurance Field Split Sample Data Evaluation

Data from the quality assurance split samples supplied to IT by the USACE were reviewed for comparability to the original and field duplicate results. Relative percent differences were calculated and the results are summarized in this section.

- Field split data for SDG PK419501

Note: Field Split Laboratory - Specialized Assays, Inc., Nashville, TN

Original Sample ID	Field Duplicate ID	Field Split ID
DT0001	DT0003	DT0004

Comments:

- Volatiles - Acetone, 2-Butanone, Bromomethane, and Methylene Chloride were detected in original and field duplicate (FD); but not detected in the field split (FS). Trichloroethene was found in the FS, DT0004, but not in DT0001 or DT0003. Toluene and p-Isopropyl toluene were found only in the original sample DT0001. Difference attributed to lack of sample homogeneity, different reporting limits (RL), and/or FS lab does not report results below the RL s. It should also be noted that the FS sample was diluted 5:1 and the original and duplicate samples were not diluted.

- Semivolatiles - Compound bis (2-ethylhexyl)phthalate was detected in original and FD; but not detected in the FS. Bis (2-ethylhexyl)phthlate is a common laboratory contaminant. Bis (2-Chloroethyl)ether was detected between the MDL and the RL for the original sample and not found in either the FD or FS.. Differences attributed to lack of sample homogeneity, different reporting limits (RL), and/or FS lab does not report results below the RL's.

- Metals - The majority of the same elements were detected at comparable concentrations for all samples. Calcium %RPD=134.0% for the field split and original and a RPD=126% for the original and field duplicate. This was also found true for magnesium, RPD= 128% for original and FD; RPD= 126% for original and FS. Both compounds were reported at comparable amounts for the FD and FS samples. Therefore, the high %RPD's are

attributed to lack of sample homogeneity and matrix interferences. Nickel, potassium, and sodium were detected in the FS and not detected in the original and FD samples. Differences attributed to the use of different RL's, lack of sample homogeneity, and/or original and FD lab did not report results below the RL's.

Attachment A:

Data Validation Qualifier Entry Verification Report

Validation Qualifiers

U Not detected. The compound/analyte was analyzed for, but not detected above the associated reporting limit.

J The compound/analyte was positively identified; the reported value is the estimated concentration of the constituent detected in the sample analyzed.

B The concentration reported was detected significantly above the levels reported in the associated equipment rinse samples and/or laboratory method and trip blanks. (5X/10X Rule was applied).

R The reported sample results are rejected due to the following:

1. Severe deficiencies in the supporting quality control data.
2. Anomalies noted in the sampling and/or analysis process which could affect the validity of the reported data.
3. The presence or absence of the constituent cannot be verified based on the data provided.
4. To indicate not to use a particular result in the event of a reanalysis.

UJ The compound/analyte was analyzed for, but not detected above the established reporting limit. However, review and evaluation of supporting QC data and/or sampling and analysis process have indicated that the 'non-detect' maybe inaccurate or imprecise. The non-detect result should be estimated.

Validation Reason Code Definitions

Reason Code	Description
01	Sample received outside of 4+/-2 degrees Celsius
01A	Improper sample preservation
02	Holding Time Exceeded
02A	Extraction
02B	Analysis
03	Instrument Performance - Outside Criteria
03A	BFB
03B	DFTPP
03C	DDT and/or Endrin % breakdown exceeds criteria
03D	retention time windows
03E	Resolution
04	Initial calibration results outside specified criteria
04A	Compound mean RRF QC criteria not met
04B	Individual % RSD criteria not met
04C	Correlation coefficient <0.995
05	Continuing calibration results outside specified criteria
05A	Compound mean RRF QC criteria not met
05B	Compound % D QC criteria not met
06	Result qualified as a result of the 5x/10x blank correction
06A	Method or preparation blank
06B	ICB or CCB
06C	ER
06D	TB
06E	FB
07	Surrogate recoveries outside control limits
07A	Sample
07B	Associated method blank or LCS
08	MS/MSD/Duplicate results outside criteria
08A	MS and/or MSD recovery not within control limits (accuracy)
08B	% RPD outside acceptance criteria (precision)
09	Post digestion spike outside criteria (GFAA)
10	Internal standards outside specified control limits

Validation Reason Code Definitions

Reason Code	Description
10A	Recovery
10B	Retention Time
11	Laboratory control sample recoveries outside specified control limits
11A	Recovery
11B	% RPD (if run in duplicate)
12	Interference check standard
13	Serial dilution
14	Tentatively identified compounds
15	Quantitation
16	Multiple results available; alternate analysis preferred
17	Field duplicate RPD criteria is exceeded
18	Percent difference between original and second column exceeds QC criteria
19	Professional judgement was used to qualify the data
20	Pesticide clean-up checks
21	Target compound identification
22	Radiological calibration
23	Radiological quantitation
24	Reported result and/or lab qualifier revised to reflect validation findings

Validation Qualifi Data Entry Verification

Run Date: January 19, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0001	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CN5C2S	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	6200	mg/kg		Y	Y	P						CN5C2S	16:11
						ANTIMONY	6.7	mg/kg	U	N	Y	U	U					CN5C2S	16:11
						BARIUM	37.7	mg/kg		Y	Y	P						CN5C2S	16:11
						BERYLLIUM	0.56	mg/kg	U	N	Y	U	U					CN5C2S	16:11
						CADMIUM	0.56	mg/kg	U	N	Y	U	U					CN5C2S	16:11
						CALCIUM	7180	mg/kg		Y	Y	P	J	08A	17			CN5C2S	16:11
						CHROMIUM	11.9	mg/kg		Y	Y	P	J	08A				CN5C2S	16:11
						COBALT	5.6	mg/kg	U	N	Y	U	UJ	05B				CN5C2S	16:11
						COPPER	6.8	mg/kg		Y	Y	P						CN5C2S	16:11
						IRON	9480	mg/kg		Y	Y	P						CN5C2S	16:11
						MAGNESIUM	3910	mg/kg		Y	Y	P	J	08A	17			CN5C2S	16:11
						MANGANESE	662	mg/kg		Y	Y	P						CN5C2S	16:11
						NICKEL	4.5	mg/kg	U	N	Y	U	U					CN5C2S	16:11
						POTASSIUM	557	mg/kg	U	N	Y	U	U					CN5C2S	16:11
						SILVER	1.1	mg/kg	U	N	Y	U	U					CN5C2S	16:11
						SODIUM	557	mg/kg	U	N	Y	U	U					CN5C2S	16:11
						VANADIUM	12.0	mg/kg		Y	Y	P						CN5C2S	16:11
						ZINC	41.4	mg/kg		Y	Y	P						CN5C2S	16:11
	SW6010	SW3050	N	1	1	ARSENIC	4.7	mg/kg		Y	Y	P	J	13				CN5C2S	01:08
						LEAD	14.5	mg/kg		Y	Y	P						CN5C2S	01:08
						SELENIUM	0.56	mg/kg	U	N	Y	U	U					CN5C2S	01:08
						THALLIUM	1.1	mg/kg	U	N	Y	U	U					CN5C2S	01:08
	SW7471	TOTAL	N	0	1	MERCURY	0.037	mg/kg	U	N	Y	U	U					CN5C2S	18:08
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						1,1,1-TRICHLOROETHANE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						1,1,2,2-TETRACHLOROETHANE	.0056	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						1,1,2-TRICHLOROETHANE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						1,1-DICHLOROETHANE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						1,1-DICHLOROETHENE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						1,1-DICHLOROPROPENE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						1,2,3-TRICHLOROBENZENE	.0056	mg/kg	U	N	Y	U	UJ	05B	10A			CN5C2S	20:14
						1,2,3-TRICHLOROPROPANE	.0056	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						1,2,4-TRICHLOROBENZENE	.0056	mg/kg	U	N	Y	U	UJ	05B	10A			CN5C2S	20:14
						1,2,4-TRIMETHYLBENZENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						1,2-DIBROMO-3-CHLOROPROPANE	.011	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						1,2-DIBROMOETHANE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						1,2-DICHLOROBENZENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						1,2-DICHLOROETHANE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						1,2-DICHLOROPROPANE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						1,3,5-TRIMETHYLBENZENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						1,3-DICHLOROBENZENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						1,3-DICHLOROPROPANE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14

Validation Qualifier Data Entry Verification

Run Date: January 19, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0001	SW8260	SW5030	N	0	1	1,4-DICHLOROBENZENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						2,2-DICHLOROPROPANE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						2-BUTANONE	.008	mg/kg	J	Y	Y	F	B	04A	05A	06C	07A	CN5C2S	20:14
						2-CHLOROTOLUENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						2-HEXANONE	.022	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						4-CHLOROTOLUENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						4-METHYL-2-PENTANONE	.022	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						ACETONE	.26	mg/kg		Y	Y	P	J	04A	05A	07A		CN5C2S	20:14
						BENZENE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						BROMOBENZENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						BROMOCHLOROMETHANE	.0056	mg/kg	U	N	Y	U	R	05A				CN5C2S	20:14
						BROMODICHLOROMETHANE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						BROMOFORM	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						BROMOMETHANE	.0046	mg/kg	J B	Y	Y	F	B	04	05A	06A	07A	CN5C2S	20:14
						CARBON DISULFIDE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						CARBON TETRACHLORIDE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						CHLOROBENZENE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						CHLORODIBROMOMETHANE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						CHLOROETHANE	.011	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						CHLOROFORM	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						CHLOROMETHANE	.011	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						CIS-1,2-DICHLOROETHENE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						CIS-1,3-DICHLOROPROPENE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						DIBROMOMETHANE	.0056	mg/kg	U	N	Y	U	R	05A				CN5C2S	20:14
						DICHLORODIFLUOROMETHANE	.011	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						ETHYLBENZENE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						HEXACHLOROBUTADIENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						ISOPROPYLBENZENE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						M-XYLENE & P-XYLENE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						METHYLENE CHLORIDE	.0045	mg/kg	J B	Y	Y	F	B	04B	06A	07A	15	CN5C2S	20:14
						N-BUTYLBENZENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						N-PROPYLBENZENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						NAPHTHALENE	.0056	mg/kg	U	N	Y	U	UJ	05B	10A			CN5C2S	20:14
						O-XYLENE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						P-ISOPROPYLTOLUENE	.011	mg/kg		Y	Y	P	J	07A	10A			CN5C2S	20:14
						SEC-BUTYLBENZENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						STYRENE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						TERT-BUTYLBENZENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CN5C2S	20:14
						TETRACHLOROETHENE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						TOLUENE	.012	mg/kg		Y	Y	P	J	07A				CN5C2S	20:14
						TRANS-1,2-DICHLOROETHENE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						TRANS-1,3-DICHLOROPROPENE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						TRICHLOROETHENE	.0056	mg/kg	U	N	Y	U	U					CN5C2S	20:14
						TRICHLOROFLUOROMETHANE	.011	mg/kg	U	N	Y	U	U					CN5C[illegible]	20:14

Validation Qualifier Data Entry Verification

Run Date: January 19, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0001	SW8260	SW5030	N	0	1	VINYL CHLORIDE	.011	mg/kg	U	N	Y	U	U					CN5C2S	20:14
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						1,2-DICHLOROBENZENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						1,3-DICHLOROBENZENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						1,4-DICHLOROBENZENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						2,2'-OXYBIS(1-CHLOROPROPANE)	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						2,4,5-TRICHLOROPHENOL	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						2,4,6-TRICHLOROPHENOL	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						2,4-DICHLOROPHENOL	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						2,4-DIMETHYLPHENOL	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						2,4-DINITROPHENOL	1.8	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						2,4-DINITROTOLUENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						2,6-DINITROTOLUENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						2-CHLORONAPHTHALENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						2-CHLOROPHENOL	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						2-METHYLNAPHTHALENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						2-METHYLPHENOL	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						2-NITROANILINE	1.8	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						2-NITROPHENOL	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						3,3'-DICHLOROBENZIDINE	1.8	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						3-NITROANILINE	1.8	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						4,6-DINITRO-2-METHYLPHENOL	1.8	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						4-BROMOPHENYL PHENYL ETHER	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						4-CHLORO-3-METHYLPHENOL	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						4-CHLOROANILINE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						4-CHLOROPHENYL PHENYL ETHER	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						4-METHYLPHENOL	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						4-NITROANILINE	1.8	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						4-NITROPHENOL	1.8	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						ACENAPHTHENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						ACENAPHTHYLENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						ANTHRACENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						BENZ(A)ANTHRACENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						BENZO(A)PYRENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						BENZO(B)FLUORANTHENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						BENZO(GHI)PERYLENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						BENZO(K)FLUORANTHENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						BIS(2-CHLOROETHOXY)METHANE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						BIS(2-CHLOROETHYL) ETHER	.1	mg/kg	J	Y	Y	P	J	15				CN5C2S	19:01
						BIS(2-ETHYLHEXYL) PHTHALATE	.073	mg/kg	J	Y	Y	P	J	15	17			CN5C2S	19:01
						BUTYL BENZYL PHTHALATE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						CARBAZOLE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						CHRYSENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01

Validation Qualifier Data Entry Verification

Fort McClellan

Run Date: January 19, 2001

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0001	SW8270	SW3550	N	0	1	DI-N-BUTYL PHTHALATE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						DI-N-OCTYL PHTHALATE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						DIBENZ(A,H)ANTHRACENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						DIBENZOFURAN	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						DIETHYL PHTHALATE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						DIMETHYL PHTHALATE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						FLUORANTHENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						FLUORENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						HEXACHLOROBENZENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						HEXACHLOROBUTADIENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						HEXACHLOROCYCLOPENTADIENE	1.8	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						HEXACHLOROETHANE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						INDENO(1,2,3-CD)PYRENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						ISOPHORONE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						N-NITROSODI-N-PROPYLAMINE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						N-NITROSODIPHENYLAMINE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						NAPHTHALENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						NITROBENZENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						PENTACHLOROPHENOL	1.8	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						PHENANTHRENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						PHENOL	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
						PYRENE	.37	mg/kg	U	N	Y	U	U					CN5C2S	19:01
DT0002	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CN5C5S	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	12600	mg/kg		Y	Y	P						CN5C5S	16:30
						ANTIMONY	6.9	mg/kg	U	N	Y	U	U					CN5C5S	16:30
						BARIUM	30.8	mg/kg		Y	Y	P						CN5C5S	16:30
						BERYLLIUM	0.57	mg/kg	U	N	Y	U	U					CN5C5S	16:30
						CADMIUM	0.57	mg/kg	U	N	Y	U	U					CN5C5S	16:30
						CALCIUM	571	mg/kg	U	N	Y	U	R	08A				CN5C5S	16:30
						CHROMIUM	51.9	mg/kg		Y	Y	P	J	08A				CN5C5S	16:30
						COBALT	7.5	mg/kg		Y	Y	P	J	05B				CN5C5S	16:30
						COPPER	7.8	mg/kg		Y	Y	P						CN5C5S	16:30
						IRON	31100	mg/kg		Y	Y	P						CN5C5S	16:30
						MAGNESIUM	571	mg/kg	U	N	Y	U	UJ	08A				CN5C5S	16:30
						MANGANESE	537	mg/kg		Y	Y	P						CN5C5S	16:30
						NICKEL	7.0	mg/kg		Y	Y	P						CN5C5S	16:30
						POTASSIUM	571	mg/kg	U	N	Y	U	U					CN5C5S	16:30
						SILVER	1.1	mg/kg	U	N	Y	U	U					CN5C5S	16:30
						SODIUM	571	mg/kg	U	N	Y	U	U					CN5C5S	16:30
						VANADIUM	34.9	mg/kg		Y	Y	P						CN5C5S	16:30
						ZINC	17.3	mg/kg		Y	Y	P						CN5C5S	16:30
	SW6010	SW3050	N	1	1	ARSENIC	7.9	mg/kg		Y	Y	P	J	13				CN5C5S	01:31
						LEAD	14.8	mg/kg		Y	Y	P						CN5C5S	01:31

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0002	SW6010	SW3050	N	1	1	SELENIUM	0.57	mg/kg	U	N	Y	U	U					CN5C5S	01:31
						THALLIUM	1.1	mg/kg	U	N	Y	U	U					CN5C5S	01:31
	SW7471	TOTAL	N	0	1	MERCURY	0.058	mg/kg		Y	Y	P						CN5C5S	18:19
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,1,1-TRICHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,1,2,2-TETRACHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,1,2-TRICHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,1-DICHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,1-DICHLOROETHENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,1-DICHLOROPROPENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,2,3-TRICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	UJ	05B				CN5C5S	21:29
						1,2,3-TRICHLOROPROPANE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,2,4-TRICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	UJ	05B				CN5C5S	21:29
						1,2,4-TRIMETHYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,2-DIBROMO-3-CHLOROPROPANE	.011	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,2-DIBROMOETHANE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,2-DICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,2-DICHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,2-DICHLOROPROPANE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,3,5-TRIMETHYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,3-DICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,3-DICHLOROPROPANE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						1,4-DICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						2,2-DICHLOROPROPANE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						2-BUTANONE	.023	mg/kg	U	N	Y	U	R	04A	05A			CN5C5S	21:29
						2-CHLOROTOLUENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						2-HEXANONE	.023	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						4-CHLOROTOLUENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						4-METHYL-2-PENTANONE	.023	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						ACETONE	.024	mg/kg		Y	Y	F	B	04A	05A	06C		CN5C5S	21:29
						BENZENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						BROMOBENZENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						BROMOCHLOROMETHANE	.0057	mg/kg	U	N	Y	U	R	05A				CN5C5S	21:29
						BROMODICHLOROMETHANE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						BROMOFORM	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						BROMOMETHANE	.011	mg/kg	U	N	Y	U	R	04A	04B	05A		CN5C5S	21:29
						CARBON DISULFIDE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						CARBON TETRACHLORIDE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						CHLOROBENZENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						CHLORODIBROMOMETHANE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						CHLOROETHANE	.011	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						CHLOROFORM	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						CHLOROMETHANE	.011	mg/kg	U	N	Y	U	U					CN5C5S	21:29

Validation Qualifier Data Entry Verification

Run Date: January 19, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0002	SW8260	SW5030	N	0	1	CIS-1,2-DICHLOROETHENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						CIS-1,3-DICHLOROPROPENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						DIBROMOMETHANE	.0057	mg/kg	U	N	Y	U	R	05A				CN5C5S	21:29
						DICHLORODIFLUOROMETHANE	.011	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						ETHYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						HEXACHLOROBUTADIENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						ISOPROPYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						M-XYLENE & P-XYLENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						METHYLENE CHLORIDE	.0054	mg/kg	J B	Y	Y	F	B	04B	06A	15		CN5C5S	21:29
						N-BUTYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						N-PROPYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						NAPHTHALENE	.0057	mg/kg	U	N	Y	U	UJ	05B				CN5C5S	21:29
						O-XYLENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						P-ISOPROPYLTOLUENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						SEC-BUTYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						STYRENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						TERT-BUTYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						TETRACHLOROETHENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						TOLUENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						TRANS-1,2-DICHLOROETHENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						TRANS-1,3-DICHLOROPROPENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						TRICHLOROETHENE	.0057	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						TRICHLOROFLUOROMETHANE	.011	mg/kg	U	N	Y	U	U					CN5C5S	21:29
						VINYL CHLORIDE	.011	mg/kg	U	N	Y	U	U					CN5C5S	21:29
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						1,2-DICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						1,3-DICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						1,4-DICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						2,2'-OXYBIS(1-CHLOROPROPANE)	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						2,4,5-TRICHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						2,4,6-TRICHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						2,4-DICHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						2,4-DIMETHYLPHENOL	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						2,4-DINITROPHENOL	1.8	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						2,4-DINITROTOLUENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						2,6-DINITROTOLUENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						2-CHLORONAPHTHALENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						2-CHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						2-METHYLNAPHTHALENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						2-METHYLPHENOL	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						2-NITROANILINE	1.8	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						2-NITROPHENOL	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
						3,3'-DICHLOROBENZIDINE	1.8	mg/kg	U	N	Y	U	U					CN5C5S	18:43

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0002	SW8270	SW3550	N 0 1	3-NITROANILINE	1.8	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				4,6-DINITRO-2-METHYLPHENOL	1.8	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				4-BROMOPHENYL PHENYL ETHER	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				4-CHLORO-3-METHYLPHENOL	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				4-CHLOROANILINE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				4-CHLOROPHENYL PHENYL ETHER	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				4-METHYLPHENOL	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				4-NITROANILINE	1.8	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				4-NITROPHENOL	1.8	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				ACENAPHTHENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				ACENAPHTHYLENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				ANTHRACENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				BENZ(A)ANTHRACENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				BENZO(A)PYRENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				BENZO(B)FLUORANTHENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				BENZO(GHI)PERYLENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				BENZO(K)FLUORANTHENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				BIS(2-CHLOROETHOXY)METHANE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				BIS(2-CHLOROETHYL) ETHER	.11	mg/kg	J	Y	Y	P	J	15				CN5C5S	18:43
				BIS(2-ETHYLHEXYL) PHTHALATE	.077	mg/kg	J	Y	Y	P	J	15				CN5C5S	18:43
				BUTYL BENZYL PHTHALATE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				CARBAZOLE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				CHRYSENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				DI-N-BUTYL PHTHALATE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				DI-N-OCTYL PHTHALATE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				DIBENZ(A,H)ANTHRACENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				DIBENZOFURAN	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				DIETHYL PHTHALATE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				DIMETHYL PHTHALATE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				FLUORANTHENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				FLUORENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				HEXACHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				HEXACHLOROBUTADIENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				HEXACHLOROCYCLOPENTADIENE	1.8	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				HEXACHLOROETHANE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				INDENO(1,2,3-CD)PYRENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				ISOPHORONE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				N-NITROSODI-N-PROPYLAMINE	.38	mg/kg	U	N	Y	U	UJ	05B				CN5C5S	18:43
				N-NITROSODIPHENYLAMINE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				NAPHTHALENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				NITROBENZENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				PENTACHLOROPHENOL	1.8	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				PHENANTHRENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
				PHENOL	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0002	SW8270	SW3550	N	0	1	PYRENE	.38	mg/kg	U	N	Y	U	U					CN5C5S	18:43
DT0003	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y							CN5C6S	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	5940	mg/kg		Y	Y							CN5C6S	16:35
						ANTIMONY	6.7	mg/kg	U	N	Y		U					CN5C6S	16:35
						BARIUM	33.2	mg/kg		Y	Y							CN5C6S	16:35
						BERYLLIUM	0.55	mg/kg	U	N	Y		U					CN5C6S	16:35
						CADMIUM	0.55	mg/kg	U	N	Y		U					CN5C6S	16:35
						CALCIUM	1630	mg/kg		Y	Y		J	08A	17			CN5C6S	16:35
						CHROMIUM	10.7	mg/kg		Y	Y		J	08A				CN5C6S	16:35
						COBALT	5.5	mg/kg	U	N	Y		UJ	05B				CN5C6S	16:35
						COPPER	6.5	mg/kg		Y	Y							CN5C6S	16:35
						IRON	9280	mg/kg		Y	Y							CN5C6S	16:35
						MAGNESIUM	864	mg/kg		Y	Y		J	08A	17			CN5C6S	16:35
						MANGANESE	526	mg/kg		Y	Y							CN5C6S	16:35
						NICKEL	4.4	mg/kg	U	N	Y		U					CN5C6S	16:35
						POTASSIUM	555	mg/kg	U	N	Y		U					CN5C6S	16:35
						SILVER	1.1	mg/kg	U	N	Y		U					CN5C6S	16:35
						SODIUM	555	mg/kg	U	N	Y		U					CN5C6S	16:35
						VANADIUM	9.5	mg/kg		Y	Y							CN5C6S	16:35
						ZINC	41.7	mg/kg		Y	Y							CN5C6S	16:35
	SW6010	SW3050	N	1	1	ARSENIC	4.6	mg/kg		Y	Y		J	13				CN5C6S	01:36
						LEAD	12.9	mg/kg		Y	Y							CN5C6S	01:36
						SELENIUM	0.55	mg/kg	U	N	Y		U					CN5C6S	01:36
						THALLIUM	1.1	mg/kg	U	N	Y		U					CN5C6S	01:36
	SW7471	TOTAL	N	0	1	MERCURY	0.037	mg/kg	U	N	Y		U					CN5C6S	18:22
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0055	mg/kg	U	N	Y		U					CN5C6S	21:54
						1,1,1-TRICHLOROETHANE	.0055	mg/kg	U	N	Y		U					CN5C6S	21:54
						1,1,2,2-TETRACHLOROETHANE	.0055	mg/kg	U	N	Y		U					CN5C6S	21:54
						1,1,2-TRICHLOROETHANE	.0055	mg/kg	U	N	Y		U					CN5C6S	21:54
						1,1-DICHLOROETHANE	.0055	mg/kg	U	N	Y		U					CN5C6S	21:54
						1,1-DICHLOROETHENE	.0055	mg/kg	U	N	Y		U					CN5C6S	21:54
						1,1-DICHLOROPROPENE	.0055	mg/kg	U	N	Y		U					CN5C6S	21:54
						1,2,3-TRICHLOROBENZENE	.0055	mg/kg	U	N	Y		UJ	05B				CN5C6S	21:54
						1,2,3-TRICHLOROPROPANE	.0055	mg/kg	U	N	Y		U					CN5C6S	21:54
						1,2,4-TRICHLOROBENZENE	.0055	mg/kg	U	N	Y		UJ	05B				CN5C6S	21:54
						1,2,4-TRIMETHYLBENZENE	.0055	mg/kg	U	N	Y		U					CN5C6S	21:54
						1,2-DIBROMO-3-CHLOROPROPANE	.011	mg/kg	U	N	Y		U					CN5C6S	21:54
						1,2-DIBROMOETHANE	.0055	mg/kg	U	N	Y		U					CN5C6S	21:54
						1,2-DICHLOROBENZENE	.0055	mg/kg	U	N	Y		U					CN5C6S	21:54
						1,2-DICHLOROETHANE	.0055	mg/kg	U	N	Y		U					CN5C6S	21:54
						1,2-DICHLOROPROPANE	.0055	mg/kg	U	N	Y		U					CN5C6S	21:54
						1,3,5-TRIMETHYLBENZENE	.0055	mg/kg	U	N	Y		U					CN5C6S	21:54
						1,3-DICHLOROBENZENE	0055	mg/kg	U	N	Y		U					CN5C6[illegible]	21:54

Validation Qualifier Data Entry Verification

Run Date: January 19, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0003	SW8260	SW5030	N 0 1	1,3-DICHLOROPROPANE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				1,4-DICHLOROBENZENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				2,2-DICHLOROPROPANE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				2-BUTANONE	.012	mg/kg	J	Y Y	B	04A	05A	06C	15	CN5C6S	21:54
				2-CHLOROTOLUENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				2-HEXANONE	.022	mg/kg	U	N Y	U					CN5C6S	21:54
				4-CHLOROTOLUENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				4-METHYL-2-PENTANONE	.022	mg/kg	U	N Y	U					CN5C6S	21:54
				ACETONE	.27	mg/kg		Y Y	J	04A	05A			CN5C6S	21:54
				BENZENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				BROMOBENZENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				BROMOCHLOROMETHANE	.0055	mg/kg	U	N Y	R	05A				CN5C6S	21:54
				BROMODICHLOROMETHANE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				BROMOFORM	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				BROMOMETHANE	.0045	mg/kg	J B	Y Y	B	04	05A	06A	15	CN5C6S	21:54
				CARBON DISULFIDE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				CARBON TETRACHLORIDE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				CHLOROBENZENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				CHLORODIBROMOMETHANE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				CHLOROETHANE	.011	mg/kg	U	N Y	U					CN5C6S	21:54
				CHLOROFORM	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				CHLOROMETHANE	.011	mg/kg	U	N Y	U					CN5C6S	21:54
				CIS-1,2-DICHLOROETHENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				CIS-1,3-DICHLOROPROPENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				DIBROMOMETHANE	.0055	mg/kg	U	N Y	R	05A				CN5C6S	21:54
				DICHLORODIFLUOROMETHANE	.011	mg/kg	U	N Y	U					CN5C6S	21:54
				ETHYLBENZENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				HEXACHLOROBUTADIENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				ISOPROPYLBENZENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				M-XYLENE & P-XYLENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				METHYLENE CHLORIDE	.0047	mg/kg	J B	Y Y	B	04B	06A	15		CN5C6S	21:54
				N-BUTYLBENZENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				N-PROPYLBENZENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				NAPHTHALENE	.0055	mg/kg	U	N Y	UJ	05B				CN5C6S	21:54
				O-XYLENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				P-ISOPROPYLTOLUENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				SEC-BUTYLBENZENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				STYRENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				TERT-BUTYLBENZENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				TETRACHLOROETHENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				TOLUENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				TRANS-1,2-DICHLOROETHENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				TRANS-1,3-DICHLOROPROPENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54
				TRICHLOROETHENE	.0055	mg/kg	U	N Y	U					CN5C6S	21:54

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0003	SW8260	SW5030	N	0	1	TRICHLOROFLUOROMETHANE	.011	mg/kg	U	N	Y		U					CN5C6S	21:54
						VINYL CHLORIDE	.011	mg/kg	U	N	Y		U					CN5C6S	21:54
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						1,2-DICHLOROBENZENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						1,3-DICHLOROBENZENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						1,4-DICHLOROBENZENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						2,2'-OXYBIS(1-CHLOROPROPANE)	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						2,4,5-TRICHLOROPHENOL	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						2,4,6-TRICHLOROPHENOL	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						2,4-DICHLOROPHENOL	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						2,4-DIMETHYLPHENOL	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						2,4-DINITROPHENOL	1.8	mg/kg	U	N	Y		U					CN5C6S	19:27
						2,4-DINITROTOLUENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						2,6-DINITROTOLUENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						2-CHLORONAPHTHALENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						2-CHLOROPHENOL	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						2-METHYLNAPHTHALENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						2-METHYLPHENOL	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						2-NITROANILINE	1.8	mg/kg	U	N	Y		U					CN5C6S	19:27
						2-NITROPHENOL	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						3,3'-DICHLOROBENZIDINE	1.8	mg/kg	U	N	Y		U					CN5C6S	19:27
						3-NITROANILINE	1.8	mg/kg	U	N	Y		U					CN5C6S	19:27
						4,6-DINITRO-2-METHYLPHENOL	1.8	mg/kg	U	N	Y		U					CN5C6S	19:27
						4-BROMOPHENYL PHENYL ETHER	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						4-CHLORO-3-METHYLPHENOL	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						4-CHLOROANILINE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						4-CHLOROPHENYL PHENYL ETHER	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						4-METHYLPHENOL	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						4-NITROANILINE	1.8	mg/kg	U	N	Y		U					CN5C6S	19:27
						4-NITROPHENOL	1.8	mg/kg	U	N	Y		U					CN5C6S	19:27
						ACENAPHTHENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						ACENAPHTHYLENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						ANTHRACENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						BENZ(A)ANTHRACENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						BENZO(A)PYRENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						BENZO(B)FLUORANTHENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						BENZO(GHI)PERYLENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						BENZO(K)FLUORANTHENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						BIS(2-CHLOROETHOXY)METHANE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						BIS(2-CHLOROETHYL) ETHER	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						BIS(2-ETHYLHEXYL) PHTHALATE	.18	mg/kg	J	Y	Y		J	15	17			CN5C6S	19:27
						BUTYL BENZYL PHTHALATE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						CARBAZOLE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0003	SW8270	SW3550	N	0	1	CHRYSENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						DI-N-BUTYL PHTHALATE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						DI-N-OCTYL PHTHALATE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						DIBENZ(A,H)ANTHRACENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						DIBENZOFURAN	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						DIETHYL PHTHALATE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						DIMETHYL PHTHALATE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						FLUORANTHENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						FLUORENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						HEXACHLOROBENZENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						HEXACHLOROBUTADIENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						HEXACHLOROCYCLOPENTADIENE	1.8	mg/kg	U	N	Y		U					CN5C6S	19:27
						HEXACHLOROETHANE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						INDENO(1,2,3-CD)PYRENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						ISOPHORONE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						N-NITROSODI-N-PROPYLAMINE	.37	mg/kg	U	N	Y		UJ	05B				CN5C6S	19:27
						N-NITROSODIPHENYLAMINE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						NAPHTHALENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						NITROBENZENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						PENTACHLOROPHENOL	1.8	mg/kg	U	N	Y		U					CN5C6S	19:27
						PHENANTHRENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						PHENOL	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
						PYRENE	.37	mg/kg	U	N	Y		U					CN5C6S	19:27
DT0005	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CN02JS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	8380	mg/kg		Y	Y	P						CN02JS	15:32
						ANTIMONY	6.4	mg/kg	U	N	Y	U	U					CN02JS	15:32
						BARIUM	60.1	mg/kg		Y	Y	P						CN02JS	15:32
						BERYLLIUM	0.53	mg/kg	U	N	Y	U	U					CN02JS	15:32
						CADMIUM	0.53	mg/kg	U	N	Y	U	U					CN02JS	15:32
						CALCIUM	17800	mg/kg		Y	Y	P	J	08A				CN02JS	15:32
						CHROMIUM	18.3	mg/kg		Y	Y	P	J	08A				CN02JS	15:32
						COBALT	7.2	mg/kg		Y	Y	P						CN02JS	15:32
						COPPER	6.6	mg/kg		Y	Y	P						CN02JS	15:32
						IRON	15600	mg/kg		Y	Y	P						CN02JS	15:32
						MAGNESIUM	8820	mg/kg		Y	Y	P	J	08A				CN02JS	15:32
						MANGANESE	621	mg/kg		Y	Y	P						CN02JS	15:32
						NICKEL	4.9	mg/kg		Y	Y	P						CN02JS	15:32
						POTASSIUM	532	mg/kg	U	N	Y	U	U					CN02JS	15:32
						SILVER	1.1	mg/kg	U	N	Y	U	U					CN02JS	15:32
						SODIUM	532	mg/kg	U	N	Y	U	U					CN02JS	15:32
						VANADIUM	20.1	mg/kg		Y	Y	P						CN02JS	15:32
						ZINC	41.4	mg/kg		Y	Y	P						CN02JS	15:32
	SW6010	SW3050	N	1	1	ARSENIC	4.4	mg/kg		Y	Y	P	J	13				CN02JS	00:24

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0005	SW6010	SW3050	N	1	1	LEAD	29.2	mg/kg		Y	Y	P						CN02JS	00:24
						SELENIUM	0.53	mg/kg	U	N	Y	U	U					CN02JS	00:24
						THALLIUM	1.1	mg/kg	U	N	Y	U	U					CN02JS	00:24
	SW7471	TOTAL	N	0	1	MERCURY	0.061	mg/kg		Y	Y	P						CN02JS	17:54
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						1,1,1-TRICHLOROETHANE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						1,1,2,2-TETRACHLOROETHANE	.0053	mg/kg	U	N	Y	U	UJ	10A				CN02JS	15:32
						1,1,2-TRICHLOROETHANE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						1,1-DICHLOROETHANE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						1,1-DICHLOROETHENE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						1,1-DICHLOROPROPENE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						1,2,3-TRICHLOROBENZENE	.0053	mg/kg	U	N	Y	U	UJ	05B	10A			CN02JS	15:32
						1,2,3-TRICHLOROPROPANE	.0053	mg/kg	U	N	Y	U	UJ	10A				CN02JS	15:32
						1,2,4-TRICHLOROBENZENE	.0053	mg/kg	U	N	Y	U	UJ	10A				CN02JS	15:32
						1,2,4-TRIMETHYLBENZENE	.0053	mg/kg	U	N	Y	U	UJ	10A				CN02JS	15:32
						1,2-DIBROMO-3-CHLOROPROPANE	.011	mg/kg	U	N	Y	U	UJ	10A				CN02JS	15:32
						1,2-DIBROMOETHANE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						1,2-DICHLOROBENZENE	.0053	mg/kg	U	N	Y	U	UJ	10A				CN02JS	15:32
						1,2-DICHLOROETHANE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						1,2-DICHLOROPROPANE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						1,3,5-TRIMETHYLBENZENE	.0053	mg/kg	U	N	Y	U	UJ	10A				CN02JS	15:32
						1,3-DICHLOROBENZENE	.0053	mg/kg	U	N	Y	U	UJ	10A				CN02JS	15:32
						1,3-DICHLOROPROPANE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						1,4-DICHLOROBENZENE	.0053	mg/kg	U	N	Y	U	UJ	10A				CN02JS	15:32
						2,2-DICHLOROPROPANE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						2-BUTANONE	.005	mg/kg	J	Y	Y	P	J	04A	05A	15		CN02JS	15:32
						2-CHLOROTOLUENE	.0053	mg/kg	U	N	Y	U	UJ	10A				CN02JS	15:32
						2-HEXANONE	.021	mg/kg	U	N	Y	U	UJ	05B				CN02JS	15:32
						4-CHLOROTOLUENE	.0053	mg/kg	U	N	Y	U	UJ	10A				CN02JS	15:32
						4-METHYL-2-PENTANONE	.021	mg/kg	U	N	Y	U	UJ	05B				CN02JS	15:32
						ACETONE	.092	mg/kg	B	Y	Y	P	J	04A	05A			CN02JS	15:32
						BENZENE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						BROMOBENZENE	.0053	mg/kg	U	N	Y	U	UJ	10A				CN02JS	15:32
						BROMOCHLOROMETHANE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						BROMODICHLOROMETHANE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						BROMOFORM	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						BROMOMETHANE	.011	mg/kg	U	N	Y	U	R	04A	04B	05A		CN02JS	15:32
						CARBON DISULFIDE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						CARBON TETRACHLORIDE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						CHLOROBENZENE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						CHLORODIBROMOMETHANE	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32
						CHLOROETHANE	.011	mg/kg	U	N	Y	U	U					CN02JS	15:32
						CHLOROFORM	.0053	mg/kg	U	N	Y	U	U					CN02JS	15:32

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0005	SW8260	SW5030	N 0 1	CHLOROMETHANE	.011	mg/kg	U	N Y U	U					CN02JS	15:32
				CIS-1,2-DICHLOROETHENE	.0053	mg/kg	U	N Y U	U					CN02JS	15:32
				CIS-1,3-DICHLOROPROPENE	.0053	mg/kg	U	N Y U	U					CN02JS	15:32
				DIBROMOMETHANE	.0053	mg/kg	U	N Y U	U					CN02JS	15:32
				DICHLORODIFLUOROMETHANE	.011	mg/kg	U	N Y U	U					CN02JS	15:32
				ETHYLBENZENE	.0053	mg/kg	U	N Y U	U					CN02JS	15:32
				HEXACHLOROBUTADIENE	.0053	mg/kg	U	N Y U	UJ	10A				CN02JS	15:32
				ISOPROPYLBENZENE	.0053	mg/kg	U	N Y U	U					CN02JS	15:32
				M-XYLENE & P-XYLENE	.0053	mg/kg	U	N Y U	U					CN02JS	15:32
				METHYLENE CHLORIDE	.0033	mg/kg	J B	Y Y F	B	06A	15			CN02JS	15:32
				N-BUTYLBENZENE	.0053	mg/kg	U	N Y U	UJ	10A				CN02JS	15:32
				N-PROPYLBENZENE	.0053	mg/kg	U	N Y U	UJ	10A				CN02JS	15:32
				NAPHTHALENE	.0053	mg/kg	U	N Y U	UJ	05B	10A			CN02JS	15:32
				O-XYLENE	.0053	mg/kg	U	N Y U	U					CN02JS	15:32
				P-ISOPROPYLTOLUENE	.0064	mg/kg		Y Y P	J	10A				CN02JS	15:32
				SEC-BUTYLBENZENE	.0053	mg/kg	U	N Y U	UJ	10A				CN02JS	15:32
				STYRENE	.0053	mg/kg	U	N Y U	U					CN02JS	15:32
				TERT-BUTYLBENZENE	.0053	mg/kg	U	N Y U	UJ	10A				CN02JS	15:32
				TETRACHLOROETHENE	.0053	mg/kg	U	N Y U	U					CN02JS	15:32
				TOLUENE	.0037	mg/kg	J	Y Y P	J	15				CN02JS	15:32
				TRANS-1,2-DICHLOROETHENE	.0053	mg/kg	U	N Y U	U					CN02JS	15:32
				TRANS-1,3-DICHLOROPROPENE	.0053	mg/kg	U	N Y U	U					CN02JS	15:32
				TRICHLOROETHENE	.0053	mg/kg	U	N Y U	U					CN02JS	15:32
				TRICHLOROFLUOROMETHANE	.011	mg/kg	U	N Y U	U					CN02JS	15:32
				VINYL CHLORIDE	.011	mg/kg	U	N Y U	U					CN02JS	15:32
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				1,2-DICHLOROBENZENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				1,3-DICHLOROBENZENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				1,4-DICHLOROBENZENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				2,2'-OXYBIS(1-CHLOROPROPANE)	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				2,4,5-TRICHLOROPHENOL	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				2,4,6-TRICHLOROPHENOL	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				2,4-DICHLOROPHENOL	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				2,4-DIMETHYLPHENOL	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				2,4-DINITROPHENOL	1.7	mg/kg	U	N Y U	U					CN02JS	14:18
				2,4-DINITROTOLUENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				2,6-DINITROTOLUENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				2-CHLORONAPHTHALENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				2-CHLOROPHENOL	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				2-METHYLNAPHTHALENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				2-METHYLPHENOL	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				2-NITROANILINE	1.7	mg/kg	U	N Y U	U					CN02JS	14:18
				2-NITROPHENOL	.35	mg/kg	U	N Y U	U					CN02JS	14:18

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0005	SW8270	SW3550	N 0 1	3,3'-DICHLOROBENZIDINE	1.7	mg/kg	U	N Y U	U					CN02JS	14:18
				3-NITROANILINE	1.7	mg/kg	U	N Y U	U					CN02JS	14:18
				4,6-DINITRO-2-METHYLPHENOL	1.7	mg/kg	U	N Y U	U					CN02JS	14:18
				4-BROMOPHENYL PHENYL ETHER	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				4-CHLORO-3-METHYLPHENOL	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				4-CHLOROANILINE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				4-CHLOROPHENYL PHENYL ETHER	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				4-METHYLPHENOL	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				4-NITROANILINE	1.7	mg/kg	U	N Y U	U					CN02JS	14:18
				4-NITROPHENOL	1.7	mg/kg	U	N Y U	U					CN02JS	14:18
				ACENAPHTHENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				ACENAPHTHYLENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				ANTHRACENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				BENZ(A)ANTHRACENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				BENZO(A)PYRENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				BENZO(B)FLUORANTHENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				BENZO(GHI)PERYLENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				BENZO(K)FLUORANTHENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				BIS(2-CHLOROETHOXY)METHANE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				BIS(2-CHLOROETHYL) ETHER	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				BIS(2-ETHYLHEXYL) PHTHALATE	.083	mg/kg	J	Y Y P	J	15				CN02JS	14:18
				BUTYL BENZYL PHTHALATE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				CARBAZOLE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				CHRYSENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				DI-N-BUTYL PHTHALATE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				DI-N-OCTYL PHTHALATE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				DIBENZ(A,H)ANTHRACENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				DIBENZOFURAN	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				DIETHYL PHTHALATE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				DIMETHYL PHTHALATE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				FLUORANTHENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				FLUORENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				HEXACHLOROBENZENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				HEXACHLOROBUTADIENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				HEXACHLOROCYCLOPENTADIENE	1.7	mg/kg	U	N Y U	U					CN02JS	14:18
				HEXACHLOROETHANE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				INDENO(1,2,3-CD)PYRENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				ISOPHORONE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				N-NITROSODI-N-PROPYLAMINE	.35	mg/kg	U	N Y U	UJ	05B				CN02JS	14:18
				N-NITROSODIPHENYLAMINE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				NAPHTHALENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				NITROBENZENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18
				PENTACHLOROPHENOL	1.7	mg/kg	U	N Y U	U					CN02JS	14:18
				PHENANTHRENE	.35	mg/kg	U	N Y U	U					CN02JS	14:18

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0005	SW8270	SW3550	N	0	1	PHENOL	.35	mg/kg	U	N	Y	U	U					CN02JS	14:18
						PYRENE	.35	mg/kg	U	N	Y	U	U					CN02JS	14:18
DT0006	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CN02LS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	7100	mg/kg		Y	Y	P						CN02LS	15:36
						ANTIMONY	6.6	mg/kg	U	N	Y	U	U					CN02LS	15:36
						BARIUM	21.9	mg/kg	U	N	Y	U	U					CN02LS	15:36
						BERYLLIUM	0.55	mg/kg	U	N	Y	U	U					CN02LS	15:36
						CADMIUM	0.55	mg/kg	U	N	Y	U	U					CN02LS	15:36
						CALCIUM	1400	mg/kg		Y	Y	P	J	08A				CN02LS	15:36
						CHROMIUM	30.5	mg/kg		Y	Y	P	J	08A				CN02LS	15:36
						COBALT	5.5	mg/kg	U	N	Y	U	U					CN02LS	15:36
						COPPER	7.3	mg/kg		Y	Y	P						CN02LS	15:36
						IRON	27200	mg/kg		Y	Y	P						CN02LS	15:36
						MAGNESIUM	823	mg/kg		Y	Y	P	J	08A				CN02LS	15:36
						MANGANESE	104	mg/kg		Y	Y	P						CN02LS	15:36
						NICKEL	4.4	mg/kg	U	N	Y	U	U					CN02LS	15:36
						POTASSIUM	547	mg/kg	U	N	Y	U	U					CN02LS	15:36
						SILVER	1.1	mg/kg	U	N	Y	U	U					CN02LS	15:36
						SODIUM	547	mg/kg	U	N	Y	U	U					CN02LS	15:36
						VANADIUM	24.7	mg/kg		Y	Y	P						CN02LS	15:36
						ZINC	12.4	mg/kg		Y	Y	F	B	06C				CN02LS	15:36
	SW6010	SW3050	N	1	1	ARSENIC	6.0	mg/kg		Y	Y	P	J	13				CN02LS	00:29
						LEAD	9.5	mg/kg		Y	Y	P						CN02LS	00:29
						SELENIUM	0.55	mg/kg	U	N	Y	U	U					CN02LS	00:29
						THALLIUM	1.1	mg/kg	U	N	Y	U	U					CN02LS	00:29
	SW7471	TOTAL	N	0	1	MERCURY	0.063	mg/kg		Y	Y	P						CN02LS	17:56
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
						1,1,1-TRICHLOROETHANE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
						1,1,2,2-TETRACHLOROETHANE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
						1,1,2-TRICHLOROETHANE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
						1,1-DICHLOROETHANE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
						1,1-DICHLOROETHENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
						1,1-DICHLOROPROPENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
						1,2,3-TRICHLOROBENZENE	.0055	mg/kg	U	N	Y	U	UJ	05B				CN02LS	15:57
						1,2,3-TRICHLOROPROPANE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
						1,2,4-TRICHLOROBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
						1,2,4-TRIMETHYLBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
						1,2-DIBROMO-3-CHLOROPROPANE	.011	mg/kg	U	N	Y	U	U					CN02LS	15:57
						1,2-DIBROMOETHANE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
						1,2-DICHLOROBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
						1,2-DICHLOROETHANE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
						1,2-DICHLOROPROPANE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
						1,3,5-TRIMETHYLBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57

Validation Qualifier Data Entry Verification

Fort McClellan

Run Date: January 19, 2001

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0006	SW8260	SW5030	N 0 1	1,3-DICHLOROBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				1,3-DICHLOROPROPANE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				1,4-DICHLOROBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				2,2-DICHLOROPROPANE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				2-BUTANONE	.022	mg/kg	U	N	Y	U	R	04A	05A			CN02LS	15:57
				2-CHLOROTOLUENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				2-HEXANONE	.022	mg/kg	U	N	Y	U	UJ	05B				CN02LS	15:57
				4-CHLOROTOLUENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				4-METHYL-2-PENTANONE	.022	mg/kg	U	N	Y	U	UJ	05B				CN02LS	15:57
				ACETONE	.11	mg/kg	B	Y	Y	P	J	04A	05A			CN02LS	15:57
				BENZENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				BROMOBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				BROMOCHLOROMETHANE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				BROMODICHLOROMETHANE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				BROMOFORM	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				BROMOMETHANE	.011	mg/kg	U	N	Y	U	R	04A	04B	05A		CN02LS	15:57
				CARBON DISULFIDE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				CARBON TETRACHLORIDE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				CHLOROBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				CHLORODIBROMOMETHANE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				CHLOROETHANE	.011	mg/kg	U	N	Y	U	U					CN02LS	15:57
				CHLOROFORM	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				CHLOROMETHANE	.011	mg/kg	U	N	Y	U	U					CN02LS	15:57
				CIS-1,2-DICHLOROETHENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				CIS-1,3-DICHLOROPROPENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				DIBROMOMETHANE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				DICHLORODIFLUOROMETHANE	.011	mg/kg	U	N	Y	U	U					CN02LS	15:57
				ETHYLBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				HEXACHLOROBUTADIENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				ISOPROPYLBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				M-XYLENE & P-XYLENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				METHYLENE CHLORIDE	.0043	mg/kg	J B	Y	Y	F	B	06A	15			CN02LS	15:57
				N-BUTYLBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				N-PROPYLBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				NAPHTHALENE	.0055	mg/kg	U	N	Y	U	UJ	05B				CN02LS	15:57
				O-XYLENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				P-ISOPROPYLTOLUENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				SEC-BUTYLBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				STYRENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				TERT-BUTYLBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				TETRACHLOROETHENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				TOLUENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				TRANS-1,2-DICHLOROETHENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57
				TRANS-1,3-DICHLOROPROPENE	.0055	mg/kg	U	N	Y	U	U					CN02LS	15:57

Validation Qualifier Data Entry Verification
Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0006	SW8260	SW5030	N 0 1	TRICHLOROETHENE	.0055	mg/kg	U	N Y U	U					CN02LS	15:57
				TRICHLOROFLUOROMETHANE	.011	mg/kg	U	N Y U	U					CN02LS	15:57
				VINYL CHLORIDE	.011	mg/kg	U	N Y U	U					CN02LS	15:57
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				1,2-DICHLOROBENZENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				1,3-DICHLOROBENZENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				1,4-DICHLOROBENZENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				2,2'-OXYBIS(1-CHLOROPROPANE)	.36	mg/kg	U	N Y U	UJ	05B				CN02LS	22:54
				2,4,5-TRICHLOROPHENOL	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				2,4,6-TRICHLOROPHENOL	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				2,4-DICHLOROPHENOL	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				2,4-DIMETHYLPHENOL	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				2,4-DINITROPHENOL	1.8	mg/kg	U	N Y U	U					CN02LS	22:54
				2,4-DINITROTOLUENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				2,6-DINITROTOLUENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				2-CHLORONAPHTHALENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				2-CHLOROPHENOL	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				2-METHYLNAPHTHALENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				2-METHYLPHENOL	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				2-NITROANILINE	1.8	mg/kg	U	N Y U	U					CN02LS	22:54
				2-NITROPHENOL	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				3,3'-DICHLOROBENZIDINE	1.8	mg/kg	U	N Y U	U					CN02LS	22:54
				3-NITROANILINE	1.8	mg/kg	U	N Y U	U					CN02LS	22:54
				4,6-DINITRO-2-METHYLPHENOL	1.8	mg/kg	U	N Y U	U					CN02LS	22:54
				4-BROMOPHENYL PHENYL ETHER	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				4-CHLORO-3-METHYLPHENOL	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				4-CHLOROANILINE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				4-CHLOROPHENYL PHENYL ETHER	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				4-METHYLPHENOL	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				4-NITROANILINE	1.8	mg/kg	U	N Y U	U					CN02LS	22:54
				4-NITROPHENOL	1.8	mg/kg	U	N Y U	UJ	05B				CN02LS	22:54
				ACENAPHTHENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				ACENAPHTHYLENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				ANTHRACENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				BENZ(A)ANTHRACENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				BENZO(A)PYRENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				BENZO(B)FLUORANTHENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				BENZO(GHI)PERYLENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				BENZO(K)FLUORANTHENE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				BIS(2-CHLOROETHOXY)METHANE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				BIS(2-CHLOROETHYL) ETHER	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				BIS(2-ETHYLHEXYL) PHTHALATE	.36	mg/kg	U	N Y U	U					CN02LS	22:54
				BUTYL BENZYL PHTHALATE	.36	mg/kg	U	N Y U	U					CN02LS	22:54

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0006	SW8270	SW3550	N	0	1	CARBAZOLE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						CHRYSENE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						DI-N-BUTYL PHTHALATE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						DI-N-OCTYL PHTHALATE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						DIBENZ(A,H)ANTHRACENE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						DIBENZOFURAN	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						DIETHYL PHTHALATE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						DIMETHYL PHTHALATE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						FLUORANTHENE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						FLUORENE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						HEXACHLOROBENZENE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						HEXACHLOROBUTADIENE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						HEXACHLOROCYCLOPENTADIENE	1.8	mg/kg	U	N	Y	U	U					CN02LS	22:54
						HEXACHLOROETHANE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						INDENO(1,2,3-CD)PYRENE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						ISOPHORONE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						N-NITROSODI-N-PROPYLAMINE	.36	mg/kg	U	N	Y	U	UJ	05B				CN02LS	22:54
						N-NITROSODIPHENYLAMINE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						NAPHTHALENE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						NITROBENZENE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						PENTACHLOROPHENOL	1.8	mg/kg	U	N	Y	U	U					CN02LS	22:54
						PHENANTHRENE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						PHENOL	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
						PYRENE	.36	mg/kg	U	N	Y	U	U					CN02LS	22:54
DT0007	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CN02NS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	13900	mg/kg		Y	Y	P						CN02NS	15:51
						ANTIMONY	6.8	mg/kg	U	N	Y	U	U					CN02NS	15:51
						BARIUM	85.0	mg/kg		Y	Y	P						CN02NS	15:51
						BERYLLIUM	0.68	mg/kg		Y	Y	P						CN02NS	15:51
						CADMIUM	0.57	mg/kg	U	N	Y	U	U					CN02NS	15:51
						CALCIUM	567	mg/kg	U	N	Y	U	R	08A				CN02NS	15:51
						CHROMIUM	38.3	mg/kg		Y	Y	P	J	08A				CN02NS	15:51
						COBALT	9.9	mg/kg		Y	Y	P	J	05B				CN02NS	15:51
						COPPER	6.8	mg/kg		Y	Y	P						CN02NS	15:51
						IRON	24100	mg/kg		Y	Y	P						CN02NS	15:51
						MAGNESIUM	567	mg/kg	U	N	Y	U	UJ	08A				CN02NS	15:51
						MANGANESE	561	mg/kg		Y	Y	P						CN02NS	15:51
						NICKEL	8.1	mg/kg		Y	Y	P						CN02NS	15:51
						POTASSIUM	567	mg/kg	U	N	Y	U	U					CN02NS	15:51
						SILVER	1.1	mg/kg	U	N	Y	U	U					CN02NS	15:51
						SODIUM	567	mg/kg	U	N	Y	U	U					CN02NS	15:51
						VANADIUM	27.4	mg/kg		Y	Y	P						CN02NS	15:51
						ZINC	19.2	mg/kg		Y	Y	F	B	06C				CN02NS	15:51

Validation Qualifier Data Entry Verification

Run Date: January 19, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0007	SW6010	SW3050	N	1	1	ARSENIC	6.3	mg/kg		Y	Y	P	J	13				CN02NS	00:46
						LEAD	21.9	mg/kg		Y	Y	P						CN02NS	00:46
						SELENIUM	0.57	mg/kg	U	N	Y	U	U					CN02NS	00:46
						THALLIUM	1.1	mg/kg	U	N	Y	U	U					CN02NS	00:46
	SW7471	TOTAL	N	0	1	MERCURY	0.078	mg/kg		Y	Y	P						CN02NS	17:58
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,1,1-TRICHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,1,2,2-TETRACHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,1,2-TRICHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,1-DICHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,1-DICHLOROETHENE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,1-DICHLOROPROPENE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,2,3-TRICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	UJ	05B				CN02NS	16:22
						1,2,3-TRICHLOROPROPANE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,2,4-TRICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,2,4-TRIMETHYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,2-DIBROMO-3-CHLOROPROPANE	.011	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,2-DIBROMOETHANE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,2-DICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,2-DICHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,2-DICHLOROPROPANE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,3,5-TRIMETHYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,3-DICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,3-DICHLOROPROPANE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						1,4-DICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						2,2-DICHLOROPROPANE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						2-BUTANONE	.0057	mg/kg	J	Y	Y	P	J	04A	05A	15		CN02NS	16:22
						2-CHLOROTOLUENE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						2-HEXANONE	.023	mg/kg	U	N	Y	U	UJ	05B				CN02NS	16:22
						4-CHLOROTOLUENE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						4-METHYL-2-PENTANONE	.023	mg/kg	U	N	Y	U	UJ	05B				CN02NS	16:22
						ACETONE	1.1	mg/kg	B E	Y	N	P	R	16				CN02NS	16:22
						BENZENE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						BROMOBENZENE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						BROMOCHLOROMETHANE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						BROMODICHLOROMETHANE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						BROMOFORM	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						BROMOMETHANE	.0023	mg/kg	J	Y	Y	P	J	04A	04B	05A		CN02NS	16:22
						CARBON DISULFIDE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						CARBON TETRACHLORIDE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						CHLOROBENZENE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						CHLORODIBROMOMETHANE	.0057	mg/kg	U	N	Y	U	U					CN02NS	16:22
						CHLOROETHANE	.011	mg/kg	U	N	Y	U	U					CN02NS	16:22

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0007	SW8260	SW5030	N 0 1	CHLOROFORM	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				CHLOROMETHANE	.011	mg/kg	U	N Y U	U					CN02NS	16:22
				CIS-1,2-DICHLOROETHENE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				CIS-1,3-DICHLOROPROPENE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				DIBROMOMETHANE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				DICHLORODIFLUOROMETHANE	.011	mg/kg	U	N Y U	U					CN02NS	16:22
				ETHYLBENZENE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				HEXACHLOROBUTADIENE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				ISOPROPYLBENZENE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				M-XYLENE & P-XYLENE	.0057	mg/kg		Y Y P						CN02NS	16:22
				METHYLENE CHLORIDE	.0038	mg/kg	J B	Y Y F	B	06A	15			CN02NS	16:22
				N-BUTYLBENZENE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				N-PROPYLBENZENE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				NAPHTHALENE	.0057	mg/kg	U	N Y U	UJ	05B				CN02NS	16:22
				O-XYLENE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				P-ISOPROPYLTOLUENE	.058	mg/kg		Y Y P						CN02NS	16:22
				SEC-BUTYLBENZENE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				STYRENE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				TERT-BUTYLBENZENE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				TETRACHLOROETHENE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				TOLUENE	.036	mg/kg		Y Y P						CN02NS	16:22
				TRANS-1,2-DICHLOROETHENE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				TRANS-1,3-DICHLOROPROPENE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				TRICHLOROETHENE	.0057	mg/kg	U	N Y U	U					CN02NS	16:22
				TRICHLOROFLUOROMETHANE	.011	mg/kg	U	N Y U	U					CN02NS	16:22
				VINYL CHLORIDE	.011	mg/kg	U	N Y U	U					CN02NS	16:22
	SW8260	SW5030	N 1 1	ACETONE	1.6	mg/kg	D	Y Y P	J	04A	05A			CN02NS	14:05
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				1,2-DICHLOROBENZENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				1,3-DICHLOROBENZENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				1,4-DICHLOROBENZENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				2,2'-OXYBIS(1-CHLOROPROPANE)	.37	mg/kg	U	N Y U	UJ	05B				CN02NS	23:34
				2,4,5-TRICHLOROPHENOL	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				2,4,6-TRICHLOROPHENOL	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				2,4-DICHLOROPHENOL	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				2,4-DIMETHYLPHENOL	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				2,4-DINITROPHENOL	1.8	mg/kg	U	N Y U	U					CN02NS	23:34
				2,4-DINITROTOLUENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				2,6-DINITROTOLUENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				2-CHLORONAPHTHALENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				2-CHLOROPHENOL	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				2-METHYLNAPHTHALENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				2-METHYLPHENOL	.37	mg/kg	U	N Y U	U					CN02NS	23:34

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0007	SW8270	SW3550	N 0 1	2-NITROANILINE	1.8	mg/kg	U	N Y U	U					CN02NS	23:34
				2-NITROPHENOL	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				3,3'-DICHLOROBENZIDINE	1.8	mg/kg	U	N Y U	U					CN02NS	23:34
				3-NITROANILINE	1.8	mg/kg	U	N Y U	U					CN02NS	23:34
				4,6-DINITRO-2-METHYLPHENOL	1.8	mg/kg	U	N Y U	U					CN02NS	23:34
				4-BROMOPHENYL PHENYL ETHER	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				4-CHLORO-3-METHYLPHENOL	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				4-CHLOROANILINE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				4-CHLOROPHENYL PHENYL ETHER	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				4-METHYLPHENOL	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				4-NITROANILINE	1.8	mg/kg	U	N Y U	U					CN02NS	23:34
				4-NITROPHENOL	1.8	mg/kg	U	N Y U	UJ	05B				CN02NS	23:34
				ACENAPHTHENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				ACENAPHTHYLENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				ANTHRACENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				BENZ(A)ANTHRACENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				BENZO(A)PYRENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				BENZO(B)FLUORANTHENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				BENZO(GHI)PERYLENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				BENZO(K)FLUORANTHENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				BIS(2-CHLOROETHOXY)METHANE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				BIS(2-CHLOROETHYL) ETHER	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				BIS(2-ETHYLHEXYL) PHTHALATE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				BUTYL BENZYL PHTHALATE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				CARBAZOLE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				CHRYSENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				DI-N-BUTYL PHTHALATE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				DI-N-OCTYL PHTHALATE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				DIBENZ(A,H)ANTHRACENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				DIBENZOFURAN	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				DIETHYL PHTHALATE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				DIMETHYL PHTHALATE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				FLUORANTHENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				FLUORENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				HEXACHLOROBENZENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				HEXACHLOROBUTADIENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				HEXACHLOROCYCLOPENTADIENE	1.8	mg/kg	U	N Y U	U					CN02NS	23:34
				HEXACHLOROETHANE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				INDENO(1,2,3-CD)PYRENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				ISOPHORONE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				N-NITROSODI-N-PROPYLAMINE	.37	mg/kg	U	N Y U	UJ	05B				CN02NS	23:34
				N-NITROSODIPHENYLAMINE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				NAPHTHALENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34
				NITROBENZENE	.37	mg/kg	U	N Y U	U					CN02NS	23:34

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0007	SW8270	SW3550	N	0	1	PENTACHLOROPHENOL	1.8	mg/kg	U	N	Y	U	U					CN02NS	23:34
						PHENANTHRENE	.37	mg/kg	U	N	Y	U	U					CN02NS	23:34
						PHENOL	.37	mg/kg	U	N	Y	U	U					CN02NS	23:34
						PYRENE	.37	mg/kg	U	N	Y	U	U					CN02NS	23:34
DT0008	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CN02PS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	13300	mg/kg		Y	Y	P						CN02PS	15:56
						ANTIMONY	7.0	mg/kg	U	N	Y	U	U					CN02PS	15:56
						BARIUM	43.0	mg/kg		Y	Y	P						CN02PS	15:56
						BERYLLIUM	0.58	mg/kg	U	N	Y	U	U					CN02PS	15:56
						CADMIUM	0.58	mg/kg	U	N	Y	U	U					CN02PS	15:56
						CALCIUM	580	mg/kg	U	N	Y	U	R	08A				CN02PS	15:56
						CHROMIUM	48.3	mg/kg		Y	Y	P	J	08A				CN02PS	15:56
						COBALT	6.0	mg/kg		Y	Y	P	J	05B				CN02PS	15:56
						COPPER	11.6	mg/kg		Y	Y	P						CN02PS	15:56
						IRON	35700	mg/kg		Y	Y	P						CN02PS	15:56
						MAGNESIUM	580	mg/kg	U	N	Y	U	UJ	08A				CN02PS	15:56
						MANGANESE	139	mg/kg		Y	Y	P						CN02PS	15:56
						NICKEL	6.4	mg/kg		Y	Y	P						CN02PS	15:56
						POTASSIUM	580	mg/kg	U	N	Y	U	U					CN02PS	15:56
						SILVER	1.2	mg/kg	U	N	Y	U	U					CN02PS	15:56
						SODIUM	580	mg/kg	U	N	Y	U	U					CN02PS	15:56
						VANADIUM	38.2	mg/kg		Y	Y	P						CN02PS	15:56
						ZINC	18.4	mg/kg		Y	Y	F	B	06C				CN02PS	15:56
	SW6010	SW3050	N	1	1	ARSENIC	8.1	mg/kg		Y	Y	P	J	13				CN02PS	00:52
						LEAD	12.3	mg/kg		Y	Y	P						CN02PS	00:52
						SELENIUM	0.58	mg/kg	U	N	Y	U	U					CN02PS	00:52
						THALLIUM	1.2	mg/kg	U	N	Y	U	U					CN02PS	00:52
	SW7471	TOTAL	N	0	1	MERCURY	0.15	mg/kg		Y	Y	P						CN02PS	18:01
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47
						1,1,1-TRICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47
						1,1,2,2-TETRACHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47
						1,1,2-TRICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47
						1,1-DICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47
						1,1-DICHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47
						1,1-DICHLOROPROPENE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47
						1,2,3-TRICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	UJ	05B				CN02PS	16:47
						1,2,3-TRICHLOROPROPANE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47
						1,2,4-TRICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47
						1,2,4-TRIMETHYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47
						1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N	Y	U	U					CN02PS	16:47
						1,2-DIBROMOETHANE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47
						1,2-DICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47
						1,2-DICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0008	SW8260	SW5030	N 0 1	1,2-DICHLOROPROPANE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				1,3,5-TRIMETHYLBENZENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				1,3-DICHLOROBENZENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				1,3-DICHLOROPROPANE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				1,4-DICHLOROBENZENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				2,2-DICHLOROPROPANE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				2-BUTANONE	.023	mg/kg	U	N Y U	R	04A	05A			CN02PS	16:47
				2-CHLOROTOLUENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				2-HEXANONE	.023	mg/kg	U	N Y U	UJ	05B				CN02PS	16:47
				4-CHLOROTOLUENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				4-METHYL-2-PENTANONE	.023	mg/kg	U	N Y U	UJ	05B				CN02PS	16:47
				ACETONE	.26	mg/kg	B	Y Y P	J	04A	05A			CN02PS	16:47
				BENZENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				BROMOBENZENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				BROMOCHLOROMETHANE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				BROMODICHLOROMETHANE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				BROMOFORM	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				BROMOMETHANE	.012	mg/kg	U	N Y U	R	04A	04B	05A		CN02PS	16:47
				CARBON DISULFIDE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				CARBON TETRACHLORIDE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				CHLOROBENZENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				CHLORODIBROMOMETHANE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				CHLOROETHANE	.012	mg/kg	U	N Y U	U					CN02PS	16:47
				CHLOROFORM	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				CHLOROMETHANE	.012	mg/kg	U	N Y U	U					CN02PS	16:47
				CIS-1,2-DICHLOROETHENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				CIS-1,3-DICHLOROPROPENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				DIBROMOMETHANE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N Y U	U					CN02PS	16:47
				ETHYLBENZENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				HEXACHLOROBUTADIENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				ISOPROPYLBENZENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				M-XYLENE & P-XYLENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				METHYLENE CHLORIDE	.0094	mg/kg	B	Y Y F	B	06A				CN02PS	16:47
				N-BUTYLBENZENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				N-PROPYLBENZENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				NAPHTHALENE	.0058	mg/kg	U	N Y U	UJ	05B				CN02PS	16:47
				O-XYLENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				P-ISOPROPYLTOLUENE	.0047	mg/kg	J	Y Y P	J	15				CN02PS	16:47
				SEC-BUTYLBENZENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				STYRENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				TERT-BUTYLBENZENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				TETRACHLOROETHENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47
				TOLUENE	.0058	mg/kg	U	N Y U	U					CN02PS	16:47

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0008	SW8260	SW5030	N	0	1	TRANS-1,2-DICHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47
						TRANS-1,3-DICHLOROPROPENE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47
						TRICHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CN02PS	16:47
						TRICHLOROFLUOROMETHANE	.0047	mg/kg	J	Y	Y	P	J	15				CN02PS	16:47
						VINYL CHLORIDE	.012	mg/kg	U	N	Y	U	U					CN02PS	16:47
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						1,2-DICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						1,3-DICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						1,4-DICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						2,2'-OXYBIS(1-CHLOROPROPANE)	.38	mg/kg	U	N	Y	U	UJ	05B				CN02PS	00:14
						2,4,5-TRICHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						2,4,6-TRICHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						2,4-DICHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						2,4-DIMETHYLPHENOL	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						2,4-DINITROPHENOL	1.9	mg/kg	U	N	Y	U	U					CN02PS	00:14
						2,4-DINITROTOLUENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						2,6-DINITROTOLUENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						2-CHLORONAPHTHALENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						2-CHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						2-METHYLNAPHTHALENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						2-METHYLPHENOL	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						2-NITROANILINE	1.9	mg/kg	U	N	Y	U	U					CN02PS	00:14
						2-NITROPHENOL	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						3,3'-DICHLOROBENZIDINE	1.9	mg/kg	U	N	Y	U	U					CN02PS	00:14
						3-NITROANILINE	1.9	mg/kg	U	N	Y	U	U					CN02PS	00:14
						4,6-DINITRO-2-METHYLPHENOL	1.9	mg/kg	U	N	Y	U	U					CN02PS	00:14
						4-BROMOPHENYL PHENYL ETHER	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						4-CHLORO-3-METHYLPHENOL	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						4-CHLOROANILINE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						4-CHLOROPHENYL PHENYL ETHER	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						4-METHYLPHENOL	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						4-NITROANILINE	1.9	mg/kg	U	N	Y	U	U					CN02PS	00:14
						4-NITROPHENOL	1.9	mg/kg	U	N	Y	U	UJ	05B				CN02PS	00:14
						ACENAPHTHENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						ACENAPHTHYLENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						ANTHRACENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						BENZ(A)ANTHRACENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						BENZO(A)PYRENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						BENZO(B)FLUORANTHENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						BENZO(GHI)PERYLENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						BENZO(K)FLUORANTHENE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						BIS(2-CHLOROETHOXY)METHANE	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14
						BIS(2-CHLOROETHYL) ETHER	.38	mg/kg	U	N	Y	U	U					CN02PS	00:14

Validation Qualifier Data Entry Verification

Run Date: January 19, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1 2 3 4	Lab Sample:	Analysis Time:
DT0008	SW8270	SW3550	N 0 1	BIS(2-ETHYLHEXYL) PHTHALATE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				BUTYL BENZYL PHTHALATE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				CARBAZOLE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				CHRYSENE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				DI-N-BUTYL PHTHALATE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				DI-N-OCTYL PHTHALATE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				DIBENZ(A,H)ANTHRACENE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				DIBENZOFURAN	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				DIETHYL PHTHALATE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				DIMETHYL PHTHALATE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				FLUORANTHENE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				FLUORENE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				HEXACHLOROBENZENE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				HEXACHLOROBUTADIENE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				HEXACHLOROCYCLOPENTADIENE	1.9	mg/kg	U	N Y U	U		CN02PS	00:14
				HEXACHLOROETHANE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				INDENO(1,2,3-CD)PYRENE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				ISOPHORONE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				N-NITROSODI-N-PROPYLAMINE	.38	mg/kg	U	N Y U	UJ	05B	CN02PS	00:14
				N-NITROSODIPHENYLAMINE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				NAPHTHALENE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				NITROBENZENE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				PENTACHLOROPHENOL	1.9	mg/kg	U	N Y U	U		CN02PS	00:14
				PHENANTHRENE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				PHENOL	.38	mg/kg	U	N Y U	U		CN02PS	00:14
				PYRENE	.38	mg/kg	U	N Y U	U		CN02PS	00:14
DT0009	D2216	NONE	N 0 1	PERCENT MOISTURE				Y Y P			CN02QS	00:00
	SW6010	SW3050	N 0 1	ALUMINUM	4900	mg/kg		Y Y P			CN02QS	16:01
				ANTIMONY	6.6	mg/kg	U	N Y U	U		CN02QS	16:01
				BARIUM	28.4	mg/kg		Y Y P			CN02QS	16:01
				BERYLLIUM	0.55	mg/kg	U	N Y U	U		CN02QS	16:01
				CADMIUM	0.55	mg/kg	U	N Y U	U		CN02QS	16:01
				CALCIUM	546	mg/kg	U	N Y U	R	08A	CN02QS	16:01
				CHROMIUM	49.6	mg/kg		Y Y P	J	08A	CN02QS	16:01
				COBALT	5.5	mg/kg	U	N Y U	UJ	05B	CN02QS	16:01
				COPPER	5.8	mg/kg		Y Y P			CN02QS	16:01
				IRON	16600	mg/kg		Y Y P			CN02QS	16:01
				MAGNESIUM	546	mg/kg	U	N Y U	UJ	08A	CN02QS	16:01
				MANGANESE	117	mg/kg		Y Y P			CN02QS	16:01
				NICKEL	4.4	mg/kg	U	N Y U	U		CN02QS	16:01
				POTASSIUM	546	mg/kg	U	N Y U	U		CN02QS	16:01
				SILVER	1.1	mg/kg	U	N Y U	U		CN02QS	16:01
				SODIUM	546	mg/kg	U	N Y U	U		CN02QS	16:01

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0009	SW6010	SW3050	N	0	1	VANADIUM	16.5	mg/kg		Y	Y	P						CN02QS	16:01
						ZINC	24.2	mg/kg		Y	Y	F	B	06C				CN02QS	16:01
	SW6010	SW3050	N	1	1	ARSENIC	3.7	mg/kg		Y	Y	P	J	13				CN02QS	00:57
						LEAD	9.2	mg/kg		Y	Y	P						CN02QS	00:57
						SELENIUM	0.74	mg/kg		Y	Y	P						CN02QS	00:57
						THALLIUM	1.1	mg/kg	U	N	Y	U	U					CN02QS	00:57
	SW7471	TOTAL	N	0	1	MERCURY	0.036	mg/kg		Y	Y	P						CN02QS	18:03
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						1,1,1-TRICHLOROETHANE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						1,1,2,2-TETRACHLOROETHANE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						1,1,2-TRICHLOROETHANE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						1,1-DICHLOROETHANE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						1,1-DICHLOROETHENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						1,1-DICHLOROPROPENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						1,2,3-TRICHLOROBENZENE	.0055	mg/kg	U	N	Y	U	UJ	05B	10A			CN02QS	17:12
						1,2,3-TRICHLOROPROPANE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						1,2,4-TRICHLOROBENZENE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						1,2,4-TRIMETHYLBENZENE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						1,2-DIBROMO-3-CHLOROPROPANE	.011	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						1,2-DIBROMOETHANE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						1,2-DICHLOROBENZENE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						1,2-DICHLOROETHANE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						1,2-DICHLOROPROPANE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						1,3,5-TRIMETHYLBENZENE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						1,3-DICHLOROBENZENE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						1,3-DICHLOROPROPANE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						1,4-DICHLOROBENZENE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						2,2-DICHLOROPROPANE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						2-BUTANONE	.0028	mg/kg	J	Y	Y	P	J	04A	05A			CN02QS	17:12
						2-CHLOROTOLUENE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						2-HEXANONE	.022	mg/kg	U	N	Y	U	UJ	05B				CN02QS	17:12
						4-CHLOROTOLUENE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						4-METHYL-2-PENTANONE	.022	mg/kg	U	N	Y	U	UJ	05B				CN02QS	17:12
						ACETONE	.16	mg/kg	B	Y	Y	P	J	04A	05A			CN02QS	17:12
						BENZENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						BROMOBENZENE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						BROMOCHLOROMETHANE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						BROMODICHLOROMETHANE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						BROMOFORM	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						BROMOMETHANE	.011	mg/kg	U	N	Y	U	R	04A	04B	05A		CN02QS	17:12
						CARBON DISULFIDE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						CARBON TETRACHLORIDE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						CHLOROBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12

Validation Qualifier Data Entry Verification

Run Date: January 19, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0009	SW8260	SW5030	N	0	1	CHLORODIBROMOMETHANE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						CHLOROETHANE	.011	mg/kg	U	N	Y	U	U					CN02QS	17:12
						CHLOROFORM	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						CHLOROMETHANE	.011	mg/kg	U	N	Y	U	U					CN02QS	17:12
						CIS-1,2-DICHLOROETHENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						CIS-1,3-DICHLOROPROPENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						DIBROMOMETHANE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						DICHLORODIFLUOROMETHANE	.011	mg/kg	U	N	Y	U	U					CN02QS	17:12
						ETHYLBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						HEXACHLOROBUTADIENE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						ISOPROPYLBENZENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						M-XYLENE & P-XYLENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						METHYLENE CHLORIDE	.0036	mg/kg	J B	Y	Y	F	B	06A	15			CN02QS	17:12
						N-BUTYLBENZENE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						N-PROPYLBENZENE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						NAPHTHALENE	.0055	mg/kg	U	N	Y	U	UJ	05B	10A			CN02QS	17:12
						O-XYLENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						P-ISOPROPYLTOLUENE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						SEC-BUTYLBENZENE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						STYRENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						TERT-BUTYLBENZENE	.0055	mg/kg	U	N	Y	U	UJ	10A				CN02QS	17:12
						TETRACHLOROETHENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						TOLUENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						TRANS-1,2-DICHLOROETHENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						TRANS-1,3-DICHLOROPROPENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						TRICHLOROETHENE	.0055	mg/kg	U	N	Y	U	U					CN02QS	17:12
						TRICHLOROFLUOROMETHANE	.011	mg/kg	U	N	Y	U	U					CN02QS	17:12
						VINYL CHLORIDE	.011	mg/kg	U	N	Y	U	U					CN02QS	17:12
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						1,2-DICHLOROBENZENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						1,3-DICHLOROBENZENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						1,4-DICHLOROBENZENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						2,2'-OXYBIS(1-CHLOROPROPANE)	.36	mg/kg	U	N	Y	U	UJ	05B				CN02QS	00:54
						2,4,5-TRICHLOROPHENOL	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						2,4,6-TRICHLOROPHENOL	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						2,4-DICHLOROPHENOL	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						2,4-DIMETHYLPHENOL	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						2,4-DINITROPHENOL	1.7	mg/kg	U	N	Y	U	U					CN02QS	00:54
						2,4-DINITROTOLUENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						2,6-DINITROTOLUENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						2-CHLORONAPHTHALENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						2-CHLOROPHENOL	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						2-METHYLNAPHTHALENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0009	SW8270	SW3550	N	0	1	2-METHYLPHENOL	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						2-NITROANILINE	1.7	mg/kg	U	N	Y	U	U					CN02QS	00:54
						2-NITROPHENOL	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						3,3'-DICHLOROBENZIDINE	1.7	mg/kg	U	N	Y	U	U					CN02QS	00:54
						3-NITROANILINE	1.7	mg/kg	U	N	Y	U	U					CN02QS	00:54
						4,6-DINITRO-2-METHYLPHENOL	1.7	mg/kg	U	N	Y	U	U					CN02QS	00:54
						4-BROMOPHENYL PHENYL ETHER	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						4-CHLORO-3-METHYLPHENOL	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						4-CHLOROANILINE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						4-CHLOROPHENYL PHENYL ETHER	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						4-METHYLPHENOL	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						4-NITROANILINE	1.7	mg/kg	U	N	Y	U	U					CN02QS	00:54
						4-NITROPHENOL	1.7	mg/kg	U	N	Y	U	UJ	05B				CN02QS	00:54
						ACENAPHTHENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						ACENAPHTHYLENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						ANTHRACENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						BENZ(A)ANTHRACENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						BENZO(A)PYRENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						BENZO(B)FLUORANTHENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						BENZO(GHI)PERYLENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						BENZO(K)FLUORANTHENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						BIS(2-CHLOROETHOXY)METHANE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						BIS(2-CHLOROETHYL) ETHER	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						BIS(2-ETHYLHEXYL) PHTHALATE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						BUTYL BENZYL PHTHALATE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						CARBAZOLE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						CHRYSENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						DI-N-BUTYL PHTHALATE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						DI-N-OCTYL PHTHALATE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						DIBENZ(A,H)ANTHRACENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						DIBENZOFURAN	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						DIETHYL PHTHALATE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						DIMETHYL PHTHALATE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						FLUORANTHENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						FLUORENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						HEXACHLOROBENZENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						HEXACHLOROBUTADIENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						HEXACHLOROCYCLOPENTADIENE	1.7	mg/kg	U	N	Y	U	U					CN02QS	00:54
						HEXACHLOROETHANE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						INDENO(1,2,3-CD)PYRENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						ISOPHORONE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						N-NITROSODI-N-PROPYLAMINE	.36	mg/kg	U	N	Y	U	UJ	05B				CN02QS	00:54
						N-NITROSODIPHENYLAMINE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						NAPHTHALENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54

Validation Qualifier Data Entry Verification
Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0009	SW8270	SW3550	N	0	1	NITROBENZENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						PENTACHLOROPHENOL	1.7	mg/kg	U	N	Y	U	U					CN02QS	00:54
						PHENANTHRENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						PHENOL	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
						PYRENE	.36	mg/kg	U	N	Y	U	U					CN02QS	00:54
DT0010	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CN02RS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	10700	mg/kg		Y	Y	P						CN02RS	16:06
						ANTIMONY	6.9	mg/kg	U	N	Y	U	U					CN02RS	16:06
						BARIUM	23.1	mg/kg	U	N	Y	U	U					CN02RS	16:06
						BERYLLIUM	0.58	mg/kg	U	N	Y	U	U					CN02RS	16:06
						CADMIUM	0.58	mg/kg	U	N	Y	U	U					CN02RS	16:06
						CALCIUM	577	mg/kg	U	N	Y	U	R	08A				CN02RS	16:06
						CHROMIUM	23.2	mg/kg		Y	Y	P	J	08A				CN02RS	16:06
						COBALT	5.8	mg/kg	U	N	Y	U	UJ	05B				CN02RS	16:06
						COPPER	9.1	mg/kg		Y	Y	P						CN02RS	16:06
						IRON	28500	mg/kg		Y	Y	P						CN02RS	16:06
						MAGNESIUM	577	mg/kg	U	N	Y	U	UJ	08A				CN02RS	16:06
						MANGANESE	23.0	mg/kg		Y	Y	P						CN02RS	16:06
						NICKEL	4.6	mg/kg	U	N	Y	U	U					CN02RS	16:06
						POTASSIUM	577	mg/kg	U	N	Y	U	U					CN02RS	16:06
						SILVER	1.2	mg/kg	U	N	Y	U	U					CN02RS	16:06
						SODIUM	577	mg/kg	U	N	Y	U	U					CN02RS	16:06
						VANADIUM	18.9	mg/kg		Y	Y	P						CN02RS	16:06
						ZINC	11.0	mg/kg		Y	Y	F	B	06C				CN02RS	16:06
	SW6010	SW3050	N	1	1	ARSENIC	5.4	mg/kg		Y	Y	P	J	13				CN02RS	01:03
						LEAD	7.3	mg/kg		Y	Y	P						CN02RS	01:03
						SELENIUM	0.66	mg/kg		Y	Y	P						CN02RS	01:03
						THALLIUM	1.2	mg/kg	U	N	Y	U	U					CN02RS	01:03
	SW7471	TOTAL	N	0	1	MERCURY	0.041	mg/kg		Y	Y	P						CN02RS	18:05
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
						1,1,1-TRICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
						1,1,2,2-TETRACHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
						1,1,2-TRICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
						1,1-DICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
						1,1-DICHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
						1,1-DICHLOROPROPENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
						1,2,3-TRICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	UJ	05B				CN02RS	17:37
						1,2,3-TRICHLOROPROPANE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
						1,2,4-TRICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
						1,2,4-TRIMETHYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
						1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N	Y	U	U					CN02RS	17:37
						1,2-DIBROMOETHANE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
						1,2-DICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0010	SW8260	SW5030	N 0 1	1,2-DICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				1,2-DICHLOROPROPANE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				1,3,5-TRIMETHYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				1,3-DICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				1,3-DICHLOROPROPANE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				1,4-DICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				2,2-DICHLOROPROPANE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				2-BUTANONE	.023	mg/kg	U	N	Y	U	R	04A	04B	05A		CN02RS	17:37
				2-CHLOROTOLUENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				2-HEXANONE	.023	mg/kg	U	N	Y	U	UJ	05B				CN02RS	17:37
				4-CHLOROTOLUENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				4-METHYL-2-PENTANONE	.023	mg/kg	U	N	Y	U	UJ	05B				CN02RS	17:37
				ACETONE	.11	mg/kg	B	Y	Y	P	J	04A	05A			CN02RS	17:37
				BENZENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				BROMOBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				BROMOCHLOROMETHANE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				BROMODICHLOROMETHANE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				BROMOFORM	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				BROMOMETHANE	.012	mg/kg	U	N	Y	U	R	04A	04B	05A		CN02RS	17:37
				CARBON DISULFIDE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				CARBON TETRACHLORIDE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				CHLOROBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				CHLORODIBROMOMETHANE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				CHLOROETHANE	.012	mg/kg	U	N	Y	U	U					CN02RS	17:37
				CHLOROFORM	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				CHLOROMETHANE	.012	mg/kg	U	N	Y	U	U					CN02RS	17:37
				CIS-1,2-DICHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				CIS-1,3-DICHLOROPROPENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				DIBROMOMETHANE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N	Y	U	U					CN02RS	17:37
				ETHYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				HEXACHLOROBUTADIENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				ISOPROPYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				M-XYLENE & P-XYLENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				METHYLENE CHLORIDE	.0032	mg/kg	J B	Y	Y	F	B	06A	15			CN02RS	17:37
				N-BUTYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				N-PROPYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				NAPHTHALENE	.0058	mg/kg	U	N	Y	U	UJ	05B				CN02RS	17:37
				O-XYLENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				P-ISOPROPYLTOLUENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				SEC-BUTYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				STYRENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				TERT-BUTYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37
				TETRACHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CN02RS	17:37

Validation Qualifier Data Entry Verification
Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0010	SW8260	SW5030	N 0 1	TOLUENE	.0058	mg/kg	U	N Y U	U					CN02RS	17:37
				TRANS-1,2-DICHLOROETHENE	.0058	mg/kg	U	N Y U	U					CN02RS	17:37
				TRANS-1,3-DICHLOROPROPENE	.0058	mg/kg	U	N Y U	U					CN02RS	17:37
				TRICHLOROETHENE	.0058	mg/kg	U	N Y U	U					CN02RS	17:37
				TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N Y U	U					CN02RS	17:37
				VINYL CHLORIDE	.012	mg/kg	U	N Y U	U					CN02RS	17:37
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				1,2-DICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				1,3-DICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				1,4-DICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				2,2'-OXYBIS(1-CHLOROPROPANE)	.38	mg/kg	U	N Y U	UJ	05				CN02RS	01:33
				2,4,5-TRICHLOROPHENOL	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				2,4,6-TRICHLOROPHENOL	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				2,4-DICHLOROPHENOL	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				2,4-DIMETHYLPHENOL	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				2,4-DINITROPHENOL	1.8	mg/kg	U	N Y U	U					CN02RS	01:33
				2,4-DINITROTOLUENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				2,6-DINITROTOLUENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				2-CHLORONAPHTHALENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				2-CHLOROPHENOL	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				2-METHYLNAPHTHALENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				2-METHYLPHENOL	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				2-NITROANILINE	1.8	mg/kg	U	N Y U	U					CN02RS	01:33
				2-NITROPHENOL	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				3,3'-DICHLOROBENZIDINE	1.8	mg/kg	U	N Y U	U					CN02RS	01:33
				3-NITROANILINE	1.8	mg/kg	U	N Y U	U					CN02RS	01:33
				4,6-DINITRO-2-METHYLPHENOL	1.8	mg/kg	U	N Y U	U					CN02RS	01:33
				4-BROMOPHENYL PHENYL ETHER	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				4-CHLORO-3-METHYLPHENOL	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				4-CHLOROANILINE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				4-CHLOROPHENYL PHENYL ETHER	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				4-METHYLPHENOL	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				4-NITROANILINE	1.8	mg/kg	U	N Y U	U					CN02RS	01:33
				4-NITROPHENOL	1.8	mg/kg	U	N Y U	UJ	05B				CN02RS	01:33
				ACENAPHTHENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				ACENAPHTHYLENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				ANTHRACENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				BENZ(A)ANTHRACENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				BENZO(A)PYRENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				BENZO(B)FLUORANTHENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				BENZO(GHI)PERYLENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				BENZO(K)FLUORANTHENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				BIS(2-CHLOROETHOXY)METHANE	.38	mg/kg	U	N Y U	U					CN02RS	01:33

Validation Qualifier Data Entry Verification

Fort McClellan

Run Date: January 19, 2001

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
DT0010	SW8270	SW3550	N 0 1	BIS(2-CHLOROETHYL) ETHER	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				BIS(2-ETHYLHEXYL) PHTHALATE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				BUTYL BENZYL PHTHALATE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				CARBAZOLE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				CHRYSENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				DI-N-BUTYL PHTHALATE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				DI-N-OCTYL PHTHALATE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				DIBENZ(A,H)ANTHRACENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				DIBENZOFURAN	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				DIETHYL PHTHALATE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				DIMETHYL PHTHALATE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				FLUORANTHENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				FLUORENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				HEXACHLOROBENZENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				HEXACHLOROBUTADIENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				HEXACHLOROCYCLOPENTADIENE	1.8	mg/kg	U	N Y U	U					CN02RS	01:33
				HEXACHLOROETHANE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				INDENO(1,2,3-CD)PYRENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				ISOPHORONE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				N-NITROSODI-N-PROPYLAMINE	.38	mg/kg	U	N Y U	UJ	05B				CN02RS	01:33
				N-NITROSODIPHENYLAMINE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				NAPHTHALENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				NITROBENZENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				PENTACHLOROPHENOL	1.8	mg/kg	U	N Y U	U					CN02RS	01:33
				PHENANTHRENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				PHENOL	.38	mg/kg	U	N Y U	U					CN02RS	01:33
				PYRENE	.38	mg/kg	U	N Y U	U					CN02RS	01:33

APPENDIX F

SUMMARY STATISTICS FOR BACKGROUND MEDIA
FORT MCCLELLAN, ALABAMA

Table 4-12. Summary Statistics for Surface Soil (0 -1 BLS)
Fort McClellan, Alabama

Run Time: 8:18:07 AM

Run Date: 7/10/98

Exposure Unit: SS

Parameter	Units	Total Number of Samples	Total Number of Detects	Frequency of Detection	NonDetects Min CRL	NonDetects Max CRL	Detects Minimum	Detects Maximum	Arithmetic Mean[a]	Standard Deviation[a]	Distribution[b]	95% UCL of Arith. Mean[a]	Exposure Point Concentration[c]		2x Arithmetic Mean[a]
Aluminum	ug/g	70	70	100%	- -	- -	2,400	39,900	8,153.00	6,095	Lognormal	11,187	11,187		16,306
Antimony	ug/g	69	47	68%	0.082	7.1	0.11	2.6	0.99	1.3	Lognormal	3.4	2.6	#	1.99
Arsenic	ug/g	66	66	100%	- -	- -	0.82	49	6.86	8.0	Lognormal	13	13		13.73
Barium	ug/g	70	70	100%	- -	- -	11	288	61.97	54	Lognormal	99	99		123.94
Beryllium	ug/g	54	54	100%	- -	- -	0.062	0.87	0.40	0.22	Lognormal	0.61	0.61		0.80
Cadmium	ug/g	70	45	64%	0.016	1.2	0.024	0.21	0.14	0.16	Lognormal	0.36	0.21	#	0.29
Calcium	ug/g	70	66	94%	75	100	63	17,900	861.37	2,265	Lognormal	1,942	1,942		1,723
Chromium	ug/g	70	70	100%	- -	- -	2.0	134	18.52	20	Lognormal	31	31		37.04
Cobalt	ug/g	70	68	97%	1.4	1.4	0.39	71	7.57	12	Lognormal	18	18		15.15
Copper	ug/g	70	69	99%	0.50	0.50	1.3	24	6.36	4.4	Lognormal	11	11		12.71
Iron	ug/g	70	70	100%	- -	- -	2,510	56,300	17,076.86	11,577	Lognormal	27,000	27,000		34,154
Lead	ug/g	70	70	100%	- -	- -	2.9	83	20.02	15	Lognormal	33	33		40.05
Magnesium	ug/g	70	70	100%	- -	- -	60	9,600	516.49	1,266	Lognormal	768	768		1,033
Manganese	ug/g	70	70	100%	- -	- -	8.0	6,850	789.46	1,192	Lognormal	3,183	3,183		1,579
Mercury	ug/g	70	23	33%	0.023	0.050	0.031	0.32	0.04	0.046	Lognormal	0.058	0.058		0.08
Nickel	ug/g	70	56	80%	1.6	2.3	1.8	22	5.17	4.2	Lognormal	9.7	9.7		10.33
Potassium	ug/g	70	60	86%	82	116	104	6,010	399.88	946	Lognormal	607	607		799.76
Selenium	ug/g	70	1	1%	0.25	0.58	1.3	1.3	0.24	0.14	Lognormal	0.29	0.29		0.48
Silver	ug/g	70	42	60%	0.016	0.80	0.019	1.9	0.18	0.34	Lognormal	0.70	0.70		0.36
Sodium	ug/g	70	66	94%	39	39	76	563	317.14	98	Lognormal	562	562		634.28
Thallium	ug/g	68	55	81%	6.6	6.6	0.015	34	1.71	5.9	Lognormal	12	12		3.43
Vanadium	ug/g	70	70	100%	- -	- -	4.7	158	29.42	26	Lognormal	48	48		58.84
Zinc	ug/g	70	64	91%	4.9	11	4.6	209	20.32	26	Lognormal	35	35		40.64

[a]Results of duplicate analyses were averaged and nondetects were treated as one-half the detection limit in the calculation of the arithmetic mean, standard deviation, and 95% UCL.

[b]For the calculation of exposure point concentrations (EPCs):

If fewer than four samples are available, or the standard deviation of the data set is zero, the distribution is undetermined.

If the probability plot correlation coefficient of the untransformed data is > or = to the critical value, the distribution is normal.

In all other cases, the distribution assumed for the EPC calculation was lognormal.

[c]The exposure point concentration (EPC) is the 95% upper confidence (UCL) of the arithmetic mean, unless the 95% UCL exceeds the maximum detected value. If the latter is true, the maximum detected value is substituted as the EPC(denoted by a "#" next to the EPC).

- - Parameter detected in all samples.

Table 4-13. Summary Statistics for Subsurface Soil (>1-10 feet BLS)
Fort McClellan, Alabama

Run Time: 8:18:07 AM
Run Date: 7/10/98
Exposure Unit: SD

Parameter	Units	Total Number of Samples	Total Number of Detects	Frequency of Detection	NonDetects Min CRL	NonDetects Max CRL	Detects Minimum	Detects Maximum	Arithmetic Mean[a]	Standard Deviation[a]	Distribution[b]	95% UCL of Arith. Mean[a]	Exposure Point Concentration[c]		2x Arithmetic Mean[a]
Aluminum	ug/g	64	64	100%	- -	- -	1,690	24,600	6,795.47	3,552	Lognormal	9,068	9,068		13,591
Antimony	ug/g	63	46	73%	0.079	7.1	0.082	0.99	0.65	0.98	Lognormal	1.8	0.99	#	1.31
Arsenic	ug/g	64	61	95%	0.25	0.45	0.77	38	9.15	9.7	Lognormal	36	36		18.30
Barium	ug/g	64	64	100%	- -	- -	4.1	4,500	116.81	562	Lognormal	161	161		233.62
Beryllium	ug/g	59	57	97%	0.051	0.053	0.041	2.0	0.43	0.43	Lognormal	0.94	0.94		0.86
Cadmium	ug/g	64	35	55%	0.015	1.2	0.020	1.3	0.11	0.21	Lognormal	0.30	0.30		0.22
Calcium	ug/g	64	44	69%	57	200	67	3,650	318.58	606	Lognormal	772	772		637.17
Chromium	ug/g	64	64	100%	- -	- -	5.5	55	19.13	11	Lognormal	27	27		38.25
Cobalt	ug/g	64	60	94%	0.23	1.4	0.26	96	8.77	16	Lognormal	34	34		17.54
Copper	ug/g	64	64	100%	- -	- -	1.3	61	9.72	9.1	Lognormal	16	16		19.43
Iron	ug/g	64	64	100%	- -	- -	4,840	48,000	22,408.44	10,436	Normal	24,586	24,586		44,817
Lead	ug/g	64	64	100%	- -	- -	0.96	500	19.27	61	Lognormal	27	27		38.53
Magnesium	ug/g	64	60	94%	100	200	35	5,940	383.12	885	Lognormal	638	638		766.24
Manganese	ug/g	64	63	98%	4.1	4.1	7.3	19,000	677.67	2,417	Lognormal	3,864	3,864		1,355
Mercury	ug/g	64	31	48%	0.022	0.050	0.022	0.12	0.03	0.025	Lognormal	0.053	0.053		0.07
Nickel	ug/g	64	51	80%	1.6	2.2	2.2	38	6.45	7.8	Lognormal	13	13		12.89
Potassium	ug/g	64	52	81%	75	110	98	6,150	355.37	774	Lognormal	660	660		710.74
Selenium	ug/g	64	1	2%	0.25	0.58	0.55	0.55	0.24	0.060	Lognormal	0.27	0.27		0.47
Silver	ug/g	64	40	63%	0.016	1.2	0.021	0.66	0.12	0.15	Lognormal	0.47	0.47		0.24
Sodium	ug/g	64	63	98%	39	39	203	643	351.05	118	Lognormal	471	471		702.10
Thallium	ug/g	63	55	87%	0.0090	6.6	0.0090	24	0.70	3.0	Lognormal	2.0	2.0		1.40
Vanadium	ug/g	64	64	100%	- -	- -	8.7	99	32.45	20	Lognormal	47	47		64.89
Zinc	ug/g	64	50	78%	4.0	8.0	5.6	89	17.43	17	Lognormal	39	39		34.86

[a]Results of duplicate analyses were averaged and nondetects were treated as one-half the detection limit in the calculation of the arithmetic mean, standard deviation, and 95% UCL.

[b]For the calculation of exposure point concentrations (EPCs):

If fewer than four samples are available, or the standard deviation of the data set is zero, the distribution is undetermined.

If the probability plot correlation coefficient of the untransformed data is > or = to the critical value, the distribution is normal.

In all other cases, the distribution assumed for the EPC calculation was lognormal.

[c]The exposure point concentration (EPC) is the 95% upper confidence (UCL) of the arithmetic mean, unless the 95% UCL exceeds the maximum detected value. If the latter is true, the maximum detected value is substituted as the EPC(denoted by a "#" next to the EPC).

- - Parameter detected in all samples.